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* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

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* License: Pending
* Project: https://maven.apache.org/wagon/
* Source: https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0

xz for java (1.8)

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1.9 ipaddr 2.2.0

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1.10 swagger-jaxrs2 2.1.0

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1.11 rocksdb 1.1.8

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1.13 glibc 2.27-3ubuntu1.3

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.18 tar 1.26 35.el7

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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  <url>https://github.com/jbossas/jboss-classfilewriter</url>

  <developers>
    <developer>
      <name>Stuart Douglas</name>
      <email>sdouglas@redhat.com</email>
    </developer>
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1.24 grep 2.20-3.el7
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dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
ext/PerlIO-via/*
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Julian Seward, jseward@bzip.org
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1.29 wildfly-elytron-http-basic 1.11.4.Final

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* /opt/ws_local/PERMITS_SQL/1094804692_1601319586.0/0/wildfly-elytron-http-basic-1-11-4-final-sources-jar/META-INF/maven/org.wildfly.security/wildfly-elytron-http-basic/pom.xml

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* /opt/ws_local/PERMITS_SQL/1094804692_1601319586.0/0/wildfly-elytron-http-basic-1-11-4-final-sources-
jar/org/wildfly/security/http/basic/WildFlyElytronHttpBasicProvider.java
*/

* /opt/ws_local/PERMITS_SQL/1094804692_1601319586.0/0/wildfly-elytron-http-basic-1-11-4-final-sources-
jar/org/wildfly/security/http/basic/BasicAuthenticationMechanism.java

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1.30 ironjacamar-jdbc 1.4.20.Final
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1.31 jackson-dataformat-yaml 2.9.8

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  jar/com/mastfrog/jackson/DurationSerializationMode.java
* /opt/cola/permits/1099676761_1602542728.14/0/jackson-2-6-0-sources-
  jar/com/mastfrog/jackson/LocaleJacksonConfigurer.java
* /opt/cola/permits/1099676761_1602542728.14/0/jackson-2-6-0-sources-
  jar/com/mastfrog/jackson/TimeSerializationMode.java
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* /opt/cola/permits/1099676761_1602542728.14/0/jackson-2-6-0-sources-jar/com/mastfrog/jackson/OptionalJavaUtilSerializer.java

1.33 json-c 0.13

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1.34 neo4j-label-index 4.1.7

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  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/FilteredMultimap.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/cache/LongAddables.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/DescendingMultiset.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ForwardingImmutableMap.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/TransformedListIterator.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/EmptyImmutableSortedMap.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
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  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/html/package-info.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/io/ByteSource.java
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  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/reflect/ClassPath.java
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jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/io/WriteMode.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/RegularImmutableAsList.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/ForwardingImmutableSet.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/TransformedIterator.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/AbstractMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/BinaryTreeTraverser.java

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/*
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collections/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collections/ImmutableSetMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Platform.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collections/SingletonImmutableList.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/escape/ArrayBasedCharEscaper.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableSortedMapMultimap.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableSortedMapMultimap.java

* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/RegularImmutableList.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/AbstractIndexedListIterator.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/CollectPreconditions.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/io/MultiReader.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/EmptyImmutableBiMap.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ImmutableEntry.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/FluentIterable.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/net/InetAddresses.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/primitives/package-info.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/AbstractIterator.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/AbstractMultimap.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/AbstractListMultimap.java
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Equivalence.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/hash/AbstractStreamingHashFunction.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/hash/Hashing.java
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* As of 2010/06/11, this method is identical to the (package private) hash
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  jar/com/google/common/collect/FilteredKeyMultimap.java
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  * org.eclipse.jetty.orbit:javax.security.auth.message
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
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- org.mortbay.jasper:apache-jsp
- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli
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- org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

- org.eclipse.jetty.toolchain:jetty-schemas

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jar/com/amazonaws/jmespath/JmesPathFilter.java
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1.54 slf4j-simple 1.7.30

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* /opt/cola/permits/110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/org/hibernate/validator/internal/util/privilegedactions/ConstructorInstance.java
* /opt/cola/permits/110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/org/hibernate/validator/cfg/defs/AssertTrueDef.java
* /opt/cola/permits/110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/org/hibernate/validator/internal/xml/mapping/ConstrainedParameterStaxBuilder.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/cfg/defs/LengthDef.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/cfg/defs/MaxDef.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/internal/util/privilegedactions/GetResolvedMemberMethods.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/Token.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForLocalDateTime.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForJapaneseDate.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/constraints/Mod11Check.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/cfg/context/CrossParameterConstraintMappingContext.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/cfg/GenericConstraintDef.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/engine/HibernateConstraintViolation.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveOrZeroValidatorForBigDecimal.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeOrZeroValidatorForNumber.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeOrZeroValidatorForInteger.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeValidatorForByte.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/internal/engine/ServiceLoaderBasedConstraintMappingContributor.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/internal/metadata/descriptor/GroupConversionDescriptorImpl.java
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  jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/TypeResolutionHelper.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/TypeVariables.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6.0.20-final-sources-2-
  jar/org/hibernate/validator/internal/engine/DefaultClockProvider.java
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* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validation/internal/constraintvalidators/bv/number/PositiveOrZeroValidatorForBigInteger.java
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* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validation/internal/engine/valueextraction/CharArrayValueExtractor.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validation/internal/engine/messageinterpolation/TermResolver.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validation/internal/metadata/aggregated/rule/ReturnValueMayOnlyBeMarkedOnceAsCascadedPerHierarchyLine.java
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* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validation/config/context/ParameterConstraintMappingContextImpl.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validation/config/context/MethodTarget.java
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* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernatevalidator/internal/engine/valueextraction/MapPropertyValueExtractor.java
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* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernatevalidator/internal/validationsources/BeanMetaDataImpl.java
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* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernatevalidator/internal/cfg/package-info.java
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* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernatevalidator/internal/engine/messageinterpolation/parser/TokenIterator.java

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* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/metadata/BeanMetaDataManager.java
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* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/spi/cfg/ConstraintMappingContributor.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/package-info.java
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Found in path(s):
*/opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/org/hibernate/validator/internal/util/TypeHelper.java

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*/

/**
 * A method-level constraint, that evaluates a script expression against the annotated method or constructor. This constraint can be used to implement validation routines that depend on several parameters of the annotated executable.
 *
 * Script expressions can be written in any scripting or expression language, for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a> compatible engine can be found on the classpath. To refer to a parameter within the scripting expression, use its name as obtained by the active <link java.validation.ParameterNameProvider>. By default, [@code arg0], [@code arg1] etc. will be used as parameter names.
 *
 * The following listing shows an example using the JavaScript engine which comes with the JDK:
Can be specified on any method or constructor.

* @author Gunnar Morling

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*/
/**
 * Retrieves constraint related meta data for the parameters of the given
 * executable.
 *
 * @param executable The executable of interest.
 * 
 * @return A list with parameter meta data for the given executable.
 */

Found in path(s):
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-
  jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

1.61 jackson-datatype-jdk8 2.9.10

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1.62 neo4j-lock 4.1.7

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1.67 jboss-jaxws-api-2-3-spec 2.0.0.Final
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1.72 artemis-hornetq-protocol 2.10.1

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----
include/GL/g1.h :

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include/GL/glxext.h
include/GL/wglxext.h :

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/**
* <p>Returns a [@link PermissionVerifier] with all the permissions associated with the given information.
* <p>Once returned, client code can use the [@link PermissionVerifier#implies(Permission)] to check if a given
* permission is granted or not
* to the given principal. Implementors must make sure that the returned collection is immutable.
* @param permissionMappable the object to which permissions can be mapped (must not be [@code null])
* @param roles a set of effective roles after all role mapping was applied by security domain (may be [@code null])
* @return a permission verifier (not [@code null])
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* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java

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*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/support/JdbcUtils.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/datasource/init/ScriptUtils.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/object/SqlFunction.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/core/JdbcTemplate.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/core/KeyHolder.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/object/RdbmsOperation.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/core/rowset/SqlRowSet.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/core/JdbcTemplate.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java
*/
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
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* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/core/rowset/SqlRowSet.java
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jar/org/springframework/jdbc/core/namedparam/ParsedSql.java
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jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
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jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
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* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/support/incrementer/AbstractIdentityColumnMaxValueIncrementer.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/ArgumentPreparedStatementSetter.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/object/StoredProcedure.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/UncategorizedSQLException.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/ObjectSpELSource.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/SqlReturnType.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/support/incrementer/Db2MainframeMaxValueIncrementer.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/ResultSetSupportingSqlParameter.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/SqlParameter.java
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* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterBatchUpdateUtils.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/IncorrectResultSetColumnCountException.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/datasource/AbstractDataSource.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/RowMapper.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java

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 */

/**
 * Strategy interface for translating between SQLException SQLExceptions
 * and Spring's data access strategy-agnostic DataAccessException
 * hierarchy.
 *
 * Implementations can be generic (for example, using
 * SQLState codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

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* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/ParameterDisposer.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/datasource/ScriptParseHelper.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/datasource/ScriptParseResult.java

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 */
/**
 * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
 * Will not need to do anything if using PreparedStatement's standard methods,
 * but might be necessary to free database resources if using proprietary means.
 * <p>&lt;b&gt;NOTE:&lt;/b&gt; Needs to be invoked after the involved PreparedStatements have
 * been executed or the affected O/R mapping sessions have been flushed.
 * Otherwise, the database resources for the temporary BLOBs might stay allocated.
 */

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jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
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* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/datasource/endpoint/ConnectionProperties.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/support/lob/LobCreator.java
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/**
 * The classes in this package make JDBC easier to use and
 * reduce the likelihood of common errors. In particular, they:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally
 * blocks in application code.
 * <li>Present exceptions to application code in a generic hierarchy of
 * unchecked exceptions, enabling applications to catch data access
 * exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* <li>Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
* </ul>

* <p>This package and related packages are discussed in Chapter 9 of
* a href="https://www.amazon.com/exec/obidos/tg/detail/-/0764543857/"&gt;Expert One-On-One J2EE Design and Development&lt;/a&gt;
* by Rod Johnson (Wrox, 2002).
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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con a JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @return a Map of input parameters, keyed by name (never [ @code null])
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* */

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  jar/org/springframework/jdbc/core/JdbcOperationsExtensions.kt
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
  jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
  jar/org/springframework/jdbc/datasource/init/ScriptStatementFailedException.java
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* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
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* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java

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--------------------------------------------------------------

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============================

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.116 jansi-native 1.6

1.117 neo4j-unsafe 4.1.7

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include/GL/gl.h:

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include/GL/glxext.h
include/GL/wglxext.h:

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1.132 certifi 2018.1.18

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
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Just configure this file as the SSLCACertificateFile.#

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1.134 resteasy-atom-provider 3.11.2.Final

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1.136 opensaml-profile-api 3.3.1

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* /
/**
* A set of interfaces for programmable models and their helper classes,
* many derived from Swagger Core library. These interfaces can be used to
* define OpenAPI document programmatically.
* The behaviour of methods inherited from java.lang.Object are undefined by the MicroProfile OpenAPI specification.

* Example:

```java
public class MyOASModelReaderImpl implements OASModelReader {

  @Override
  public OpenAPI buildModel() {
    return OASFactory.createObject(OpenAPI.class)
       .info(OASFactory.createObject(Info.class)
          .title("AirlinesRating App API")
          .version("1.0")
          .termsOfService("http://airlinesratingapp.com/terms")
          .contact(OASFactory.createObject(Contact.class)
             .name("AirlinesRating App Support")
             .url("http://exampleurl.com/contact")
             .email("techsupport[@ literal @]airlinesratingapp.com")
          )
          .license(OASFactory.createObject(License.class)
             .name("Apache 2.0")
             .url("http://www.apache.org/licenses/LICENSE-2.0.html")
          )
    }

} /*
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*/
/**
* A set of annotations to represent metadata about the API, including license information
* and contact information of the exposed API.
* <p>
* Example usage:
* <pre>
* {@literal @}ApplicationPath("/")
{
{@literal @}OpenAPIDefinition(
    info = {
        title="AirlinesRatingApp API",
        version = "1.0",
        termsOfService = "http://airlinesratingapp.com/terms",
        contact = {
            name = "AirlinesRatingApp API Support",
            url = "http://exampleurl.com/contact",
            email = "techsupport@airlinesratingapp.com"},
        license = {
            name = "Apache 2.0",
            url = "http://www.apache.org/licenses/LICENSE-2.0.html"})
    }
* </pre>
*/

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*/
/**
* A set of interfaces of programmable models to represent metadata about the API,
* including license information and contact information of the exposed API.
* <p>
* The behaviour of methods inherited from java.lang.Object are undefined by the MicroProfile OpenAPI
specification.
* <p>
* Example:
* public class MyOASModelReaderImpl implements OASModelReader {
*  
*  * @Override
*  public OpenAPI buildModel() {
*      return OASFactory.createObject(OpenAPI.class)
*          .info(OASFactory.createObject(Info.class)
*              .title("AirlinesRatingApp API")
*              .version("1.0")
*              .termsOfService("http://airlinesratingapp.com/terms")
*              .contact(OASFactory.createObject(Contact.class)
*                  .name("AirlinesRatingApp API Support")
*                  .url("http://exampleurl.com/contact")
*                  .email("techsupport[@literal @}airlinesratingapp.com")
*              .license(OASFactory.createObject(License.class)
*                  .name("Apache 2.0")
*                  .url("http://www.apache.org/licenses/LICENSE-2.0.html"))
*  }
*  }
* */

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jar/org/eclipse/microprofile/openapi/models/info/package-info.java
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* /opt/ws_local/PERMITS_SQL/1094802362_1601321305.29/0/microprofile-openapi-api-1-1-2-sources-
jar/org/eclipse/microprofile/openapi/models/servers/ServerVariables.java
1.138 transport-netty4-client 6.8.0

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*/

package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"

}
type Legal_RegulatedWorkload_Type struct {
    Entity

    Id `json:"id",omitempty` xmlrpc:"id,omitempty"

    KeyName `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

    Name `json:"name,omitempty" xmlrpc:"name,omitempty"
}

1.145 trousers 0.3.14

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1.146 compiler 0.9.3
1.147 hibernate 5.2.17.Final

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```java
private boolean confidential;

public ConfigProperty(String name, boolean dynamic, boolean confidential)
    this.confidential = confidential;

public boolean isConfidential() return confidential;

sb.append("confidential=\"\").append(confidential);
```
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*/

Found in path(s):
  */opt/ws_local/PERMITS_SQL/1045090092_1591099404.72/0/opensaml-xacml-saml-impl-3-3-1-sources-
  jar/org/opensaml/xacml/profile/saml/impl/XACMLAuthzDecisionQueryTypeMarshaller.java
  */opt/ws_local/PERMITS_SQL/1045090092_1591099404.72/0/opensaml-xacml-saml-impl-3-3-1-sources-
  jar/org/opensaml/xacml/profile/saml/impl/ReferencedPoliciesTypeMarshaller.java
  */opt/ws_local/PERMITS_SQL/1045090092_1591099404.72/0/opensaml-xacml-saml-impl-3-3-1-sources-
  jar/org/opensaml/xacml/profile/saml/impl/XACMLAuthzDecisionStatementTypeUnmarshaller.java
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  jar/org/opensaml/xacml/profile/saml/impl/ReferencedPoliciesTypeImpl.java
  */opt/ws_local/PERMITS_SQL/1045090092_1591099404.72/0/opensaml-xacml-saml-impl-3-3-1-sources-
  jar/org/opensaml/xacml/profile/saml/impl/XACMLPolicyStatementTypeUnmarshaller.java
  */opt/ws_local/PERMITS_SQL/1045090092_1591099404.72/0/opensaml-xacml-saml-impl-3-3-1-sources-
  jar/org/opensaml/xacml/profile/saml/impl/ReferencedPoliciesTypeImpl.java
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  jar/org/opensaml/xacml/profile/saml/impl/XACMLAuthzDecisionStatementTypeImplBuilder.java
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  jar/org/opensaml/xacml/profile/saml/impl/XACMLPolicyStatementTypeImpl.java
  */opt/ws_local/PERMITS_SQL/1045090092_1591099404.72/0/opensaml-xacml-saml-impl-3-3-1-sources-
  jar/org/opensaml/xacml/profile/saml/impl/XACMLAuthzDecisionQueryTypeImpl.java
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  */opt/ws_local/PERMITS_SQL/1045090092_1591099404.72/0/opensaml-xacml-saml-impl-3-3-1-sources-
  jar/org/opensaml/xacml/profile/saml/impl/package-info.java
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1.167 attr 2.4.48 4

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1.169 jackson-dataformat-smile 2.8.11

1.170 metrics 4.1.7
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## Contributors

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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
* Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
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  * studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

  * Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

  * hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

  * Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

  * Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

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  * Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

  * Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

  * Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

  * Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

  * Audrius Butkevicius <audrius.butkevicius@elaschosts.com>
  * Fixed a race condition

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  * Added HTTPS (CONNECT) proxy support

  * Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields
* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters
* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts
* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire
* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality
* Danilo @dbrgn <https://dbrgn.ch/>  
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module
* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors
* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations
* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage
* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs
* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)
* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection
* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.
* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation
* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url
* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ``HTTPResponse.stream()``
  * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``
  * Creation of ``HTTPConnectionPool.ResponseCls``

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.
* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site
1.174 dash 0.5.8 2.10
1.174.1 Available under license:
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1.175 artemis-jms-client 2.10.1
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1.176 openjdk 1.8.0u275

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1.193 logrus 1.4.2

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

1.198 libssh 0.7.3
1.198.1 Available under license :

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Version 2.1, February 1999

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
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that the user who changes the contents of definitions files in the
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b) Use a suitable shared library mechanism for linking with the
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will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

------
OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.207 device-mapper-multipath 0.4.9 131.el7

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1.208 httpcomponents-client 4.5.12

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1.209 opentracing-util 0.31.0

1.210 p11-kit 0.23.2 5~ubuntu16.04.1

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1.211 joda-time 2.10.6

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1.212 xz 5.1.1alpha+20120614 2ubuntu2

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- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

[The licence continues]

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1.235 jetty-util 9.4.16.v20190411

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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1.236 findutils 4.6.0+git+20190209 2
1.236.1 Available under license:

It was downloaded from ftp://ftp.gnu.org/gnu/findutils

Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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* GNU find was written by Eric Decker <cire@cisco.com>, with enhancements by David MacKenzie <djm@gnu.org>, Jay Plett <jay@silence.princeton.nj.us>, and Tim Wood <axolotl!tim@toad.com>. The idea for -print0 and xargs -0 came from Dan Bernstein <brnstnd@kramden.acf.nyu.edu>. Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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ter-u28b.bdf, ter-u28n.bdf, ter-u32b.bdf, ter-u32n.bdf 

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## version 0.1
##
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1.251 wildfly-clustering-singleton-extension 19.1.0.Final

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Manifest-Version: 1.0  
Automatic-Module-Name: com.codahale.metrics.jmx  
Bnd-LastModified: 1588454598705  
Build-Jdk: 1.8.0_232  
Built-By: joschi  
Bundle-Description: A set of classes which allow you to report metrics via JMX.  
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Integration with JMX  
Bundle-SymbolicName: io.dropwizard.metrics.jmx  
Bundle-Version: 4.1.7  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics.javax.management";version="4.1.7"  
Implementation-Title: Metrics Integration with JMX  
Implementation-URL: https://metrics.dropwizard.io/metrics-jmx  
Implementation-Vendor-Id: io.dropwizard.metrics  
Implementation-Version: 4.1.7  
Import-Package: org.slf4j;version=\"[1.6.0,2.0.0)\",com.codahale.metrics;version=\"[4.1,5\",javax.management  
Require-Capability: osgi.ee;filter=\"(&(osgi.ee=JavaSE)(version=1.8))\"  
Tool: Bnd-4.2.0.201903051501

Found in path(s):  
* /opt/cola/permits/1120362503_1609938002.12/0/metrics-jmx-4-1-7-jar/META-INF/MANIFEST.MF

### 1.253 xalan 2.7.1

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1.254 traceroute 2.0.21

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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 ============================
 Advice for new contributors
 ============================

New contributor and not sure what to do? Want to help but just don't know how
to get started? This is the section for you.

.. admonition:: Basic tools and workflow

   If you are new to contributing to Django, the :doc:`/intro/contributing`
tutorial will give you an introduction to the tools and the workflow.

First steps
============

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

   The code that you write belongs to you or your employer. If your
   contribution is more than one or two lines of code, you need to sign the
CLA. See the ‘Contributor License Agreement FAQ’ for a more thorough explanation.

**Triage tickets**

If an ‘unreviewed ticket’ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

**Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

**Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

**Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

   The `reports page` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. _reports page: https://code.djangoproject.com/wiki/Reports

.. _CLA: https://www.djangoproject.com/foundation/cla/
.. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/
.. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed
Guidelines
==========

As a newcomer on a large project, it’s easy to experience frustration. Here’s some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don’t already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets’ context and history**

Trac isn’t an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn’t necessarily mean that the idea will still have support. You also need to pay attention to who *hasn’t* spoken -- for example, if an experienced contributor hasn’t been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

It’s easier to get feedback on a little issue than on a big one. See the `easy pickings`

* **If you’re going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there’s consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say “this ticket is correct” or “this patch needs work”, but it’s the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can’t do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

If you’re really not certain if a ticket is ready, don’t mark it as such. Leave a comment instead, letting others know your thoughts. If you’re mostly certain, but not completely certain, you might also try asking on IRC.
to see if someone else can confirm your suspicions.

**Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

**Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ

---

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the |django-developers| mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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1.256 simpleclient-common 0.6.0

1.257 configobj 5.0.6
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Upstream-Name: ConfigObj
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1.258 libmnl 1.0.3

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1.259 azure-mgmt-nspkg 3.0.2

1.260 libtirpc 1.0.2
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Found in path(s):
* /opt/cola/permits/1184181836_1628533468.66/0/python3-idna-2.10-1.el7.src.rpm-cosi-expand-archive-
LIRZpof9/idna-2.10.tar.gz-cosi-expand-archive-joElbTwQ/idna-2.10/LICENSE.rst
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===
A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
===

import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
if python_version < (2,7):
    raise SystemExit("Sorry, Python 2.7 or newer required")

package_data = {}
exec(open('idna/package_data.py').read(), package_data)

arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': package_data['__version__'],
    'description': "Internationalized Domain Names in Applications (IDNA)",
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: 3.7',
        'Programming Language :: Python :: 3.8',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

setup(**arguments)

if __name__ == '__main__':
    main()

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* /opt/cola/permits/1184181836_162853468.66/0/python3-idna-2.10-1.el7.src.rpm-cosi-expand-archive-LIRZpo9/python3-idna.spec

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Metadata-Version: 1.2
Name: idna
Version: 2.10
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:

```python
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

# Python 2
>>> import idna
>>> idna.encode(u'')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
```
Packages
---------

The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna

Installation
------------

To install this library, you can use pip:

.. code-block:: bash

   $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

   $ python setup.py install

This library works with Python 2.7 and Python 3.4 or later.

Usage
-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon

   # Python 3
   >>> import idna
   >>> idna.encode('.')
   b'xn--eckwd4c7c.xn--zckzah'
   >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

You may use the codec encoding and decoding methods using the ``idna.codec`` module:

.. code-block:: pycon
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
'xn--80ahd1agd.xn--80akhbyknj4f'
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

.. code-block:: pycon

    # Python 2
    >>> idna.alabel(u'')
    'xn--0zwm56d'

Compatibility Mapping (UTS #46)
+++++++++++++++++++++++++++++++

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode(u'Königsgäßchen')
    ...  # idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
    >>> idna.encode('Königsgäßchen', uts46=True)
    b'xn--knigsgchen-b4a3dun'
    >>> print(idna.decode('xn--knigsgchen-b4a3dun'))
    königsgäßchen

Transitional processing provides conversions to help transition from the older
2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

```
# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
xn--knigsgsschen-lcb0w
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

```
``encodings.idna`` Compatibility

```
``

Function calls from the Python built-in `encodings.idna` module are mapped to their IDNA 2008 equivalents using the `idna.compat` module. Simply substitute the `import` clause in your code to refer to the new module name.

Exceptions
----------

All errors raised during the conversion following the specification should raise an exception derived from the `idna.IDNAError` base class.

More specific exceptions that may be generated as `idna.IDNABidiError` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; `idna.InvalidCodepoint` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics
------------------------

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:
* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by `IANA <http://iana.org/>`_.

* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing
-------

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

The tests are run automatically on each commit at Travis CI:

```
.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna
```

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1.262 neo4j-parser 4.1.7

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 xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
 <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
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/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
 * <p>Example:</p>
 * <p>
 * <code>String encoded = Base64.encode(myByteArray);</code>
 * <br>
 * <code>byte[] myByteArray = Base64.decode(encoded);</code>
 * <br>
 * <p>The <code>options</code> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes( bytes, options ) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds,
 * and encoding using the URL-safe and Ordered dialects.</p>
 * <p>Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>,</p>
Section 2.1, implementations should not add line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke lines by default.

The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:

```
String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );
```

to compress the data before encoding it and then making the output have newline characters.

Also...

```
String encoded = Base64.encodeBytes( crazyString.getBytes() );
```

Change Log:

- v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base 64 character but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential for better handling) of other bad input characters. You should now get an IOException if you try decoding something that has bad characters in it.
- v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was not properly shrinked and contained an extra (null) byte that made it into the string.
- v2.3.5 - Fixed bug in `@link #encodeFromFile` where estimated buffer size was wrong for files of size 31, 34, and 37 bytes.
- v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the Base64.OutputStream closed the Base64 encoding (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped streams. Also added experimental support for specifying a class loader when using the `@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)` method.
- v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its CharEncoders and so forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException explicitly inline.
- v2.3.2 - Reduced memory footprint! Finally refined the “guessing” of how big the final encoded data will be so that the code doesn’t have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win when using the `@link #encodeBytesToBytes(byte[])` family of methods (and not using the gzip options which uses a different mechanism with streams and stuff).
- v2.3.1 - Added `@link #encodeBytesToBytes(byte[], int, int, int)` and some similar helper methods to be more efficient with memory by not returning a String but just a byte array.
- v2.3 - This is not a drop-in replacement! This is two years of comments and bug fixes queued up and finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
- Much bad coding was cleaned up including throwing exceptions where necessary.
instead of returning null values or something similar. Here are some changes
* that may affect you:
* <ul>
* <li>Does not break lines, by default. This is to keep in compliance with
* <li>Throws exceptions instead of returning null values. Because some operations
* (especially those that may permit the GZIP option) use IO streams, there
* is a possibility of an java.io.IOException being thrown. After some discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOExceptions
* rather than return null if ever there's an error. I think this is more
* appropriate, though it will require some changes to your code. Sorry,
* it should have been done this way to begin with.</li>
* <li>Removed all references to System.out, System.err, and the like.</li>
* Shame on me. All I can say is sorry they were ever there.</li>
* <li>Throws NullPointerExceptions and IllegalArgumentExceptions as needed
* such as when passed arrays are null or offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.
* This was especially annoying before for people who were thorough in their
* own projects and then had gobs of javadoc warnings on this file.</li>
* <ul>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~<lt; 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* <ol>
* <li>The default is RFC3548 format.</li>
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT,URLSAFE_FORMAT) generates
* URL and file name friendly format as described in Section 4 of RFC3548.
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT,ORDERED_FORMAT) generates
* URL and file name friendly format that preserves lexical ordering as described
* </ol>
* Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com/</a>
* for contributing the new Base64 dialects.</li>
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).</li>
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the
* encoded data was a single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (<code>int</code>s that you "OR" together). </li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a 
byte[] using <code>decode( String s, boolean gzipCompressed )</code>. 
* Added the ability to "suspend" encoding in the Output Stream so 
you can turn on and off the encoding if you need to embed base64 
data in an otherwise "normal" stream (like an XML file). </li>
* <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself. 
* This helps when using GZIP streams. 
* Added the ability to GZip-compress objects before encoding them. </li>
* <li>v1.4 - Added helper methods to read/write files. </li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset. </li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream 
where last buffer being read, if not completely full, was not returned. </li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time. </li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up. </li>
* </ul>
* 
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* Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute improvements.
* 
* @author Robert Harder 
* @author rob@iharder.net 
* @version 2.3.7 
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094808345_1601320097.05/0/resteasy-jaxrs-3-11-2-final-sources-
jar/org/jboss/resteasy/util/Base64.java
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/** 
* Any exception thrown by a MessageBodyWriter chain that is not an instance of a WriterException is caught internally 
* by the Resteasy runtime and wrapped with an instance of WriterException. 
* 
* If you want to have special exception handling for exceptions thrown by MessageBodyWriters and their interceptors, then write an exception 
* mapper for WriterException. 
* 
* Also, you may extend this class and throw instances of it from your MessageBodyWriters (and interceptors) 
* 
* @author <a href="mailto:bill@burkecentral.com">Bill Burke</a> 
* @version $Revision: 1 $ 
*/
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094808345_1601320097.05/0/resteasy-jaxrs-3-11-2-final-sources-jar/org/jboss/resteasy/spi/WriterException.java
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/**
 * Any exception thrown by a MessageBodyReader chain that is not an instance of a ReaderException is caught internally
 * by the Resteasy runtime and wrapped with an instance of ReaderException.
 * 
 * If you want to have special exception handling for exceptions thrown by MessageBodyReaders, then write an exception
 * mapper for ReaderException.
 * 
 * Also, you may extend this class and throw instances of it from your MessageBodyReaders (and interceptors)
 * @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
 * @version $Revision: 1 $
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094808345_1601320097.05/0/resteasy-jaxrs-3-11-2-final-sources-jar/org/jboss/resteasy/spi/ReaderException.java

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jms-api

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### 1.284 urllib3 1.22

#### 1.284.1 Available under license:

# Contributions to the urllib3 project

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* Andrey Petrov <andrey.petrov@shazow.net>

#### Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers
* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFxQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
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  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)
* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix
<table>
<thead>
<tr>
<th>Author</th>
<th>Changes</th>
</tr>
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<tbody>
<tr>
<td>Jordan Moldow</td>
<td>Fix low-level exceptions leaking from <code>HTTPResponse.stream()</code></td>
</tr>
<tr>
<td></td>
<td>Bugfix for <code>ConnectionPool.urlopen(release_conn=False)</code></td>
</tr>
<tr>
<td></td>
<td>Creation of <code>HTTPConnectionPool.ResponseCls</code></td>
</tr>
<tr>
<td>Predrag Gruevski</td>
<td>Made cert digest comparison use a constant-time algorithm</td>
</tr>
<tr>
<td>Adam Talsma</td>
<td>Bugfix to ca_cert file paths.</td>
</tr>
<tr>
<td>Evan Meagher</td>
<td>Bugfix related to <code>memoryview</code> usage in PyOpenSSL adapter</td>
</tr>
<tr>
<td>John Vandenberg</td>
<td>Python 2.6 fixes; pyflakes and pep8 compliance</td>
</tr>
<tr>
<td>Andy Caldwell</td>
<td>Bugfix related to reusing connections in indeterminate states</td>
</tr>
<tr>
<td>Ville Skytt</td>
<td>Logging efficiency improvements, spelling fixes, Travis config</td>
</tr>
<tr>
<td>Shige Takeda</td>
<td>Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response</td>
</tr>
<tr>
<td>Jesse Shapiro</td>
<td>Various character-encoding fixes/tweaks</td>
</tr>
<tr>
<td></td>
<td>Disabling IPv6 DNS when IPv6 connections not supported</td>
</tr>
<tr>
<td>David Foster</td>
<td>Ensure order of request and response headers are preserved</td>
</tr>
<tr>
<td>Jeremy Cline</td>
<td>Added connection pool keys by scheme</td>
</tr>
<tr>
<td>Aviv Palivoda</td>
<td>History list to Retry object.</td>
</tr>
<tr>
<td></td>
<td>HTTPResponse contains the last Retry object.</td>
</tr>
<tr>
<td>Nate Prewitt</td>
<td>Ensure timeouts are not booleans and greater than zero.</td>
</tr>
<tr>
<td></td>
<td>Fixed infinite loop in <code>stream</code> when amt=None.</td>
</tr>
<tr>
<td></td>
<td>Added length_remaining to determine remaining data to be read.</td>
</tr>
<tr>
<td></td>
<td>Added enforce_content_length to raise exception when incorrect content-length received.</td>
</tr>
<tr>
<td>Seth Michael Larson</td>
<td></td>
</tr>
</tbody>
</table>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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1.286 dh-python 2.20151103ubuntu1.2

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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline }. 
*
* <h3>Sub-types</h3>
* <p>
* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li> { @link ChannelInboundHandler } to handle inbound I/O events, and</li>
* <li> { @link ChannelOutboundHandler } to handle outbound I/O operations.</li>
* </ul>
* </p>
* 
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li> { @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>
* <li> { @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>
* <li> { @link ChannelDuplexHandler } to handle both inbound and outbound events</li>
* </ul>
* </p>
* 
* For more information, please refer to the documentation of each subtype.
A `@link ChannelHandler` is provided with a `@link ChannelHandlerContext` object. A `@link ChannelHandler` is supposed to interact with the `@link ChannelPipeline` it belongs to via a context object. Using the context object, the `@link ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `@link AttributeKey`)s which is specific to the handler.

**State management**

A `@link ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    ...  
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where an unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See `@link ChannelInitializer#initChannel(Channel)`.  
public class DataServerInitializer extends @link ChannelInitializer<@link Channel> {

    ...  
}
```
* { @code @Override }
* public void initChannel({@link Channel} channel) {
*     channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
* }
* }
* </pre>
* *
* <h4>Using @{link AttributeKey}s</h4>
* *
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use @{link AttributeKey}s which is provided by
* [{@link ChannelHandlerContext}]:
* <pre>
* public interface Message {   
*     // your methods here
* }   
* }
* *
* { @code @Sharable }
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {   
*     private final @{link AttributeKey}&lt;@link Boolean&gt; auth =   
*         @{link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};   
* }
* { @code @Override }
* public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*     @{link Attribute}&lt;@link Boolean&gt; attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) o);
*         <b>attr.set(true)</b>;
*     } else (message instanceof GetDataMessage) {
*         if (ctx真२e(true)) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*         } else {
*             fail();
*         }
*     }
*     ...   
* }
* </pre>
* Now that the state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;@link Channel&gt; {   
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();   
* }   
* </pre>
*/
* { @code @Override}
* public void initChannel( { @link Channel} channel) {
*     channel.pipeline().addLast("handler", <b>SHARED</b>);
* }
* }
*/

* <h4>The { @code @Sharable} annotation</h4>
* 
* In the example above which used an { @link AttributeKey},
* you might have noticed the { @code @Sharable} annotation.
* 
* If a { @link ChannelHandler} is annotated with the { @code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline}s multiple times without
* a race condition.
* 
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* 
* This annotation is provided for documentation purpose, just like
* 
* <h3>Additional resources worth reading</h3>
* 
* Please refer to the { @link ChannelHandler}, and
* { @link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
* /

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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/pool/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java
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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

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1.288 jackson 2.9.9

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1.289 urllib3 1.26.6-1.ph1

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1.290 wildfly-weld-spi 19.1.0.Final
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1.299 opensaml-security-api 3.3.1

1.299.1 Available under license:

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* /opt/ws_local/PERMITS_SQL/1021461995_1591378228.4/0/opensaml-security-api-3-3-1-sources-jar/org/opensaml/security/criteria/KeyAlgorithmCriterion.java
* /opt/ws_local/PERMITS_SQL/1021461995_1591378228.4/0/opensaml-security-api-3-3-1-sources-
**1.300 openssl 1.1.1i**

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   b) accompany the distribution with the machine-readable source of the Package with your modifications.

   c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

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form of aggregation, provided that the complete Standard Version of the
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6. The scripts and library files supplied as input to or produced as
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Package. If such scripts or library files are aggregated with this
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binary executable image, then distribution of such an image shall
neither be construed as a distribution of this Package nor shall it
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The End

1.301 pam 1.1.8-3.6ubuntu2.18.04.3

1.301.1 Available under license:

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DAMAGE.

Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    ...
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+     /* Get the password entry */
+     pwd = pam_modutil_getpwnam (pamh, user);
+     if (pwd != NULL)
+     {
+         if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+             pam_syslog(pamh, LOG_ERR,
+                     "Unable to change UID to %d temporarily\n",
+                     pwd->pw_uid);
+             retval = PAM_SESSION_ERR;
+             goto finished;
+         }
+         if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+             goto finished;
+         if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+             goto finished;
+         if (stat(flag, &s) != 0)
+         {
+             display_file(pamh, "/etc/legal");
+             mkdir(dir, 0700);
+             f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                      S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+             if (f>=0) close(f);
+         }
+         finished:
+         if (pam_modutil_regain_priv(pamh, &privs)) {
+             pam_syslog(pamh, LOG_ERR,
+                     "Unable to change UID back to %d\n", privs.old_uid);
+             retval = PAM_SESSION_ERR;
+         }
+     }
+ }
+ if (asprintf(&dir, "%s/cache", pwd->pw_dir) == -1 || !dir)
+     goto finished;
+ if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+     goto finished;
+ if (stat(flag, &s) != 0)
+ {
+     display_file(pamh, "/etc/legal");
+     mkdir(dir, 0700);
+     f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+              S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+     if (f>=0) close(f);
+ }
+ finished:
+ if (pam_modutil_regain_priv(pamh, &privs)) {
+     pam_syslog(pamh, LOG_ERR,
+              "Unable to change UID back to %d\n", privs.old_uid);
+     retval = PAM_SESSION_ERR;
+ }
+ _pam_drop(flag);
+ _pam_drop(dir);
+ }
/* Display the updated motd */
    display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.302 cracklib 2.9.0
1.302.1 Available under license:

 EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

 Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.
[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

---
Open Source Used In SDWan 20.7.1 2652
it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 whichimo is just wrong. It isn't the place of a library to dictate to application writers what license they should be using. thus LGPL-2.1 enters to fill this void.

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme you all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing you all come up with is fine by me.

-- Nathan

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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-- Nathan

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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-- Nathan
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

>=20
> the original license (before moving to sourceforge -- aka, 2.7) was not
> GPL-2 ... it was a modified artistic license ... i didnt notice the license
> change until it was mentioned in the latest notes.

>=20
> unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writes what license they should be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes, go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
> yes, go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

--------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
--------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
    Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11cOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :)

-a

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Version 2.1, February 1999

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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1.306 super-csv 2.4.0

1.307 conscrypt 1.0.0
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1.309 xauth 1.0.9-1ubuntu2

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* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/utils/ClassInstantiationUtility.java
1.311 jewelcli 0.8.2

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*/opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/AbstractConvertMethodToOptionSpecification.java
*/opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/ValidationFailureWrongNumberOfValues.java
*/opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/uk/co/flamingpenguin/jewel/cli/OptionHelpMessage.java
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* /opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/ValidationFailureUnexpectedValue.java
* /opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/ValidationFailure.java

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* /opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/uk/co/flamingpenguin/jewel/cli/UnparsedOptionSpecificationBuilder.java
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* /opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/InstanceOptionsSpecificationParser.java
* /opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/CliSpecification.java
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`/opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/ValidationFailureMissingValue.java`

`/opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/uk/co/flamingpenguin/jewel/cli/ConvertTypeOfObject.java`

`/opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/ValidationFailureInvalidValueForType.java`
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* /opt/cola/permits/1136415751_1613765238.70/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/HelpMessageBuilderImpl.java
* /opt/cola/permits/1136415751_1613765238.70/jewelcli-0-8-2-sources-jar/uk/co/flamingpenguin/jewel/cli/HelpMessageBuilderImpl.java
* /opt/cola/permits/1136415751_1613765238.70/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/HelpMessage.java
* /opt/cola/permits/1136415751_1613765238.70/jewelcli-0-8-2-sources-jar/uk/co/flamingpenguin/jewel/cli/ArgumentPresentingStrategy.java
* /opt/cola/permits/1136415751_1613765238.70/jewelcli-0-8-2-sources-jar/uk/co/flamingpenguin/jewel/cli/ParsedOptionSpecification.java
* /opt/cola/permits/1136415751_1613765238.70/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/ValidationFailureMisplacedOption.java
* /opt/cola/permits/1136415751_1613765238.70/jewelcli-0-8-2-sources-jar/uk/co/flamingpenguin/jewel/cli/UnparsedOptionSpecification.java
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* /opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/uk/co/flamingpenguin/jewel/cli/OptionType.java
* /opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/UnparsedOptionSpecificationImpl.java
* /opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/ParsedOptionSpecificationImpl.java
* /opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/ParsedOptionSpecificationImpl.java

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* /opt/cola/permits/1136415751_1613765238.7/0/jewelcli-0-8-2-sources-jar/com/lexicalscope/jewel/cli/SpecificationMultiplicity.java

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Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support.
that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.
Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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package engine

import (  
  "bytes"  
  "encoding/json"  
  "strings"  
  "testing"  
  "time"  
)
func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }{

        // Errors
        
        formatter.Context{Format: "{{InvalidFunction}}"},
        `Template parsing error: template: :1: function "InvalidFunction" not defined`
        ``,
        `},

        formatter.Context{Format: "{{nil}}"},
        `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command`
        ``,
        `},

        // Table format
        
        formatter.Context{Format: NewSubscriptionsFormat("table", false)},
        `NUM     OWNER          PRODUCT ID          EXPIRES                         PRICING COMPONENTS
1       owner1              productid1          2020-01-01 10:00:00 +0000 UTC   compstring
2       owner2              productid2          2020-01-01 10:00:00 +0000 UTC   compstring`
        ``,
        `},

        formatter.Context{Format: NewSubscriptionsFormat("table", true)},
        `1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01`
        ``,
        `},

        `OWNER
          owner1
          owner2`
        ``,
        `},

        `OWNER
owner1
owner2
`
},
// Raw Format
{
  `license: id1
  name: name1
  owner: owner1
  components: compstring

  license: id2
  name: name2
  owner: owner2
  components: compstring

  `, 
},
// Custom Format
{
formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
  `owner1
  `owner2
  `, 
}

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
  subscriptions := []licenseutils.LicenseDisplay{
    {
      Num: 1,
      Owner: "owner1",
      Subscription: model.Subscription{
        ID: "id1",
        Name: "name1",
        ProductID: "productid1",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
          &model.SubscriptionPricingComponent{
```go
out := &bytes.Buffer{}
testcase.context.Output = out
er := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
    assert.Error(t, err, testcase.expected)
} else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
            },
        },
        {
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID: "id2",
                Name: "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 20,
                    },
                },
            },
        },
    }
    out := &bytes.Buffer{}
testcase.context.Output = out
er := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
    assert.Error(t, err, testcase.expected)
} else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
}
```
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&&model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 10,
},
,
ComponentsString: "compstring",
},
,
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
    ID: "id2",
    Name: "name2",
    ProductID: "productid2",
    Expires: &expiration,
    PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 20,
},
,
ComponentsString: "compstring",
},
}
eXpectedJSONs := []map[string]interface{}{
{
    "Owner": "owner1",
    "ComponentsString": "compstring",
    "Expires": "2020-01-01T10:00:00Z",
    "DockerID": "",
    "Eusa": nil,
    "ID": "id1",
    "Start": nil,
    "Name": "name1",
    "Num": float64(1),
    "PricingComponents": []interface{}{
map[string]interface{}{
    "name": "nodes",
    "value": float64(10),
},
],
    "ProductID": "productid1",
    "ProductRatePlan": "",
    "ProductRatePlanID": "",
    "State": "",
    "Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
{  
  "Owner": "owner2",
  "ComponentsString": "compstring",
  "Expires": "2020-01-01T10:00:00Z",
  "DockerID": "",
  "Eusa": nil,
  "ID": "id2",
  "Start": nil,
  "Name": "name2",
  "Num": float64(2),
  "PricingComponents": []interface{}
map[string]interface{}{}
  "name": "nodes",
  "value": float64(20),
},
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01",
}
}

out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
  var m map[string]interface{}
  if err := json.Unmarshal([]byte(line), &m); err != nil {
    t.Fatal(err)
  }
  assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
  subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1, Owner: "owner1"},
    {Num: 2, Owner: "owner2"},
  }
  out := &bytes.Buffer{}
  if err != nil {
    t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}
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package engine

import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (
    defaultSubscriptionsTableFormat = "table
    {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
    numHeader               = "NUM"
    ownerHeader             = "OWNER"
    licenseNameHeader       = "NAME"
    idHeader                = "ID"
    dockerIDHeader          = "DOCKER ID"
    productIDHeader         = "PRODUCT ID"
    productRatePlanHeader   = "PRODUCT RATE PLAN"
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
    startHeader             = "START"
    expiresHeader           = "EXPIRES"
    stateHeader             = "STATE"
    eusaHeader              = "EUSA"
    pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
licenseName: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`}
    return formatter.Format(source)
}
// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }

    licenseCtx := licenseContext{
        Header = map[string]string{
            "Num":               numHeader,
            "Owner":             ownerHeader,
            "Name":              licenseNameHeader,
            "ID":                idHeader,
            "DockerID":          dockerIDHeader,
            "ProductID":         productIDHeader,
            "ProductRatePlan":   productRatePlanHeader,
            "ProductRatePlanID": productRatePlanIDHeader,
            "Start":             startHeader,
            "Expires":           expiresHeader,
            "State":             stateHeader,
            "Eusa":              eusaHeader,
            "ComponentsString":  pricingComponentsHeader,
        }
    }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}
func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}
func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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package licensing

import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"

    "github.com/docker/libtrust"
    "github.com/docker/licensing/lib/errors"
    "github.com/docker/licensing/lib/go-clientlib"
    "github.com/docker/licensing/model"
func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }
}
key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "license authorization decode failed")
    }
    return decoded, nil
}
}, "decoding license authorization failed")
}
return decoded, nil
}
// All of the functions in this file assume that they are receiving a properly
// formatted private key.
// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
tokenBytes, err := base64.URLEncoding.DecodeString(token)
if err != nil {
return errors.Wrap(err, errors.Fields{"token": token})
}
generatedToken, err := generateToken(message, privateKey)
if err != nil {
return errors.Wrap(err, errors.Fields{"token": token})
}
generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
return errors.Wrap(err, errors.Fields{"token": token})
}
if !hmac.Equal(tokenBytes, generatedBytes) {
return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}
return nil
}
// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
key, err := base64.URLEncoding.DecodeString(privateKey)
if err != nil {
return "", errors.Wrap(err, errors.Fields{"msg": message})
}
h := hmac.New(sha256.New, key)
h.Write([]byte(message))
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
    Expiration  time.Time `json:"expiration"`
    Token       string    `json:"token"`
    MaxEngines  int       `json:"maxEngines"`
    ScanningEnabled bool    `json:"scanningEnabled"`
    Type        string    `json:"licenseType"`
    Tier        string    `json:"tier"`
}

// IssuedLicense represents an issued license.
type IssuedLicense struct {
    KeyID         string `json:"key_id"`
    PrivateKey    string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
    if l.Authorization == "" {
        return false, "empty authorization"
    }
    return true, ""
}

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```java
/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 * 
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */
```

Found in path(s):
/`/opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources.jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java`

1.316 jetty-continuation 9.4.16.v20190411
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* javax.servlet:javax.servlet-api
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.eclipse.jetty.toolchain:jetty-schemas

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principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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<th>Year</th>
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  jar/org/jboss/logmanager/JDKSpecific.java
* /opt/ws_local/PERMITS_SQL/1074949378_1596001563.8/0/jboss-logmanager-2-1-14-final-sources-1-
  jar/org/jboss/logmanager/formatters/StructuredFormatter.java
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* /opt/ws_local/PERMITS_SQL/1074949378_1596001563.8/0/jboss-logmanager-2-1-14-final-sources-1-jar/org/jboss/logmanager/ConcurrentReferenceHashMap.java

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jar/org/jboss/logmanager/JBossLoggerFinder.java
* /opt/ws_local/PERMITS_SQL/1074949378_1596001563.8/0/jboss-logmanager-2-1-14-final-sources-1-
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org.jboss.logmanager.LogManager

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  jar/META-INF/services/java.util.logging.LogManager

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org.jboss.logmanager.JBossLoggerFinder

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1.326 bzip2 1.0.8

1.327 kubernetes-api 0.16.9
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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1.338 snmp-4j 2.4.1

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1.341 pylint 2.4.4

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Contributors
------------

Current team:

* Ashley Whetter: maintainer, contributor

* Bryce Guinta: maintainer, contributor

* Claudiu Popa: maintainer, contributor

* Cara Vinson: astroid committer.

* Guillaume Peillex: committer

* ukasz Rogalski: committer.

* Roy Williams (Lyft): committer
added check for implementing `__eq__` without implementing `__hash__`
Added Python 3 check for accessing `Exception.message`.
Added Python 3 check for calling `encode/decode` with invalid codecs.
Added Python 3 check for accessing `sys.maxint`.
Added Python 3 check for bad import statements.
Added Python 3 check for accessing deprecated methods on the `string` module, various patches.

* Dmitry Pribysh: committer

multiple-imports, not-iterable, not-a-mapping, various patches.

* Jim Robertson: committer

Ex-maintainers:

* Sylvain Thenault (Logilab): main author / maintainer

* Torsten Marek (Google): committer / contributor

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* Martin Pool (Google): warnings for anomalous backslashes, symbolic names for messages (like 'unused'), etc

* Alexandre Fayolle (Logilab): TkInter gui, documentation, debian support

* Julien Cristau, Emile Anclin (Logilab): python 3 support

* Sandro Tosi: Debian packaging

* Mads Kiilerich, Boris Feld, Bill Wendling, Sebastian Ulrich: various patches

* Brian van den Broek: windows installation documentation

* Amaury Forgeot d'Arc: check names imported from a module exists in the module

* Benjamin Niemann: allow block level enabling/disabling of messages
* Nathaniel Manista: suspicious lambda checking

* David Shea: invalid sequence and slice index

* Carl Crowder: don't evaluate the value of arguments for 'dangerous-default-value'


* David Lindquist: logging-format-interpolation warning.

* Brett Cannon: Port source code to be Python 2/3 compatible, Python 3 checker.

* Vlad Temian: redundant-unittest-assert and the JSON reporter.

* Cosmin Poiean: unichr-builtin and improvements to bad-open-mode.

* Viorel tirbu: intern-builtin warning.

* Dan Goldsmith: support for msg-template in HTML reporter.

* Chris Rebert: unidiomatic-typecheck.

* Steven Myint: duplicate-except.


* Bruno Daniel: check_docs extension.

* James Morgensen: ignored-modules option applies to import errors.

* Cezar Elnazli: deprecated-method

* Stephane Wirte: nonlocal-without-binding

* Laura Medioni (Logilab, on behalf of the CNES): misplaced-comparison-constant, no-classmethod-decorator, no-staticmethod-decorator, too-many-nested-blocks, too-many-boolean-expressions, unneeded-not, wrong-import-order, ungrouped-imports, wrong-import-position, redefined-variable-type

* Aru Sahni: Git ignoring, regex-based ignores

* Mike Fryisner: contributor.

* Moiss Lpez (Vauxoo): Support for deprecated-modules in modules not installed, Refactor wrong-import-order to integrate it with `isort` library Add check too-complex with mccabe for cyclomatic complexity
Refactor wrong-import-position to skip try-import and nested cases
Add consider-merging-isinstance, superfluous-else-return
Fix consider-using-ternary for 'True and True and True or True' case

* Luis Escobar (Vauxoo), Moiss Lpez (Vauxoo): Add bad-docstring-quotes and docstring-first-line-empty

* Yannick Brehon: contributor.

* Glenn Matthews: autogenerated documentation for optional extensions, bug fixes and enhancements for docparams (ne check_docs) extension

* Elias Dorneles: minor adjust to config defaults and docs

* Yuri Bochkarev: Added epytext support to docparams extension.

* Alexander Todorov: added new error conditions to 'bad-super-call',
  Added new check for incorrect len(SEQUENCE) usage,
  Added new extension for comparison against empty string constants,
  Added new extension which detects comparing integers to zero,
  Added new useless-return checker,
  Added new try-except-raise checker

* Erik Eriksson: Added overlapping-except error check.

* Anthony Foglia (Google): Added simple string slots check.

* Derek Gustafson: contributor

* Petr Pulc: require whitespace around annotations

* John Paraskevopoulos: add 'differing-param-doc' and 'differing-type-doc'

* Martin von Gagern (Google): Added 'raising-format-tuple' warning.

* Ahirnish Pareek, 'keyword-arg-before-var-arg' check

* Daniel Miller: contributor.

* Bryce Guinta: contributor

* Martin Bati: contributor
  Added new check for shallow copy of os.environ

* Jacques Kvam: contributor

* Brian Shaginaw: prevent error on exception check for functions

* Ioana Tagirta: fix bad thread instantiation check
* Reverb Chu: contributor
* Tobias Hernstig: contributor
* Konstantin Manna: contributor
* Andreas Freimuth: fix indentation checking with tabs
* Renat Galimov: contributor
* Thomas Snowden: fix missing-docstring for inner functions
* Mitchell Young: minor adjustment to docparams
* Marianna Polatoglou: minor contribution for wildcard import check
* Ben Green: contributor
* Benjamin Freeman: contributor
* Fureigh: contributor
* Jace Browning: updated default report format with clickable paths

* Sushobhit (sushobhit27): contributor
  Added new check 'comparison-with-itself'.
  Added new check 'useless-import-alias'.
  Added support of annotations in missing-type-doc and missing-return-type-doc.
  Added new check 'comparison-with-callable'.
  Removed six package dependency.
  Added new check 'chained-comparison'.
  Added new check 'useless-object-inheritance'.

* Mariatta Wijaya: contributor
  Added new check 'logging-fstring-interpolation'
  Documentation typo fixes

* Jason Owen: contributor

* Mark Roman Miller: fix inline defs in too-many-statements

* Adam Dangoor: contributor

* Gary Tyler McLeod: contributor

* Wolfgang Grafen, Axel Muller, Fabio Zadrozny, Pierre Rouleau,
  Maarten ter Huurne, Mirko Friedenhagen and all the Logilab's team (among others).
* Matej Marusak: contributor

* Nick Drozd: contributor, performance improvements to astroid

* Kosarchuk Sergey: contributor

* Carey Metcalfe: demoted `try-except-raise` from error to warning

* Marcus Nslund (nslundx): contributor

* Natalie Serebryakova: contributor

* Caio Carrara: contributor

* Roberto Leinardi: PyCharm plugin maintainer

* Aivar Annamaa: contributor

* Hornwitser: fix import graph

* Yuri Gribov: contributor

* Drew Risinger: committer (docs)

* Ben James

* Tomer Chachamu, Richard Goodman: simplifiable-if-expression

* Alan Chan: contributor

* Benjamin Drung: contributing Debian Developer

* Scott Worley: contributor

* Michael Hudson-Doyle

* Lucas Cimon: contributor

* Mike Miller: contributor

* Sergei Lebedev: contributor

* Sasha Bagan

* Pablo Galindo Salgado: contributor
Fix false positive 'Non-iterable value' with async comprehensions.
* Matus Valo

* Sardorbek Imomaliev: contributor

* Justin Li (justinnhli)

* Nicolas Dickreuter

* Pascal Corpet

* Svetoslav Neykov: contributor

* Federico Bond: contributor

* Fantix King (UChicago): contributor

* Yory (yory8): contributor

* Thomas Hisch: contributor

* Clément Pit-Claudel: contributor

* Goudcode: contributor

* Paul Renvoie: contributor

* Bluesheep token: contributor

* Michael Scott Cuthbert: contributor

* Pierre Sassoulas: contributor
  - Made C0412 (ungrouped import) compatible with isort
  - Made multiple message with the same old name possible
  - Made Pylint a little faster by refactoring the message store
  - Broke down "missing-docstrings" between "module", "class" and "function"

* Nathan Marrow

* Taewon Kim: contributor

* Daniil Kharkov: contributor

* Tyler N. Thieding: contributor

* Zeb Nicholls: contributor
  - Made W9011 compatible with 'of' syntax in return types

* Martin Vielsmaier: contributor
* Agustin Toledo: contributor

* Nicholas Smith: contributor

* Peter Kolbus (Garmin): contributor

* Oisin Moran: contributor

* Andrzej Klajnert: contributor

* Andrs Prez Hortal: contributor

* Niko Wenselowski: contributor

* Danny Hermes: contributor

* Eric Froemling: contributor

* Robert Schweizer: contributor

* Hugo van Kemenade: contributor

* Trevor Bekolay: contributor
  - Added --list-msgs-enabled command

* Rmi Cardona: contributor
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1.347 xmldiff 2.4
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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goproperties - properties file decoder for Go

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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The initial code for shuffling an array (originally in class
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inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
available here:
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* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/WriteTimeoutException.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/ReadTimeoutException.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/SuspendableAcceptChannel.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/streams/BufferPipeInputStream.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/streams/BufferedChannelInputStream.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/streams/BufferedChannelInputStream.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/streams/BufferedChannelInputStream.java
jar/org/xnio/streams/WriterOutputStream.java
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* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/AssembledSslStreamChannel.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/AssembledChannel.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/AssembledMessageChannel.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/ConcurrentStreamChannelAccessException.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/ConcurrentStreamChannelAccessException.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/AssembledStreamChannel.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/AssembledConnectedChannel.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/AssembledConnectedStreamChannel.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/PushBackStreamChannel.java
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  * /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1.jar/org/xnio/management/XnioWorkerMXBean.java
  * /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1.jar/org/xnio/ssl/JsseSslStreamSourceConduit.java
  * /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1.jar/org/xnio/conduits/ConduitReadableByteChannel.java
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  * /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1.jar/org/xnio/conduits/BufferedStreamSourceConduit.java
  * /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1.jar/org/xnio/ssl/AbstractAcceptingSslChannel.java
  * /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1.jar/org/xnio/conduits/SynchronizedStreamSourceConduit.java
  * /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1.jar/org/xnio/ssl/JsseAcceptingSslStreamConnection.java
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  * /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1.jar/org/xnio/conduits/NullStreamSinkConduit.java
  * /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1.jar/org/xnio/ssl/JsseAcceptingSslStreamConnection.java
  * /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1.jar/org/xnio/channels/WriteListenerSettable.java
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  * /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1.jar/org/xnio/management/XnioServerMXBean.java
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* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/conduits/MessageSinkConduit.java
* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/ReadListenerSettable.java
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*/opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/sasl/SaslQop.java

1.367 artemis-core-client 2.10.1
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version 1.2.11, January 15th, 2017

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jar/com/zaxxer/hikari/util/FastList.java

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* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/pool/BaseHikariPool.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/metrics/CodaHaleMetricsTracker.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/metrics/MetricsTracker.java
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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api  
* javax.annotation:javax.annotation-api  
* javax.transaction:javax.transaction-api  
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* /opt/ws_local/PERMITS_SQL/1072388155_1594997914.91/0/msrest-0-6-17-tar-gz/msrest-0.6.17/tests/test_universal_pipeline.py
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* /opt/ws_local/PERMITS_SQL/1072388155_1594997914.91/0/msrest-0-6-17-tar-gz/msrest-0.6.17/tests/asynctests/test_async_client.py
* /opt/ws_local/PERMITS_SQL/1072388155_1594997914.91/0/msrest-0-6-17-tar-gz/msrest-0.6.17/tests/test_serialization.py
* /opt/ws_local/PERMITS_SQL/1072388155_1594997914.91/0/msrest-0-6-17-tar-gz/msrest-0.6.17/tests/asynctests/test_async_paging.py
* /opt/ws_local/PERMITS_SQL/1072388155_1594997914.91/0/msrest-0-6-17-tar-gz/msrest-0.6.17/tests/test_xml_serialization.py
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* /opt/ws_local/PERMITS_SQL/1072388155_1594997914.91/0/msrest-0-6-17-tar-gz/msrest-0.6.17/tests/test_polling.py
1.379 infinispan.hibernate.cache.spi
9.4.18.Final

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094801651_1601321069.67/0/infinispan.hibernate.cache.spi-9-4-18-final-jar/META-INF/MANIFEST.MF

1.380 junixsocket-common 2.0.4

1.381 resteasy-client-microprofile 3.11.2.Final

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1.383 cpp 8.4.0 1ubuntu1~18.04

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1.388 tdb 1.44.5
1.388.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; id -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB). $(OBJS)
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \
@-$(LDCONFIG)

install-strip: install
install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$ (RM) - f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$ (RM) - rf pic
$ (RM) - f $(BSD_LIB)
$ (RM) - f ../$(BSD_LIB)
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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 * Set the {@code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
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*/opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources.jar/io/netty/channel/epoll/LinuxSocket.java
*/opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources.jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
*/opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources.jar/netty_epoll_linuxsocket.c
*/opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources.jar/netty_epoll_linuxsocket.h
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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/Native.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/netty_epoll_native.c

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache
The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
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1.398 pythonurlib 1.13.1 2ubuntu0.16.04.3

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# Contributions to the urllib3 project

## Creator & Maintainer

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravelosystems.com>
  * Allowed to skip SSL hostname verification
* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.
* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* [Your name or handle] <[email or website]>  
  * [Brief summary of your changes]

---

1.399 percolator-client 6.8.10

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HK2 API module
HK2 Implementation Utilities
Jakarta Annotations API
jakarta.ws.rs-api
javax.inject:1 as OSGi bundle
javax.ws.rs-api
jersey-container-servlet
jersey-container-servlet-core
jersey-core-client
jersey-core-common
jersey-core-server
jersey-inject-hk2
jersey-media-jaxb
ServiceLocator Default Implementation

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1.410 log4j-api 2.13.0

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1.411 linux-atm 2.5.1-1.5
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1.439 eddsa 0.3.0

1.440 su-exec 0.2-r1
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1.441 jansi 1.6

1.442 fdisk 2.23.2
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 */

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---------layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
--------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2nd primary partition
1bebfb8724ae05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dfe51a88a045db233418dd73f0e bsd.img

---layout-------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
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<th>Blocks</th>
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<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td></td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start   end    size  fstype [fsize bsize cpg]
c: 4096 20479 16384  unused  0  0
```
d:  0  16064  16065 unused  0  0

BSD disklabel command (m for help):
Command (m for help):

-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end    size    fstype   [fsize bsize   cpg]
a:  4096   6144   2049    4.2BSD        0     0     0
c:  4096  20479  16384    unused        0     0

BSD disklabel command (m for help):
Command (m for help):

-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused   5  4.1BSD    9  4.4LFS    d  boot
1  swap    6  Eighth Edition a  unknown   e  ADOS
2  Version 6  7  4.2BSD    b  HPFS     f  HFS
3  Version 7  8  MS-DOS     c  ISO-9660  10  AdvFS
4  System V

BSD disklabel command (m for help):
```

---

**1.443 prettytable 0.7.2**
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1.444 json-java 20131018

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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/Property.java
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1.445 jose4j 0.6.5

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* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
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  jar/org/jose4j/keys/resolvers/JwksDecryptionKeyResolver.java
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* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/jwk/RsaJsonWebKey.java

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jar/org/jose4j/jwk/DecryptionJwkSelector.java

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1.449 ecdsa 0.15

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- Web Services Security Kerberos Token Profile 1.1
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* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wsaddressing/impl/AbstractWSAddressingObject.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wsaddressing/wssecurity/impl/EncryptedHeaderMarshaller.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wsaddressing/wssecurity/impl/OnBehalfOfUnmarshaller.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/security/SecurityPolicyResolver.java

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* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wstrust/impl/ParticipantsUnmarshaller.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/soap/soap11/impl/FaultCodeImpl.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wsfed/impl/RequestedSecurityTokenBuilder.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wstrust/impl/DelegateToImpl.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wsfed/AppliesTo.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wstrust/WSTrustObject.java
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* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wsfed/impl/RequestKETImpl.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wspolicy/impl/PolicyReferenceMarshaller.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wspolicy/impl/ExactlyOneBuilder.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wstrust/impl/WSTrustObject.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wstrust/impl/RequestKETMarshaller.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wspolicy/impl/OperatorContentTypeUnmarshaller.java
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* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/waddressing/impl/ProblemIRIImpl.java
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/org/opensaml/ws/wstrust/Delegatable.java
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 */

/**
 * Gets whether the transport represents a confidential connection (e.g. an SSL connection).
 * @return whether the transport represents a confidential connection
 */

* Sets whether the transport represents a confidential connection.
* @param isConfidential whether the transport represents a confidential connection
*/

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* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-
  jar/org/opensaml/ws/transport/Transport.java
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/** Confidential flag. */

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* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/schema/ws-trust-1.3.xsd

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) */
/* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) */

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
*          interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
*          and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
*           loss of link, and correctly re-enable PHY when link is
*           re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStar PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
*
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1.465 iperf 3.5

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* -------------------------------------------------------------------
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Recreated the BCJ test files for x86 and SPARC. The old files
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Files: dos/config.h
Free Software Foundation, Inc.
2007-2010, Lasse Collin
Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,
David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,
visibility.m4 serial 1 (gettext-0.15),
Autoconf 2.52g
License: config-h

configure.ac:
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comments from Autoconf 2.52g:
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dos/config.h was generated with autoheader, which tells Autoconf to
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Origin: gettext-runtime/po/Makevars (gettext-0.12)
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1.469 wss4j-ws-security-policy-stax 2.2.5
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1.470 grpcio-tools 1.34.1
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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/stubs/stringprintf.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/stubs/platform_macros.h
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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/stubs/stringprintf_unittest.cc

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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/impl/codegen/port_platform.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/src/compiler/python_plugin.cc
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/impl/codegen/status.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/impl/codegen/status.h
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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/security/alts_context.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/security/alts_util.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/opencensus.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/opencensus.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/test/default_reactor_test_peer.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/impl/codegen/sync.h
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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/impl/codegen/server_context.h

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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/impl/server_initializer.h
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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/compression_types.h
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Metadata-Version: 1.1
Name: grpcio-tools
Version: 1.34.1
Summary: Protobuf code generator for gRPC
Home-page: https://grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Description: gRPC Python Tools

Package for gRPC Python tools.

Supported Python Versions
-------------------------
Python &ge; 3.5

Deprecation Python Version
--------------------------
Python == 2.7. Python 2.7 support will be removed on January 1, 2020.

Installation
-----------

The gRPC Python tools package is available for Linux, Mac OS X, and Windows running Python 2.7.

Installing From PyPI
---------------------

If you are installing locally...
$ pip install grpcio-tools

Else system wide (on Ubuntu)...

$ sudo pip install grpcio-tools

If you're on Windows make sure that you installed the `pip.exe` component when you installed Python (if not go back and install it!) then invoke:

$ pip.exe install grpcio-tools

Windows users may need to invoke `pip.exe` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of `pip` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

You might also need to install Cython to handle installation via the source distribution if gRPC Python's system coverage with wheels does not happen to include your system.

Installing From Source

Building from source requires that you have the Python headers (usually a package named `python-dev`) and Cython installed. It further requires a GCC-like compiler to go smoothly; you can probably get it to work without GCC-like stuff, but you may end up having a bad time.

$ export REPO_ROOT=grpc  # REPO_ROOT can be any directory of your choice
$ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT
$ cd $REPO_ROOT
$ git submodule update --init

$ cd tools/distrib/python/grpcio_tools
$ python ../make_grpcio_tools.py

# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .
You cannot currently install Python from source on Windows. Things might work out for you in MSYS2 (follow the Linux instructions), but it isn't officially supported at the moment.

Troubleshooting
~~~~~~~~~~~~~~

Help, I ...

* ***... see a** `pkg_resources.VersionConflict` **when I try to install grpc**

This is likely because `pip` doesn't own the offending dependency, which in turn is likely because your operating system's package manager owns it. You'll need to force the installation of the dependency:

```
:code:`pip install --ignore-installed $OFFENDING_DEPENDENCY`
```

For example, if you get an error like the following:

```
::

Traceback (most recent call last):
File "<string>", line 17, in <module>
...
File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
raise VersionConflict(dist, req)
pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))
```

You can fix it by doing:

```
::

sudo pip install --ignore-installed six
```

* ***... see compiler errors on some platforms when either installing from source or from the source distribution**

If you see

```
::

/tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
#include "Python.h"
^
compilation terminated.
```
You can fix it by installing `python-dev` package. i.e

```
sudo apt-get install python-dev
```

If you see something similar to:

```
static const Type kPosMax = SIGNED_INT_MAX(Type); \\ ^
```

And your toolchain is GCC (at the time of this writing, up through at least GCC 6.0), this is probably a bug where GCC chokes on constant expressions when the `--fwrapv` flag is specified. You should consider setting your environment with `CFLAGS=-fno-wrapv` or using clang (`CC=clang`).

**Usage**

-----

Given protobuf include directories `$INCLUDE`, an output directory `$OUTPUT`, and proto files `$PROTO_FILES`, invoke as:

```
$ python -m grpc.tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT $PROTO_FILES
```

To use as a build step in distutils-based projects, you may use the provided command class in your `setup.py`:

```
setuptools.setup(
    # ...
    cmdclass={
        'build_proto_modules': grpc.tools.command.BuildPackageProtos,
    }
    # ...
)
```

Invocation of the command will walk the project tree and transpile every `.proto` file into a `.pb2.py` file in the same directory.

Note that this particular approach requires `grpcio-tools` to be
installed on the machine before the setup script is invoked (i.e. no combination of :code:`setup_requires` or :code:`install_requires` will provide access to :code:`grpc.tools.command.BuildPackageProtos` if it isn't already installed). One way to work around this can be found in our :code:`grpcio-health-checking` package <https://pypi.python.org/pypi/grpcio-health-checking>:

```
class BuildPackageProtos(setuptools.Command):
    # Command to generate project *_pb2.py modules from proto files.
    # ...
    def run(self):
        from grpc.tools import command
        command.build_package_protos(self.distribution.package_dir[""])
```

Now including :code:`grpcio-tools` in :code:`setup_requires` will provide the command on-setup as desired.

For more information on command classes, consult :code:`distutils` and :code:`setuptools` documentation.

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34.1-tar-gz/grpcio-tools-1.34.1/grpcio_tools.egg-info/PKG-INFO
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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/impl/codegen/completion_queue.h
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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_field_base.h
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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_map_field.cc
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.cc

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 */

/// If set, grpc is free to use the HTTP GET verb for sending the request,

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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/impl/codegen/sync_custom.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/grpc_root/include/grpc/impl/codegen/fork.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/grpc_root/include/grpc/support/sync_custom.h
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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/grpc_root/include/grpcpp/impl/codegen/byte_buffer.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/grpc_root/include/grpcpp/test/mock_stream.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/grpc_root/include/grpcpp/test/simpler.proto
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/grpc_root/include/grpcpp/test/flawed.proto
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/grpc_root/include/grpc/tools/main.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcgrpcpp/test/simpler.proto
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/grpc_root/include/grpc/tools/main.cc
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*
*/
/** TLS server authorization check arguments, wraps
* grpc_tls_server_authorization_check_arg. It is used for experimental
* purposes for now and it is subject to change.
* 
* The server authorization check arg contains all the info necessary to
* schedule/cancel a server authorization check request. The callback function
* must be called after finishing the schedule operation. See the description
* of the grpc_tls_server_authorization_check_arg struct in grpc_security.h for
* more details. ***/

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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/stubs/template_util_unittest.cc
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/stubs/template_util.h

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 */

/** Signal that the call is cacheable. GRPC is free to use GET verb */

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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34.1/third_party/protobuf/stubs/ruby/ruby_generator_unittest.cc
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34.1/third_party/protobuf/stubs/casts.h
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# Jackson JSON processor

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1.476 spring-context 5.1.17.RELEASE

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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scripting/groovy/GroovyScriptEvaluator.java
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/jmx/export/NotificationListenerBean.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/ClassPathBeanDefinitionScanner.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/stereotype/Controller.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/ebj/access/LocalSlsbInvokerInterceptor.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scheduling/config/ScheduledTask.java

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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/ImportAware.java

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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/validation/MessageCodesResolver.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/remoting/support/DefaultRemoteInvocationFactory.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/jmx/export/assembler/AutodetectCapableMBeanInfoAssembler.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/remoting/support/RemoteProxyFailureException.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/remoting/support/UrlBasedRemoteAccessor.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/remoting/RemoteConnectFailureException.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scheduling/TriggerContext.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/ScopeMetadata.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/ejb/config/RemoteStatelessSessionBeanDefinitionParser.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/ui/context/ThemeSource.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/jmx/MBeanServerNotFoundException.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/event/ApplicationContextEvent.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/remoting/RemoteInvocationFailureException.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scheduling/SchedulingException.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scripting/ScriptSource.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/remoting/support/RemoteInvocationFailureException.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java

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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/context/annotation/AdviceMode.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/remoting/rmi/RmiRegistryFactoryBean.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/context/event/GenericApplicationListenerAdapter.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/validation/FieldError.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/validation/FieldError.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/jmx/export/assembler/MethodNameBasedMBeanInfoAssembler.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/context/event/GenericApplicationListener.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/context/event/GenericApplicationListener.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/jmx/export/assembler/MethodNameBasedMBeanInfoAssembler.java
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java
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 */
/**
 * Indicates that a component is only eligible for registration when all
 * { [@linkplain #value specified conditions] } match.
 *
 * <p>A <em>condition</em> is any state that can be determined programmatically
 * before the bean definition is due to be registered (see { @link Condition } for details).
 *
 * <p>The { [@code @Conditional] } annotation may be used in any of the following ways:
 * {[@ul]
 *  *  * as a type-level annotation on any class directly or indirectly annotated with
 *  * { [@code @Component] }, including { [@link Configuration @Configuration] } classes
 *  * as a meta-annotation, for the purpose of composing custom stereotype
 *  * annotations
 *  * as a method-level annotation on any { [@link Bean @Bean] } method
 */
If a `@Configuration` class is marked with `@Conditional`, all of the `@Bean` methods, `@Import` annotations, and `@ComponentScan` annotations associated with that class will be subject to the conditions.

NOTE: Inheritance of `@Conditional` annotations is not supported; any conditions from superclasses or from overridden methods will not be considered. In order to enforce these semantics, `@Conditional` itself is not declared as `@Inherited`; furthermore, any custom `<em>composed annotation</em>` that is meta-annotated with `@Conditional` must not be declared as `@Inherited`.

@author Phillip Webb
@since 4.0
@see Condition
*/

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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scheduling/support/CronTrigger.java
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 */

/**
 * Abstract the invocation of a cache operation.
 * 
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 * 
 * @author Stephane Nicoll
 * @since 4.1
 */

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  /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java

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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/ui/ModelExtensions.kt

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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scripting/groovy/GroovyScriptFactory.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/AutoProxyRegistrar.java
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/cache/interceptor/BasicOperation.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/PropertySources.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
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*/
/**
 * @link FactoryBean] that obtains a WebSphere [link javax.management.MBeanServer]
 * reference through WebSphere's proprietary [code AdminServiceFactory] API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the [code MBeanServer] for bean references.
 * This FactoryBean is a direct alternative to [link MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * <p>See the javadocs for WebSphere's
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
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  jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
  jar/org/springframework/context/annotation/FilterType.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
  jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
  jar/org/springframework/scheduling/support/TaskUtils.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
  jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
  jar/org/springframework/context/i18n/LocaleContext.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
  jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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  jar/org/springframework/format/datetime/joda/LocalTimeParser.java
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  jar/org/springframework/format/datetime/joda/LocalDateParser.java
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scripting/support/StandardScriptFactory.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/ConfigurationClassPostProcessor.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/support/AbstractMessageSource.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/Import.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/ConfigurationClassPostProcessor.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/support/AbstractMessageSource.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/Import.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/support/AbstractMessageSource.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/Import.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/support/AbstractMessageSource.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/Import.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/support/AbstractMessageSource.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/Import.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/support/AbstractMessageSource.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/Import.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/support/AbstractMessageSource.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/Import.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/support/AbstractMessageSource.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
1.477 libice 1.0.9-2

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1.478 dbus-glib 0.100-7.el7

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1.479 hibernate-search-serialization-avro

5.10.7.Final

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Name: django-crontab
Version: 0.7.1
Summary: dead simple crontab powered job scheduling for django
Home-page: https://github.com/kraiz/django-crontab
Author: Lars Kreisz
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:target: https://pypi.python.org/pypi/django-crontab
dead simple crontab powered job scheduling for django (1.8+).

setup
=====
install via pip::

    pip install django-crontab

add it to installed apps in django settings.py::

    INSTALLED_APPS = (  
        'django_crontab',
        ...
    )

now create a new method that should be executed by cron every 5 minutes, f.e. in `myapp/cron.py`::

    def my_scheduled_job():
        pass

now add this to your settings.py::

    CRONJOBS = [
        ('*/5 * * * *', 'myapp.cron.my_scheduled_job')
    ]

you can also define positional and keyword arguments which let you call django management commands::

    CRONJOBS = [
        ('*/5 * * * *', 'myapp.cron.other_scheduled_job', ['arg1', 'arg2'], {'verbose': 0}),
        ('0 4 * * *', 'django.core.management.call_command', ['clearsessions']),
    ]

finally run this command to add all defined jobs from `CRONJOBS` to crontab (of the user which you are running this command with)::

    python manage.py crontab add

show current active jobs of this project::

    python manage.py crontab show

removing all defined jobs is straight forward::

    python manage.py crontab remove
config
======
there are a bunch of setting vars to customize behavior. each of this comes with default values that should properly fit. if not, feel free to overwrite.

CRONJOBS
- list of jobs, each defined as tuple:
  - format 1:
    2. required: the python module path to the method
    3. optional: a job specific suffix (f.e. to redirect out/err to a file, default: ")

  - format 2:
    2. required: the python module path to the method
    3. optional: list of positional arguments for the method (default: [])
    4. optional: dict of keyword arguments for the method (default: {})
    5. optional: a job specific suffix (f.e. to redirect out/err to a file, default: ")

  - NOTE: Run "python manage.py crontab add" each time you change CRONJOBS in any way!
  - default: []
  - example::

    CRONJOBS = [
        ('*/5 * * * *', 'myapp.cron.my_scheduled_job'),

        # format 1
        ('0 1 * * *', 'myapp.cron.my_scheduled_job', '>> /tmp/scheduled_job.log'),

        # format 2
        ('0 1 * * *', 'myapp.cron.other_scheduled_job', ['myapp']),
        ('0 0 * * 0', 'django.core.management.call_command', ['dumpdata', 'auth'], {'indent': 4}, '>
        /home/john/backups/last_sunday_auth_backup.json'),
    ]

CRONTAB_LOCK_JOBS
- prevent starting a job if an old instance of the same job is still running
- default: False
- since 0.5.0

CRONTAB_EXECUTABLE
- path to the crontab executable of your os
- default: '/usr/bin/crontab'
CRONTAB_DJANGO_PROJECT_NAME
- the name of your django project, used to build path path to manage.py and to mark the jobs in contrab via comment for later removing
  - default is read from DJANGO_SETTINGS_MODULE environment variable

CRONTAB_DJANGO_MANAGE_PATH
- path to manage.py file (including the manage.py itself, i.e. '/home/john/web/manage.py')
  - default is build using DJANGO_PROJECT_NAME

CRONTAB_DJANGO_SETTINGS_MODULE
- dotted python path to the settings module to run the command with
  - default is the common one from the environment variable and will not be overwritten
  - since 0.6.0

CRONTAB_PYTHON_EXECUTABLE
- path to the python interpreter executable used to run the scheduled job
  - default uses the interpreter executable used to `add` the jobs (via 'python manage.py crontab add')

CRONTAB_COMMAND_PREFIX
- something you wannt to do or declare before each job gets executed. A good point for environment variables.
  - default: " (empty string)
  - example: 'STAGE=production'

CRONTAB_COMMAND_SUFFIX
- something you wannt to do after each job was executed.
  - default: " (empty string)
  - example: '2>&1'

CRONTAB_COMMENT
- used for marking the added contrab-lines for removing, default value includes project name to distinguish multiple projects on the same host and user
  - default: 'django-crontabs for ' + CRONTAB_DJANGO_PROJECT_NAME

contributors
============
arski cinghiale meric426 justdoit0823 chamaken

faq
===
* **I'm using this old django version (<1.8) and can't install this package. What should i do?**
- Yeah, update django of course (!) or - as you seem to be familiar with old, unsupported versions, install the old version of this package too (it support django 1.3-1.7):

    pip install django-crontab==0.6.0

* **Will it work with windows?**
  - No,
* **I'm getting "bad command"/"errors in cronfile" while installing via "crontab add". What's wrong?**
- Maybe it's your cron time format, it can have 5 or 6 fields. Check that your system supports 6 or just define 5 in `CRONJOBS`. (see #23)

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Classifier: Development Status :: 5 - Production/ Stable
Classifier: Environment :: Web Environment
Classifier: Framework :: Django
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Natural Language :: English
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**1.481 netty-handler 4.1.48.Final**

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  jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

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  jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
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  jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
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* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

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* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/ss/JdkNpnSslEngine.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/ss/JdkAlpnApplicationProtocolNegotiator.java
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* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/ss/JettyNpnSslEngine.java
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* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/ss/JdkSslServerContext.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/cola/permits/117796799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
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jar/io/netty/handler/ssl/JdkSslContext.java
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jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/cola/permits/117796799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
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jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
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jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/cola/permits/117796799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/117796799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
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jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
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* /opt/cola/permits/117796799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
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jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
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jar/io/netty/handler/ssl/SslProvider.java
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jar/io/netty/handler/ssl/OpenSslSessionStats.java
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  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java

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  jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/ssl/package-info.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/tutil/package-info.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/timeout/WriteTimeoutHandler.java
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* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty/handler/ssl/ocsp/package-info.java
*/opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty(handler/ssl/Conscrypt.java
*/opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty(handler/ssl/SslCloseCompletionEvent.java
*/opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty(handler/ssl/SslClientHelloHandler.java
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jar/io/netty(handler/ssl/Java9SslEngine.java
*/opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty(handler/ssl/Java9SslUtils.java
*/opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty(handler/ssl/SslCompletionEvent.java
*/opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty(handler/ssl/AbstractSniHandler.java
*/opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty(handler/ssl/traffic/TrafficCounter.java
*/opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty(handler/traffic/GlobalTrafficShapingHandler.java
*/opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty(handler/traffic/ChannelTrafficShapingHandler.java
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jar/io/netty(handler/traffic/package-info.java

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jar/io/netty(handler/traffic/GlobalTrafficShapingHandler.java
*/opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty(handler/traffic/ChannelTrafficShapingHandler.java
*/opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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* /opt/ws_local/PERMITS_SQL/1094804981_1601320522.97/0/wildfly-elytron-sasl-1-11-4-final-sources.jar/org/wildfly/security/sasl/util/PrivilegedSaslServer.java
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Version 3, 29 June 2007
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1.498 netty-codec-http 4.1.32.Final

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jar/io/netty/handler/codec/http2/Http2StreamChannelId.java
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*/opt/cola/permits/1110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
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* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
jar/io/netty/handler/codec/http2/Http2Exception.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
jar/io/netty/handler/codec/http2/DefaultHttp2Headers.java
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jar/io/netty/handler/codec/http2/Http2FrameReader.java
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jar/io/netty/handler/codec/http2/Http2FrameTypes.java
* /opt/cola/permits/110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionEncoder.java
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jar/io/netty/handler/codec/http2/package-info.java

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// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

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* /opt/cola/permits/1110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
  jar/io/netty/handler/codec/http2/DefaultHttp2HeadersFrame.java
* /opt/cola/permits/1110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
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* /opt/cola/permits/1110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
  jar/io/netty/handler/codec/http2/Http2FrameStreamVisitor.java
* /opt/cola/permits/1110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
  jar/io/netty/handler/codec/http2/Http2ChannelDuplexHandler.java
* /opt/cola/permits/1110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
  jar/io/netty/handler/codec/http2/Http2FrameStreamException.java
* /opt/cola/permits/1110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
  jar/io/netty/handler/codec/http2/ReadOnlyHttp2Headers.java

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1.501 gdbm 1.14.1

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**1.502 html5lib 1.0.1**

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1.503 kmod 25

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* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-jar/org/springframework/aop/afterReturningAdviceAdapter.java
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1.506 wildfly-core-management-subsystem

11.1.1.Final

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  jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1068448911_1594389097.85/0/netty-codec-http-4-1-48-final-sources-1-
  jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
* /opt/ws_local/PERMITS_SQL/1068448911_1594389097.85/0/netty-codec-http-4-1-48-final-sources-1-
  jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
* /opt/ws_local/PERMITS_SQL/1068448911_1594389097.85/0/netty-codec-http-4-1-48-final-sources-1-
  jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
* /opt/ws_local/PERMITS_SQL/1068448911_1594389097.85/0/netty-codec-http-4-1-48-final-sources-1-
  jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
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  jar/io/netty/handler/codec/http/Cookie.java
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  jar/io/netty/handler/codec/http/CookieHeaderNames.java
* /opt/ws_local/PERMITS_SQL/1068448911_1594389097.85/0/netty-codec-http-4-1-48-final-sources-1-
  jar/io/netty/handler/codec/http/CookieUtil.java
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jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java

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1.516 libpcap 1.9.0

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Manifest-Version: 1.0
Export-Package: com.fasterxml.jackson.core;version="2.1.1",com.fasterxml.jackson.core.io;version="2.1.1",com.fasterxml.jackson.core.json;version="2.1.1",com.fasterxml.jackson.core.util;version="2.1.1",com.fasterxml.jackson.core.base;version="2.1.1",com.fasterxml.jackson.core.sym;version="2.1.1",com.fasterxml.jackson.core.type;version="2.1.1",com.fasterxml.jackson.core.format;version="2.1.1"
Implementation-Title: Jackson-core
Built-By: tsaloranta
Implementation-Build-Date: 2012-11-11 15:46:22-0800
Tool: Bnd-1.50.0
Implementation-Vendor: FasterXML
Implementation-Vendor-Id: com.fasterxml.jackson.core
Specification-Title: Jackson-core
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: com.fasterxml.jackson.core.jackson-core
X-Compile-Target-JDK: 1.5
Implementation-Version: 2.1.1
Specification-Vendor: FasterXML
Bundle-Name: Jackson-core
Created-By: Apache Maven Bundle Plugin
X-Compile-Source-JDK: 1.5
Bundle-Vendor: FasterXML
Build-Jdk: 1.6.0_37
Bundle-Version: 2.1.1
Bnd-LastModified: 1352677595911
Bundle-ManifestVersion: 2
Bundle-Description: Core Jackson abstractions, basic JSON streaming API implementation
Bundle-DocURL: http://wiki.fasterxml.com/JacksonHome
Specification-Version: 2.1.1
Archiver-Version: Plexus Archiver

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* /opt/cola/permits/1078251982_1619067814.16/0/jackson-core-2-1-1-jar/META-INF/MANIFEST.MF

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com.fasterxml.jackson.core.JsonFactory

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*/opt/cola/permits/1078251982_1619067814.16/0/jackson-core-2-1-1-jar/META-INF/services/com.fasterxml.jackson.core.JsonFactory

1.518 cdebconf 0.198ubuntu1

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@c ispell-local-pdict: "ispell-dict"
@c End:

1.520 jackson-dataformat-cbor 2.8.11

1.521 jackson-annotations 2.8.11
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1.523 cyrus-sasl 2.1.26.dfsg1-14ubuntu0.1

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threshold for this to be true is not precisely defined by law.

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>>> freebsd-base64-4.8
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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.530 opensaml-storage-api 3.3.0

1.531 glib 2.48.2 0ubuntu4.4

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1.536 luajit 2.1.0.beta3
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* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/task/TaskRejectedException.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/util/xml/SimpleTransformErrorListener.java
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* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
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jar/org/springframework/core/SmartClassLoader.java
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jar/org/springframework/core/task/ClassUtils.java
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* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources.jar/org/springframework/core/env/EnvironmentCapable.java
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* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-
jar/org/springframework/util/xml/ListBasedXMLEventReader.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-
jar/org/springframework/util/xml/AbstractStaxXMLReader.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-
jar/org/springframework/core/codec/CharSequenceEncoder.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-
jar/org/springframework/cglib/core/AsmApi.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-
jar/org/springframework/cglib/core/AbstractClassGenerator.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-
jar/org/springframework/cglib/core/ReflectUtils.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-
jar/org/springframework/cglib/core/KeyFactory.java

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jar/org/springframework/cglib/core/AbstractClassGenerator.java
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jar/org/springframework/cglib/core/ReflectUtils.java
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* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/io/ContextResource.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/io/support/ResourcePatternResolver.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/style/ValueStyler.java

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* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/convert/support/ConfigurableConversionService.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/convert/support/DeserializingConverter.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/convert/support/StringToCharsetConverter.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/convert/support/StringToUUIDConverter.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/type/AnnotatedTypeMetadata.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/serializer/DefaultSerializer.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/serializer/support/DeserializingConverter.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/serializer/support/SystemEnvironmentPropertySource.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/serializer/support/StringToCurrencyConverter.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/serializer/support/StringToUUIDConverter.java
* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/core/serializer/DefaultSerializer.java
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1.545 certifi 2019.9.11

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c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
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It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/implementation/bind/ArgumentTypeResolver.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/dynamic/scaffold/MethodRegistry.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/description/modifier/ParameterManifestation.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/description/ModifierReviewable.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/implementation/bytecode/assign/primitive/PrimitiveWideningDelegate.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/implementation/bind/annotation/IgnoreForBinding.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/dynamic/scaffold/inline/RebaseDynamicTypeBuilder.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/matcher/MethodOverrideMatcher.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/dynamic/ClassFileLocator.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/description/annotation/package-info.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/utility/OpenedClassReader.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/implementation/ExceptionMethod.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/description/DeclaredByType.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/dynamic/scaffold/inline/DecoratingDynamicTypeBuilder.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/agent/builder/AgentBuilder.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/build/CachedReturnPlugin.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/implementation/bytecode/addition/package-info.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/implementation/bytecode/constant/package-info.java
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* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/ModuleVisitor.java
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* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/TypeReference.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/signature/SignatureReader.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/Symbol.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/Constants.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/ClassWriter.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/SymbolTable.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/ClassVisitor.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/Context.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
Jar/net/bytebuddy/jar/asm/ClassReader.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources.jar/net/bytebuddy/jar/asm/MethodTooLargeException.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources.jar/net/bytebuddy/jar/asm/MethodVisitor.java
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* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources.jar/net/bytebuddy/jar/asm/ClassTooLargeException.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources.jar/net/bytebuddy/jar/asm/FieldWriter.java
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* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources.jar/net/bytebuddy/jar/asm/Attribute.java
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* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources.jar/net/bytebuddy/jar/asm/CurrentFrame.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources.jar/net/bytebuddy/jar/asm/Frame.java
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setProcessControllerJavaOptions(final Iterable<String> args) { public DomainCommandBuilder

setServerJavaHome(final String javaHome) { public DomainCommandBuilder

setServerJavaHome(final Path javaHome) {

1.549 gzip 1.5-10.el7

1.550 shiro-lang 1.7.1

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094806622_1601321892.44/0/opentelemetry-exporters-jaeger-0-6-0-sources-jar/io/opentelemetry/exporters/jaeger/Adapter.java
* /opt/ws_local/PERMITS_SQL/1094806622_1601321892.44/0/opentelemetry-exporters-jaeger-0-6-0-sources-jar/io/opentelemetry/exporters/jaeger/JaegerGrpcSpanExporter.java

1.556 keyutils 1.5.8 3.el7
1.556.1 Available under license :

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.557 sudo 1.8.16 0ubuntu1.8
1.557.1 Available under license :
The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
The following people have worked to translate sudo into other languages:

- Blettermann, Mario
- Bogusz, Jakub
- Casagrande, Milo
- Castro, Felipe
- Chornoivan, Yuri
- Diguez, Francisco
- Ferreira, Rafael
- Garca-Fontes, Walter
- Gezer, Volkan
- Hamasaki, Takeshi
- Hamming, Peter
- Hansen, Joe
- Hantrais, Frédéric
- Hein, Jochen
- Jerovek, Damir
- Karvonen, Jorma
- Kazik, Duan
- Kelemen, Gbor
- Koir, Klemen
- Kozlov, Yuri
- Kramer, Jakob
- Krznar, Tomislav
- Marchal, Frédéric
- Margeviušus, Algimantas
- Maryanov, Pavel
- Nikoli, Miroslav
- Nylander, Daniel
- Psa, Petr
- Qun, Trn Ngc
- Regueiro, Leandro
- Sarer, zgr
- Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Uranga, Mikel Olasagasti
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Wang, Wylmer

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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will operate properly with a modified version of the library, if
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* /opt/cola/permits/1155895470_1619081295.62/0/azure-mgmt-storage-10-0-0-0-0-0-0-0-0/azure-mgmt/storage/v2018_07_01/operations/_management_policies_operations.py
* /opt/cola/permits/1155895470_1619081295.62/0/azure-mgmt-storage-10-0-0-0-0-0-0-0-0/azure-mgmt/storage/v2018_07_01/models/_models.py
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* /opt/cola/permits/1155895470_1619081295.62/0/azure-mgmt-storage-10-0-0-0-0-0-0-0-0/azure-mgmt/storage/v2015_06_15/__init__.py
Description: # Microsoft Azure SDK for Python

This is the Microsoft Azure Storage Management Client Library. This package has been tested with Python 2.7, 3.5, 3.6, 3.7 and 3.8.
For a more complete view of Azure libraries, see the [Github repo](https://github.com/Azure/azure-sdk-for-python/)

# Usage

For code examples, see [Storage Management](https://docs.microsoft.com/python/api/overview/azure/storage) on docs.microsoft.com.

# Provide Feedback

If you encounter any bugs or have suggestions, please file an issue in the [Issues](https://github.com/Azure/azure-sdk-for-python/issues) section of the project.

![Impressions](https://azure-sdk-impressions.azurewebsites.net/api/impressions/azure-sdk-for-python%2Fazure-mgmt-storage%2FREADME.png)

# Release History

## 10.0.0 (2020-05-07)

**Features**

- Model ManagementPolicyFilter has a new parameter blob_index_match
- Model FileShareItem has a new parameter access_tier_status
- Model FileShareItem has a new parameter share_usage_bytes
- Model FileShareItem has a new parameter deleted
- Model FileShareItem has a new parameter deleted_time
- Model FileShareItem has a new parameter access_tier
- Model FileShareItem has a new parameter version
- Model FileShareItem has a new parameter root_squash
- Model FileShareItem has a new parameter enabled_protocols
- Model FileShareItem has a new parameter access_tier_change_time
- Model FileShareItem has a new parameter remaining_retention_days
- Model RestorePolicyProperties has a new parameter last_enabled_time
- Model FileShare has a new parameter access_tier_status
- Model FileShare has a new parameter share_usage_bytes
- Model FileShare has a new parameter deleted
- Model FileShare has a new parameter deleted_time
- Model FileShare has a new parameter access_tier
- Model FileShare has a new parameter version
- Model FileShare has a new parameter root_squash
- Model FileShare has a new parameter enabled_protocols
- Model FileShare has a new parameter access_tier_change_time
- Model FileShare has a new parameter remaining_retention_days
- Added operation FileSharesOperations.restore
- Added operation PrivateEndpointConnectionsOperations.list
- Added operation group ObjectReplicationPoliciesOperations

**Breaking changes**

- Operation FileSharesOperations.update has a new signature
- Operation FileSharesOperations.create has a new signature
- Operation FileSharesOperations.get has a new signature
- Operation FileSharesOperations.list has a new signature
- Operation FileSharesOperations.update has a new signature
- Operation FileSharesOperations.create has a new signature

## 9.0.0 (2020-03-27)

**Features**

- Model BlobContainer has a new parameter default_encryption_scope
- Model BlobContainer has a new parameter deny_encryption_scope_override
- Model ListContainerItem has a new parameter default_encryption_scope
- Model ListContainerItem has a new parameter deny_encryption_scope_override
- Model KeyVaultProperties has a new parameter last_key_rotation_timestamp
- Model KeyVaultProperties has a new parameter current_versioned_key_identifier

**Breaking changes**

- Operation BlobContainersOperations.update has a new signature
- Operation BlobContainersOperations.create has a new signature
- Operation BlobContainersOperations.update has a new signature
- Operation BlobContainersOperations.create has a new signature

## 8.0.0 (2020-02-27)

**Features**

- Model ImmutabilityPolicyProperties has a new parameter allow_protected_append_writes
- Model BlobServiceProperties has a new parameter container_delete_retention_policy
- Model BlobServiceProperties has a new parameter is_versioning_enabled
- Model ImmutabilityPolicy has a new parameter allow_protected_append_writes
- Added operation group EncryptionScopesOperations

**Breaking changes**

- Operation BlobContainersOperations.create_or_update_immutability_policy has a new signature
- Operation BlobContainersOperations.extend_immutability_policy has a new signature
- Operation BlobContainersOperations.create_or_update_immutability_policy has a new signature

## 7.2.0 (2020-02-10)

**Features**

- Model BlobServiceProperties has a new parameter restore_policy
- Model StorageAccount has a new parameter blob_restore_status
- Added operation StorageAccountsOperations.restore_blob_ranges

## 7.1.0 (2020-01-09)

**Features**

- Model EncryptionService has a new parameter key_type

## 7.0.0 (2019-12-04)

**Features**

- Model StorageAccountCreateParameters has a new parameter routing_preference
- Model BlobServiceProperties has a new parameter sku
- Model FileServiceProperties has a new parameter share_delete_retention_policy
- Model FileServiceProperties has a new parameter sku
- Model StorageAccount has a new parameter routing_preference
- Model StorageAccountUpdateParameters has a new parameter routing_preference
- Model Endpoints has a new parameter internet_endpoints
- Model Endpoints has a new parameter microsoft_endpoints

**Breaking changes**

- Operation FileServicesOperations.set_service_properties has a new signature
- Model Sku has a new signature

## 6.0.0 (2019-10-25)

**Features**

- Model StorageAccount has a new parameter private_endpoint_connections
- Added operation group PrivateEndpointConnectionsOperations
- Added operation group PrivateLinkResourcesOperations
## 5.0.0 (2019-10-21)

**Features**

- Model AzureFilesIdentityBasedAuthentication has a new parameter `active_directory_properties`

**Breaking changes**

- Operation FileSharesOperations.list has a new signature
- Operation BlobContainersOperations.list has a new signature

## 4.2.0 (2019-10-07)

**Features**

- Model StorageAccountCreateParameters has a new parameter `large_file_shares_state`
- Model StorageAccountUpdateParameters has a new parameter `large_file_shares_state`
- Model StorageAccount has a new parameter `large_file_shares_state`

## 4.1.0 (2019-09-27)

**Features**

- Model BlobServiceProperties has a new parameter `change_feed`
- Added operation BlobServicesOperations.list
- Added operation group FileServicesOperations
- Added operation group FileSharesOperations

## 4.0.0 (2019-06-12)

**Features**

- Model StorageAccount has a new parameter `azure_files_identity_based_authentication`
- Model StorageAccountCreateParameters has a new parameter `azure_files_identity_based_authentication`
- Model StorageAccountUpdateParameters has a new parameter `azure_files_identity_based_authentication`

**Breaking changes**

...
- Model StorageAccount no longer has parameter enable_azure_files_aad_integration
- Model StorageAccountCreateParameters no longer has parameter enable_azure_files_aad_integration
- Model StorageAccountUpdateParameters no longer has parameter enable_azure_files_aad_integration

**Breaking changes**

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes while using imports. In summary, some modules were incorrectly visible/importable and have been renamed. This fixed several issues caused by usage of classes that were not supposed to be used in the first place.

- StorageManagementClient cannot be imported from `azure.mgmt.storage.storage_management_client` anymore (import from `azure.mgmt.storage` works like before)
- StorageManagementClientConfiguration import has been moved from `azure.mgmt.storage.network_management_client` to `azure.mgmt.storage`
- StorageManagementClient cannot be imported from `azure.mgmt.storage.v20xx_yy_zz.network_management_client` anymore (import from `azure.mgmt.storage.v20xx_yy_zz` works like before)
- StorageManagementClientConfiguration import has been moved from `azure.mgmt.storage.v20xx_yy_zz.network_management_client` to `azure.mgmt.storage.v20xx_yy_zz`
- A model `MyClass` from a "models" sub-module cannot be imported anymore using `azure.mgmt.storage.v20xx_yy_zz.models.my_class` (import from `azure.mgmt.storage.v20xx_yy_zz.models` works like before)
- An operation class `MyClassOperations` from an `operations` sub-module cannot be imported anymore using `azure.mgmt.storage.v20xx_yy_zz.operations.my_class_operations` (import from `azure.mgmt.storage.v20xx_yy_zz.operations` works like before)

Last but not least, HTTP connection pooling is now enabled by default. You should always use a client as a context manager, or call close(), or use no more than one storage mgmt client per process.

## 3.3.0 (2019-04-22)

**Features**
- Model BlobServiceProperties has a new parameter
  automatic_snapshot_policy_enabled
- Added operation
  StorageAccountsOperations.revoke_user_delegation_keys
- Added operation BlobContainerOperations.lease

## 3.2.0 (2019-04-10)

**Features**

- Added operation BlobContainersOperations.lease for API versions 2018_02_01 and later

## 3.1.1 (2019-01-02)

**Bugfixes**

- Fix #4013 - "use_sub_domain" should be "use_sub_domain_name"

## 3.1.0 (2018-11-15)

**Features**

- Model StorageAccount has a new parameter geo_replication_stats
- Model StorageAccount has a new parameter failover_in_progress
- Added operation StorageAccountsOperations.failover
- Added operation group BlobServicesOperations
- Operation StorageAccountsOperations.get_properties now support expand parameter

## 3.0.0 (2018-09-27)

**Features**

- Model StorageAccount has a new parameter enable_azure_files_aad_integration
- Model StorageAccountCreateParameters has a new parameter enable_azure_files_aad_integration
- Model StorageAccountUpdateParameters has a new parameter enable_azure_files_aad_integration
- Added operation group ManagementPoliciesOperations. This is considered preview and breaking changes might happen.

**Breaking changes**

- "usage" has been renamed "usages", and the "list" operation has been replaced by "list_by_location". Ability to make usage requests
locally is not available anymore.

**Note**
- azure-mgmt-nspkg is not installed anymore on Python 3 (PEP420-based namespace package)

### 2.0.0 (2018-08-01)

**Bugfixes**
- Set the signed resource as optional instead of required

### 2.0.0rc4 (2018-06-26)

**Features (2018-02-01/2018-03-01-preview)**

Support HDFS feature and web endpoint in Account properties
- Model StorageAccountCreateParameters has a new parameter is_hns_enabled
- Model Endpoints has a new parameter web
- Model Endpoints has a new parameter dfs
- Model StorageAccount has a new parameter is_hns_enabled

### 2.0.0rc3 (2018-05-30)

**Features**
- Add preview version of management policy (API 2018-03-01-preview only). This is considered preview and breaking changes might happen if you opt in for that Api Version.

**Bugfixes**
- Correct azure-common dependency

### 2.0.0rc2 (2018-05-16)

**Bugfixes**
- Fix default "models" import to 2018-02-01

### 2.0.0rc1 (2018-05-11)

**Features**
- Add blob containers operations, immutability policy
- Add usage.list_by_location
- Client now supports Azure profiles.
- Client class can be used as a context manager to keep the underlying HTTP session open for performance

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes.

- Model signatures now use only keyword-argument syntax. All positional arguments must be re-written as keyword-arguments. To keep auto-completion in most cases, models are now generated for Python 2 and Python 3. Python 3 uses the "**" syntax for keyword-only arguments.
- Enum types now use the "str" mixin (class AzureEnum(str, Enum)) to improve the behavior when unrecognized enum values are encountered. While this is not a breaking change, the distinctions are important, and are documented here: <https://docs.python.org/3/library/enum.html#others> At a glance:
  - "is" should not be used at all.
  - "format" will return the string value, where "%s" string formatting will return `NameOfEnum.stringvalue`. Format syntax should be preferred.
- New Long Running Operation:
  - Return type changes from `msrestazure.azure_operation.AzureOperationPoller` to `msrest.polling.LROPoller`. External API is the same.
  - Return type is now **always** a `msrest.polling.LROPoller`, regardless of the optional parameters used.
  - The behavior has changed when using `raw=True`. Instead of returning the initial call result as `ClientRawResponse`, without polling, now this returns an LROPoller. After polling, the final resource will be returned as a `ClientRawResponse`.
  - New `polling` parameter. The default behavior is `Polling=True` which will poll using ARM algorithm. When `Polling=False`, the response of the initial call will be returned without polling.
  - `polling` parameter accepts instances of subclasses of `msrest.polling.PollingMethod`.
  - `add_done_callback` will no longer raise if called after polling is finished, but will instead execute the callback right away.

### 1.5.0 (2017-12-12)

**Features**
- Add StorageV2 as valid kind
- Add official support for API version 2017-10-01

### 1.4.0 (2017-09-26)

**Bug fixes**

- Add skus operations group to the generic client

**Features**

- Add official support for API version 2016-01-01

### 1.3.0 (2017-09-08)

**Features**

- Adds list_skus operation (2017-06-01)

**Breaking changes**

- Rename the preview attribute "network_acls" to "network_rule_set"

### 1.2.1 (2017-08-14)

**Bugfixes**

- Remove "tests" packaged by mistake (#1365)

### 1.2.0 (2017-07-19)

**Features**

- Api version 2017-06-01 is now the default
- This API version adds Network ACLs objects (2017-06-01 as preview)

### 1.1.0 (2017-06-28)

- Added support for https traffic only (2016-12-01)

### 1.0.0 (2017-05-15)

- Tag 1.0.0rc1 as stable (same content)

### 1.0.0rc1 (2017-04-11)

**Features**
To help customers with sovereign clouds (not general Azure), this version has official multi ApiVersion support for 2015-06-15 and 2016-12-01

### 0.31.0 (2017-01-19)

- New `list_account_sas` operation
- New `list_service_sas` operation
- Name syntax are now checked before RestAPI call, not the server
  (exception changed)

Based on API version 2016-12-01.

### 0.30.0 (2016-11-14)

- Initial release. Based on API version 2016-01-01 Note that this is the same content as 0.30.0rc6, committed as 0.30.0.

### 0.20.0 (2015-08-31)


Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: License :: OSI Approved :: MIT License
Description-Content-Type: text/markdown

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* /opt/cola/permits/1155895470_1619081295.62/0/azure-mgmt-storage-10-0-0.zip/azure-mgmt-storage-10.0.0/PKG-INFO

1.565 httpcomponents-core 4.4.10

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1.566 netty-buffer 4.1.32.Final

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1.569 sed 4.7 1

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package org.HdrHistogram;

final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}

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1.575 glibc 2.28-10

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/* _setjmp is implemented in setjmp.S */

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/* setjmp is implemented in setjmp.S */

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c5f2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, streambuf, pipe and piostream classes and tests found in the Boost.Process library.
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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* /opt/ws_local/PERMITS_SQL/1094806325_1601321605.83/0/wildfly-elytron-realm-token-1-11-4-final-sources-jar/org/wildfly/security/auth/realm/token/validator/JwkManager.java
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 */
/**
 * <p>The identifier of a client registered within the OAuth2 Authorization Server that will be used to
 * authenticate this server
 * in order to validate bearer tokens arriving to this server.
 *
 * <p>Please note that the client will be usually a confidential client with both an identifier and secret
 * configured in order to
 * authenticate against the token introspection endpoint. In this case, the endpoint must support HTTP BASIC
 * authentication using
 * the client credentials (both id and secret).
 *
 * @param clientId the identifier of a client within the OAuth2 Authorization Server
 * @return this instance
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094806325_1601321605.83/0/wildfly-elytron-realm-token-1-11-4-final-sources-
jar/org/wildfly/security/auth/realm/token/validator/OAuth2IntrospectValidator.java

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Written by: Philip Hazel
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* /opt/cola/permits/1201879935_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/FalseValidator.java
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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/protocol/json/SdkJsonProtocolFactory.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/protocol/json/StructuredJsonGenerator.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/http/JsonResponseHandler.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/protocol/json/SdkCborGenerator.java

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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/internal/http/JsonErrorCodeParser.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTracker.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/http/timers/client/NoOpClientExecutionAbortTrackerTask.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/util/ValidationUtils.java
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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/http/timers/ClientExecutionTimer.java
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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/internal/CustomBackoffStrategy.java
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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/HandlerContextAware.java
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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/auth/profile/securitytoken/STSProfileCredentialsServiceProvider.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/auth/profile/securitytoken/ProfileCredentialsService.java
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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/util/Platform.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/util/LengthCheckInputStream.java

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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/internal/http/IonErrorCodeParser.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/internal/http/ErrorCodeParser.java
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  jar/com/amazonaws/util/URLEncodedUtils.java
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*/
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 * Interface for providing AWS credentials. Implementations are free to use any
 * strategy for providing AWS credentials, such as simply providing static
 * credentials that don't change, or more complicated implementations, such as
 * integrating with existing key management systems.
 */

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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/transform/SimpleTypeUnmarshallers.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/AWSClientException.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/http/HttpMethodName.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/auth/AWSCredentials.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/auth/SigningAlgorithm.java
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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/event/ProgressEvent.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/util/AWSRequestMetrics.java
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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/internal/config/HttpClientConfig.java
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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/monitoring/internal/ClientSideMonitoringRequestHandler.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/handlers/HandlerBeforeAttemptContext.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/waiters/HttpSuccessStatusAcceptor.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/http/AmazonHttpClient.java
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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/transform/MapEntry.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/http/impl/client/HttpRequestNoRetryHandler.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/util/AWSRequestMetricsFullSupport.java
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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/transform/SimpleTypeJsonUnmarshallers.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/waiters/PollingStrategyContext.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/transform/SimpleTypeJsonUnmarshallers.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/waiters/PollingStrategyContext.java
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* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/transform/SimpleTypeJsonUnmarshallers.java
* /opt/cola/permits/1141636850_1615091536.31/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/waiters/PollingStrategyContext.java
1.598 cxf-rt-management 3.3.6

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1.599 wildfly-web 19.1.0.Final

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1.600 x-xerrors 0.0.0-20191204190536-9bdfabe68543

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1.601 unzip 6.0 21.el7

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware): Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
The drop of the reduce method should only affect some test archives,
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For pathologic cases where support for reduced archive entries is
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* MoreFiles
* 
* A collection of File Manager and related routines
* 
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
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* 
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* Basic encoding and decoding of Macintosh files to the
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.602 wildfly-elytron-base 1.11.4.Final

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* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-jar/org/wildfly/security/WildFlyElytronHttpFormProvider.java
* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-jar/org/wildfly/security/WildFlyElytronHttpClientCertProvider.java
* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-jar/org/wildfly/security/WildFlyElytronHttpDigestProvider.java
* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-jar/org/wildfly/security/WildFlyElytronHttpSpnegoProvider.java
* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-jar/org/wildfly/security/WildFlyElytronHttpBearerProvider.java
* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-jar/org/wildfly/security/VersionedProvider.java
* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-jar/org/wildfly/security/WildFlyElytronDigestProvider.java
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* /opt/cola/permits/1120362261_1609938228.13/0/jprocesses-1-6-5-sources-jar/org/jutils/jprocesses/model/ProcessInfo.java
* /opt/cola/permits/1120362261_1609938228.13/0/jprocesses-1-6-5-sources-jar/org/jutils/jprocesses/util/OSDetector.java
* /opt/cola/permits/1120362261_1609938228.13/0/jprocesses-1-6-5-sources-
jar/org/jutils/jprocesses/info/ProcessesFactory.java
* /opt/cola/permits/1120362261_1609938228.13/0/jprocesses-1-6-5-sources-
  jar/org/jutils/jprocesses/JProcesses.java
* /opt/cola/permits/1120362261_1609938228.13/0/jprocesses-1-6-5-sources-
  jar/org/jutils/jprocesses/info/AbstractProcessesService.java
* /opt/cola/permits/1120362261_1609938228.13/0/jprocesses-1-6-5-sources-
  jar/org/jutils/jprocesses/info/ProcessesService.java
* /opt/cola/permits/1120362261_1609938228.13/0/jprocesses-1-6-5-sources-
  jar/org/jutils/jprocesses/info/UnixProcessesService.java
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* /opt/cola/permits/1120362261_1609938228.13/0/jprocesses-1-6-5-sources-
  jar/org/jutils/jprocesses/model/WindowsPriority.java

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  jar/org/bouncycastle/apache/bzip2/CBZip2OutputStream.java
* /opt/cola/permits/1142794480_1615477213.6/0/bcpg-jdk15on-1-64-sources-3-
  jar/org/bouncycastle/apache/bzip2/BZip2Constants.java
* /opt/cola/permits/1142794480_1615477213.6/0/bcpg-jdk15on-1-64-sources-3-
  jar/org/bouncycastle/apache/bzip2/CRC.java
* /opt/cola/permits/1142794480_1615477213.6/0/bcpg-jdk15on-1-64-sources-3-
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPLv2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.615 perl 5.26.1 6ubuntu0.5
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\n    Module-Build mailing list at <module-build@perl.org>.","
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
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Ty Coon, President of Vice

That's all there is to it!

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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = ";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.\b(\d{4,})\b/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

1.616 wildfly-pojo 19.1.0.Final

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^L

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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it under the terms of the GNU Lesser General Public License as
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/usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux
distribution or on the World Wide Web at
http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216
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If it's sinful, it's more fun.

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GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

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The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct 1 12:26:03 2007

Open Source Used In SDWan 20.7.1 5682
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
--------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
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Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
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SMTPSVC(6.0.3790.3959);
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Received: from smtp1.srv.mst.edu (131.151.1.43)
  by scanin-ipv6.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
  by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
  for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
  by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
  for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
  by rutherford.zen.co.uk with esmtp (Exim 4.50)
  id 1IcOcX-0004Qt-6L
  for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
  <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
  <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> 
> -------- Forwarded message --------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: Re: cracklib license
> To: alecm@crypto.dircon.co.uk
> 
> > Any chance you could write me a self-contained email stating clearly
> > that the license is being changed to GPL, so I could include that
> > email
> > in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

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1.626 opentelemetry-api 0.6.0
1.626.1 Available under license :

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Found in path(s):
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/correlationcontext/Entry.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/DoubleValueObserver.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/BatchRecorder.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/DoubleValueRecorder.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/DoubleCounter.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/trace/Span.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/trace/spi/TracerProviderFactory.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/trace/TracerProvider.java

Open Source Used In SDWan 20.7.1 5692
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/DefaultMeter.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/LongCounter.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/DoubleSumObserver.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/DefaultMeterProvider.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/LongSumObserver.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/Instrument.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/MeterProvider.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/DefaultMeterProvider.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/DoubleSumObserver.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/LongSumObserver.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/trace/TraceState.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/trace/SpanId.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/trace/Tracer.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/common/AttributeValue.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/trace/TracingContextUtils.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/correlationcontext/EntryMetadata.java

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* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/common/ReadableAttributes.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/trace/attributes/BooleanAttributeSetter.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/trace/attributes/SemanticAttributes.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/LongUpDownCounter.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/trace/attributes/StringAttributeSetter.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/SynchronousInstrument.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/common/ReadableKeyValuePairs.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/trace/attributes/LongAttributeSetter.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/metrics/DoubleUpDownSumObserver.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/trace/attributes/DoubleAttributeSetter.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/common/Labels.java
* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-jar/io/opentelemetry/common/ImmutableKeyValuePairs.java

1.627 neo4j-id-generator 4.1.7

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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VIM REFERENCE MANUAL  by Bram Moolenaar

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==============================================================================
Kibaale Children's Centre*|kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both
parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation
Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used. Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt. For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland. 
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

The e-mail address for sending the money to is:
Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:
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" Vim syntax file
" Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001
" quit when a syntax file was already loaded
if exists("b:current_syntax")
finish
endif
" Product specification files are case sensitive
syn case match
syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor
syn match psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString start=+"+ skip=+\\"+ end=+"+ contained
syn match psfObjTag "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*" contained
syn match psfAttAbbrev ",\<\(fa\|fr\|[aclqrv]\)\(<\|>\|<=\|>=\|=\|==\)[^,]\+" contained
syn match psfObjTags "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*\(\s\+\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9az]\+\)*\)*" contained
syn match psfNumber "\<\d\+\>" contained
syn match psfFloat "\<\d\+\>\(\.\<\d\+\>\)*" contained
syn match psfLongDate "\<\d\d\d\d\d\d\d\d\d\d\d\d\.\d\d\>" contained
syn keyword psfState available configured corrupt installed transient contained
syn keyword psfPState applied committed superseded contained
syn keyword psfBoolean false true contained

Open Source Used In SDWan 20.7.1 5756


"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag

syn region psfAttUnquotString matchgroup=psfAttrib start='^[^\s*[^# \t\n]+[^# # \t\n]' rs=e-1 contains=psfUnquotString,psfComment end='' keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start='^[^\s*[^# \t\n]+[^# # \t\n]' rs=e-1 contains=psfQuotString,psfComment skip='[^\"]' matchgroup=psfQuotString end='"' keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start='^[^\s*[^# \t\n]+[^# # \t\n]' contains=psfObjTag,psfComment end='' keepend oneline

syn region psfAttSpec matchgroup=psfAttrib
start='^[^\s*[^\"]\\(ancestor|applied_patches|applied_to|contents|corequisites|exrequisites|prerequisites|software_spec|supersedes|superseded_by\)\[^\"]' contains=psfObjTag,psfAttAbbrev,psfComment end='' keepend

syn region psfAttTags matchgroup=psfAttrib start='^[^\s*[^\"]\all_filesets\[^\"]' contains=psfObjTags,psfComment end='' keepend

syn region psfAttNumber matchgroup=psfAttrib
start='^[^\s*[^\"]\\(compressed_size|instance_id|media_sequence_number|sequence_number|size\)\[^\"]' contains=psfNumber,psfComment end='' keepend oneline

syn region psfAttTime matchgroup=psfAttrib
start='^[^\s*[^\"]\\(create_time|ctime|mod_time|mtime|timestamp\)\[^\"]' contains=psfNumber,psfComment end='' keepend oneline

syn region psfAttFloat matchgroup=psfAttrib
start='^[^\s*[^\"]\\(data_model_revision|layout_version\)\[^\"]' contains=psfFloat,psfComment end='' keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib
start='^[^\s*[^\"]\install_date\[^\"]' contains=psfLongDate,psfComment end='' keepend oneline

syn region psfAttState matchgroup=psfAttrib
start='^[^\s*[^\"]\state\[^\"]' contains=psfState,psfComment end='' keepend oneline

syn region psfAttPState matchgroup=psfAttrib
start='^[^\s*[^\"]\patch_state\[^\"]' contains=psfPState,psfComment end='' keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib
start='^[^\s*[^\"]\is_kernel|is_locatable|is_patch|is_protected|is_reboot|is_reference|is_secure|is_sparse\[^\"]' contains=psfBoolean,psfComment end='' keepend oneline
syn match psfComment "\#.*$"

" Define the default highlighting.
" Only when an item doesn't have highlighting yet

hi def link psfObject       Statement
hi def link psfAttrib       Type
hi def link psfQuotString   String
hi def link psfObjTag       Identifier
hi def link psfAttAbbrev    PreProc
hi def link psfObjTags      Identifier

hi def link psfComment       Comment

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"

1.629 usbutils 013
1.629.1 Available under license :
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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

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(GENie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.
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 jar/javax/annotation/concurrent/Immutable.java
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Eclipse

The following artifacts are EPL.
  * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
  * org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
  * org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle
The following artifacts are CDDL + GPLv2 with classpath exception. 
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

------

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.
org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

------

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.659 libxcb 1.11.1 1ubuntu1

1.659.1 Available under license:

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1.660 proto-google-common-protos 1.17.0

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Found in path(s):
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-jar/google/api/launch_stage.proto
No license file was found, but licenses were detected in source scan.

/**
 * <pre>
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 * these features, you must sign up in advance and sign a Trusted Tester
 * agreement (which includes confidentiality provisions). These features may
 * be unstable, changed in backward-incompatible ways, and are not
 * guaranteed to be released.
 * </pre>
* <code>EARLY_ACCESS = 1;</code>
*/

Found in path(s):
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/com/google/api/LaunchStage.java
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* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/monitoring.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/control.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/documentation.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/resource.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/type/latlng.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/type/dayofweek.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/type/fraction.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/httpbody.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/log.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/context.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/quota.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/logging/type/http_request.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/auth.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/backend.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/type/postal_address.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/type/quaternion.proto
1.661 wildfly-common 1.5.4.Final
1.661.1 Available under license:

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1.664 x-crypto 0.0.0-20200220183623-bac4c82f6975

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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

http://wiki.apache.org/solr/CommitterInfo

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Woodstox is an XML-parser that allows parsing of XML documents in so-called
pull mode (aka "pull parsing").
It specifically implements StAX 1.0 API:


which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>.

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David Megginson, david@megginson.com
2000-05-05

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VERSION: 2.1 PoliMorf
BUILD: 2016-02-13 19:37:50+01:00
GIT: 6e63b53

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XZ for Java 1.0 (2011-10-22)

http://tukaani.org/xz/java.html

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Byte Buddy is a code generation and manipulation library for creating and modifying Java
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You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source,xml]
----
<copyField source="cat" dest="text" maxChars="30000" />
----

In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before `<<understanding-analyzers-tokenizers-and-filters.adoc#understanding-analyzers-tokenizers-and-filters,analysis>>` is done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued="true"` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the text field:

[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000" />  
----

[IMPORTANT]
====
The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.

====
Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., _you cannot_ copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

[source,xml]

```
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
```

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*/

package org.apache.solr.security;
import java.util.Collection;
import java.util.Collections;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.function.Function;
import java.util.regex.Pattern;
import java.util.stream.Collectors;
import com.google.common.collect.ImmutableSet;
import org.apache.solr.common.SolrException;
import org.apache.solr.common.util.Utils;
import static java.util.Collections.singleton;
import static java.util.Collections.singletonList;
import static org.apache.solr.common.params.CommonParams.NAME;

class Permission {
    String name;
    Set<String> path, role, collections, method;
    Map<String, Function<String[], Boolean>> params;
    PermissionNameProvider.Name wellknownName;
    Map originalConfig;

    private Permission() {
    }

    static Permission load(Map m) {
        Permission p = new Permission();
        p.originalConfig = new LinkedHashMap<>(m);
        String name = (String) m.get(NAME);
        if (!m.containsKey("role")) throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, "role not specified");
        p.role = readValueAsSet(m, "role");
        if (PermissionNameProvider.Name.get(name)!= null) {
            p.wellknownName = PermissionNameProvider.Name.get(name);
        }
        HashSet<String> disAllowed = new HashSet<>(knownKeys);
        disAllowed.remove("role"); // these are the only
        disAllowed.remove(NAME); // allowed keys for well-known permissions
        disAllowed.remove("collection"); // allowed keys for well-known permissions
        for (String s : disAllowed) {
            if (m.containsKey(s)) {
                throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, s + " is not a valid key for the permission : " + name);
            }
        }
    }
}
p.name = name;
p.path = readSetSmart(name, m, "path");
p.collections = readSetSmart(name, m, "collection");
p.method = readSetSmart(name, m, "method");
Map<String, Object> paramRules = (Map<String, Object>) m.get("params");
if (paramRules != null) {
    p.params = new LinkedHashMap<>();
    for (Map.Entry<String, Object> e : paramRules.entrySet()) {
        if (e.getValue() == null) {
            p.params.put(e.getKey(), (String[] val) -> val == null);
        } else {
            List<String> patternStrs = e.getValue() instanceof List ?
                (List) e.getValue() :
                singletonList(e.getValue().toString());
            List patterns = patternStrs.stream()
                .map(it -> it.startsWith("REGEX:")) ?
                Pattern.compile(String.valueOf(it.substring("REGEX:".length()))) :
                it
                .collect(Collectors.toList());
            p.params.put(e.getKey(), val -> {
                if (val == null) return false;
                for (Object pattern : patterns) {
                    if (pattern instanceof String) {
                        if (pattern.equals(s)) return true;
                    } else if (pattern instanceof Pattern) {
                        if (((Pattern) pattern).matcher(s).find()) return true;
                    }
                }
                return false;
            });
        }
    }
    return p;
}

/**
 * This checks for the defaults available other rules for the keys
 */
private static Set<String> readSetSmart(String permissionName, Map m, String key) {
    if(PermissionNameProvider.values.containsKey(permissionName) && !m.containsKey(key) &&
        "collection".equals(key)) {
        return PermissionNameProvider.Name.get(permissionName).collName;
    }
Set<String> set = readValueAsSet(m, key);
if ("method".equals(key)) {
    if (set != null) {
        for (String s : set) if (!HTTP_METHODS.contains(s)) return null;
    }
    return set;
}
return set == null ? singleton(null) : set;
/**
* read a key value as a set. if the value is a single string ,
* return a singleton set
*
* @param m the map from which to lookup
* @param key the key with which to do lookup
*/
static Set<String> readValueAsSet(Map m, String key) {
Set<String> result = new HashSet<>();
Object val = m.get(key);
if (val == null) {
    if("collection".equals(key)) {
        //for collection collection: null means a core admin/ collection admin request
        //otherwise it means a request where collection name is ignored
        return m.containsKey(key) ? singleton(null) : singleton("*");
    }
    return null;
}
if (val instanceof Collection) {
    Collection list = (Collection) val;
    for (Object o : list) result.add(String.valueOf(o));
} else if (val instanceof String) {
    result.add((String) val);
} else {
    throw new RuntimeException("Bad value for : " + key);
}
return result.isEmpty() ? null : Collections.unmodifiableSet(result);
}

@Override
public String toString() {
    return Utils.toJSONString(originalConfig);
}

static final Set<String> knownKeys = ImmutableSet.of("collection", "role", "params", "path", "method",
NAME,"index");
public static final Set<String> HTTP_METHODS = ImmutableSet.of("GET", "POST", "DELETE", "PUT",
"HEAD");
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- /opt/ws_local/PERMITS_SQL/1045091024_1591129365.55/0/opensaml-xacml-api-3-3-1-sources-jar/org/opensaml/xacml/ctx/ResultType.java
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1.668 artemis-tools 2.10.1

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1.670 wildfly-naming-client 1.0.12.Final

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1.671 neo4j-spatial-index 4.1.7

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// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    KeyName *string `json:"KeyName,omitempty" xmlrpc:"KeyName,omitempty"
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Go support for leveled logs, analogous to https://code.google.com/p/google-glog/

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>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96

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>>> client9_misspell-9a1fc2456ac9e8c9b4cbe9d005b6e7adac0d357f

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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tomb - support for clean goroutine termination in Go.

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>>> x_crypto_curve25519-728b753d0135da6801d45a38e6f43ff55779c5c2

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```go
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```

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>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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```bash
>>> x_crypto_poly1305-728b753d0135da6801d45a38e6f43ff55779c5c2
```

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>>> x_crypto_salsa20_salsa-728b753d0135da6801d45a38e6f43ff55779c5c2

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```python
>>> x_crypto_ssh-728b753d0135da6801d45a38e6f43ff55779c5c2
```

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net-a6577fac2d73be281a500b310739095313165611/html/testdata/webkit/README

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+build appengine

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Julian Seward, jseward@bzip.org
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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slave/kpropd_rpc.c
slave/kproplog.c

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Tim Kientzle, February 2009.

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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SHA-1 in C
By Steve Reid <sreid@sea-to-sky.net>
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Compiler: JavaScript

This file contains the methods necessary to implement a simple tree view for the table of content with a resizable splitter and Ajax support to load tree nodes on demand. It also contains the script necessary to do...
full-text searches.

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Written by Gary V. Vaughan, 2004

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>>> libffi-3.2.1-5.ph2

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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Written by Carlos O'Donell <carlos@codesourcery.com>

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chkconfig:   2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
Based on HW's ttl target
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```
linux-esx-4.9.154-1.ph2.src.rpm\linux-esx-4.9.154-1.ph2.src.cpio\linux-4.9.154.tar.xz\linux-4.9.154.tar\arch\m68k\math-emu\fp_log.c
```

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```

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Reasonably optimised generic C-code for memcpy on Microblaze
This is generic C code to do efficient, alignment-aware memcpy.

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bindings\clock\sun4i-a10-pll2.h

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line - read one line


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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen,
but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poe $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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2.32\libmount\python\pylibmount.c

Python bindings for the libmount library.

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Bison implementation for Yacc-like parsers in C


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error.c -- Functions for handling errors.

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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
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The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
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charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

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[This is the first released version of the library GPL. It is
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Preamble

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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------------------- SECTION 6: GNU Lesser General Public License, V3.0 -------------------

GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007
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0. Additional Definitions.

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An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library.

Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

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without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a
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that uses the facility (other than as an argument passed when the
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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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--------------- SECTION 21: SIL Open Font License, V1.1 --------------

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide
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efforts of academic and linguistic communities, and to provide a free and
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-------------------------
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1.675 stax-mapper 1.3.0.Final

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1.676 jta 5.10.1.Final

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1.677 python-setuptools 1.11.2

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1.678 elfutils 0.173

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1.679 xerces-j 2.12.0.SP02

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1.680 neo4j-graphdb-api 4.1.7

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Requests includes some vendorized python libraries to ease installation.

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- `analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishMinimalStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

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1.696 gophercloud 0.1.0
1.696.1 Available under license :

package RESOURCE

import (  
"github.com/gophercloud/gophercloud"
"github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result

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// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:”next”`
            Previous string `json:”previous”`
        } `json:”links”`
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    } else {
        return s.Links.Next, nil
    }
}
Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.
We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource.
However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.
Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.
Use the following `git` workflow to implement this method:

```
  ```
  $ git checkout master
  $ git pull
  $ git checkout -b identityv3-regions-create
  $(write your code)
  $ git add .
  $ git commit -m "Implementing Regions Create"

  $ git checkout -b identityv3-regions-update
  $(write your code)
  $ git add .
  $ git commit -m "Implementing Regions Update"
  ```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and
proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

-------------------

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   
   a. Unit Tests
   
   b. Code Formatting checks
   
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional
changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is sometimes unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.)
2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

package testing

import ( 
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = ` 
    `{ 
    ` }
`

// GetResult provides a Get result.
const GetResult = `
// CreateRequest provides the input to a Create request.
const CreateRequest = `{
``}
``

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{
``}
``

// UpdateResult provides an update result.
const UpdateResult = `{
``}
``

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}
import (  
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

package RESOURCE

// ListOptsBuilder allows extensions to add additional parameters to 
// the List request

type ListOptsBuilder interface {  
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.

type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {  
    q, err := gophercloud.BuildQueryString(opts)
    return q,String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {  
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {  
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to 
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

goosetesting
import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)
    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)
    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
th.AssertNoErr(t, err)
actual, err := resources.ExtractResources(allPages)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
   th.SetupHTTP()
   defer th.TeardownHTTP()
   HandleGetResourceSuccessfully(t)

   actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
   th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
   th.SetupHTTP()
   defer th.TeardownHTTP()
   HandleCreateResourceSuccessfully(t)

   createOpts := resources.CreateOpts{
      Name: "resource two",
   }

   actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
   th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
   th.SetupHTTP()
   defer th.TeardownHTTP()
   HandleDeleteResourceSuccessfully(t)

   res := resources.Delete(client.ServiceClient(), "9fe1d3")
   th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
   th.SetupHTTP()
   defer th.TeardownHTTP()
   HandleUpdateResourceSuccessfully(t)

   updateOpts := resources.UpdateOpts{
      Description: "Staging Resource",
   }
//...
actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become
unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](https://acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

*/

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 2: Create an Issue

================================

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

---------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
Feature Request

---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.
Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_ , but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:
With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

### Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
    ID       string `json:"id"`
    Name     string `json:"name"`
    AdminStateUp bool     `json:"admin_state_up"`
    Status   string `json:"status"`
    Subnets  []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared   bool     `json:"shared"`
}
```  

to look like

```go
type Network struct {
    ID                    string `json:"id"`
    Name                  string `json:"name"`
    AdminStateUp          bool     `json:"admin_state_up"`
    Status                string `json:"status"`
    Subnets               []string `json:"subnets"`
    TenantID              string `json:"tenant_id"`
    Shared                bool     `json:"shared"`
    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```
We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[string]` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

--------------
OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

==================================

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.697 lucene-sandbox 7.7.0

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1.700 pycparser 2.20

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The following organisations and people have contributed to the Bouncy Castle Cryptography Package.
<p>Thanks, may your castles never deflate!
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<li>Markus Niedermann &lt;markus.niedermann@softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
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<li>Soren Hilmer &lt;hilmer@#064;mail.tele.dk&gt; - initial implementation of netscape certificate request classes.</li>
<li>Uwe Guenther &lt;uwe@#064;cssc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.</li>
<li>Markus Bradtke &lt;mab@#064;informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.</li>
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- Graham Coles &lt;graham.coles#retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.
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- Bryan Lovquist &lt;bkl#blak&.de&gt; - Locale fix for the clean room JCE.
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Pavel Vassiliev &lt;paulvass@064gmail.com&gt; - Initial GOST28147Mac implementation.

Tom Pesman &lt;tom@064tmux.net&gt; - addition of DES-ED3 encryption for RSAPrivate keys to PEMWriter.

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tu-vi cung &lt;t2cung@064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.

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Remi Blancher &lt;Remi.Blancher@064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;bianorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.

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Lawrence Tan &lt;lwrnctan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

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Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc@064bluwein.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

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Karsten Ohme &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp.
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contributions to F2m compression. F2m decoding for ECPPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.


CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos@tradise.com&gt; - patch for &amp;lt;ctrl&amp;gt;&amp;lt;m&amp;gt; only handling in CRLFOutputStream.

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Martijn Brinkers &lt;list@064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

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curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

- Initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

- Patch for alternate data type recognition in CMSSignedDataParser.

- Addition of NotationData packets for OpenPGP.

- Patches towards improved Sun/default provider support in CMS.

- Patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

- Fix to deal with null revocations return from other CRL in X509V2CRLGenerator.

- Correction to excluded DN in name constraints processing for PKIX processing.

- Mask fix to single byte read in TlsInputStream.

- Additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

- Fix for named curve recognition in ECGOST key generation.

- Addition of getTsa() to TimeStampTokenInfo.

- Initial implementation of VMPC cipher, VMPRandomGenerator, VMPMacs.

- Fix for issue in OpenPGP examples [#BJA-55].

- Support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

- Security manager patch for PKCS1Encoding property check.

- Improved exception handling for getInstance() in ASN.1 library.

- Patch to constructor for CRMFCertSequence.

- Identified a bug in ASN.1 library with handling of unterminated NDEF's.

- Patch to TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

- Identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

- Identified problem with EAX [#BJA-93].

- Fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].

- Fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

- Fix to default partial packet generation in BCPGOutputStream.


- Backport for PKIXCertPathValidator and SMIMESignedMailReviewer.
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- **Rui Hodai**: speed ups for Camellia implementation, CamelliaLightEngine.
- **Emir Bucalovic**: initial implementation of Grain-v1 and Grain-128.
- **Torbjorn Svensson**: initial implementation of Grain-v1 and Grain-128.
- **Paul FitzPatrick**: error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
- **Henrik Andersson**: addition of UniqueIssuerID to certificate generation.
- **Cagdas Cirit**: subjectAlternativeName fix for x509CertStoreSelector.
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MAC length check bug fix.

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Peter Jr Halicky &lt;peto@064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.

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Rich DiCroce &lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Björn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Schümmelmann &lt;https://github.com/dschuermann&gt; Method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

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Sergio Giro &lt;sgiro@064google.com&gt; Fixed adding of additional stores from CRL distribution point
Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

bschuette@https://github.com/bschuette: Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSDataParser.

Leonard Dallot@https://github.com/dallotTazTag: Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen @j.w.janssen+bouncycastle@064lxxtreme.nl: Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding @sebastian.oerding@robotron.de: Fixes to toString() in x509.CertificatePolicies.

Kai Kramer @kai.kramer@064gmail.com: Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles @benoit.charles@opentrust.com: Fix for IES data length check on decryption.

Nicholas @nfink95@064gmail.com: fix to cast issue in getOutputSize() for ECIES.

akwizgran@https://github.com/akwizgran: Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.

Matthias Edelhoff @Matthias.Edelhoff@064cryptovision.com: BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat @lukasz.deputat@064gmail.com: Fixed bugs in TlsUtils read methods [#BJA-592].

Justin Ludwig @https://github.com/justinludwig: Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.

Andreas &cacute; Berenguel @https://github.com/aberenguel: Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Slawomir Jaranowski @https://github.com/slawejkjaranowski: Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev @https://github.com/andrey-vasilyev: Initial implementation of GOST R 34.11-2012.

William Glanton @wglanton77@064gmail.com: Fixed bug in Poly1305 [#BJA-620].

jdvorak001@https://github.com/jdvorak001: Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegele @jnaegele@grierforensics.com: Patch for handling multiple certificates in a DANE SMIMEA entry.

Andrew Bonventre @https://github.com/andybons: NullPointer patch for WNafUtil.

The Google Security Team (Project Wycheproof) @https://github.com/google/wycheproof: defect analysis and additional test cases for the provider.

Gorka Irazoqui @girazoki@wpi.edu: from Intel Security Center of Excellence @https://security-center.intel.com/: detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.

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Evangelos Karatsiolis @ekaratsiolis@064grierforensics.com: Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren @https://github.com/VivleSoren: additional constructor for McElieceCCA2PrivateKeyParameters.

mtausig @https://github.com/mtausig: JavaDoc fix for MCSDataGenerator.

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didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.

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codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.

jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.

Scott Woodward &lt;scott@064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.

David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.

chris mccown &lt;0xchrismccown@064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).

ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.

Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion() .

Armin Lunkeit, Michael Tautenhahn &lt;.&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.

Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.

Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd &lt;https://github.com/ekki&gt; Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.

Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.

catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.

fgrieu &lt;fgrieu@064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSAcoreEngine.

MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier &lt;up.gadermaier@064gmail.com&gt; initial version of Argon2 PBKDF algorithm.
<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>
<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>
<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>
<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>
<li>Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.</li>
<li>Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.</li>
<li>Tobias Ospelt &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.</li>
<li>THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.</li>
<li>Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.</li>
<li>gaellalire &lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.</li>
<li>Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
<li>dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>
<li>Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>
<li>Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>
<li>Gsgealy &lt;https://github.com/Gsgealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>
<li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.</li>
<li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
<li>Tobias Ospelt &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>

1.703 listenablefuture 1.0

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* /opt/ws_local/PERMITS_SQL/1012932365_1591900514.54/0/listenablefuture-1-0-sources-
  jar/com/google/common/util/concurrent/ListenableFuture.java

1.704 stateless4j 2.5.0

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* /opt/cola/permits/1150916823_1617719494.06/0/stateless4j-2-5-0-sources-6-
  jar/com/github/oxo42/stateless4j/OutVar.java
* /opt/cola/permits/1150916823_1617719494.06/0/stateless4j-2-5-0-sources-6-
  jar/com/github/oxo42/stateless4j/delegates/FuncBoolean.java
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Last updated: 2009-02-28

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=== EOF ===

1.706 pyopenssl 17.5.0

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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**OW2**

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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**Apache**

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas
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Assorted

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<p>
Class, field, and method level annotations for describing thread-safety policies.
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<p>
Three class-level annotations describe the <em>intended</em> thread-safety promises of a class:
<code>@Immutable</code>, <code>@ThreadSafe</code>, and <code>@NotThreadSafe</code>.<br>
<code>@Immutable</code> means that the class is immutable,<br>and implies <code>@ThreadSafe</code>.<br>
<code>@NotThreadSafe</code> is optional;<br>if a class is not annotated as thread-safe, it should be presumed not to be<br>thread-safe, but if you want to make it extra clear, use<br>
<code>@NotThreadSafe</code>.<br></p>

<p>
These annotations are relatively unintrusive and are beneficial to<br>both users and maintainers. Users can see immediately whether a class<br>is thread-safe, and maintainers can see immediately whether<br>thread-safety guarantees must be preserved. Annotations are also<br>useful to a third constituency: tools. Static code-analysis tools may<br>be able to verify that the code complies with the contract indicated<br>by the annotation, such as verifying that a class annotated with<br><code>@Immutable</code> actually is immutable.
</p>

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The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables. Documenting which variables are guarded by which locks can help prevent both types of omissions.

The <code>@GuardedBy(lock)</code> annotation documents that a field or method should be accessed only with a specific lock held.

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1.713 elasticsearch-cli 6.8.0

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1.714 netty-codec 4.1.51.Final

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jar/io.netty.handler.codec/DefaultHeaders.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io.netty.handler.codec/EmptyHeaders.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io.netty.handler.codec/Headers.java

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jar/io.netty.handler.codec/compression/Crc32c.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io.netty.handler.codec/compression/JdkZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io.netty.handler.codec/xml/XmlFrameDecoder.java

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jar/io/netty/handler/codec/compression/Bzip2BitReader.java
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* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/netty-codec-4.1-51-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/netty-codec-4.1-51-final-sources-
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/netty-codec-4.1-51-final-sources-
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java

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* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/netty-codec-4.1-51-final-sources-
jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/netty-codec-4.1-51-final-sources-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/netty-codec-4.1-51-final-sources-
jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/netty-codec-4.1-51-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/netty-codec-4.1-51-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/netty-codec-4.1-51-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/netty-codec-4.1-51-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/netty-codec-4.1-51-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/netty-codec-4.1-51-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/netty-codec-4.1-51-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java

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A decoder that splits the received [link ByteBuf]s dynamically by the value of the length field in the message. It is particularly useful when you decode a binary message which has an integer header field that represents the length of the message body or the whole message. 

```java
<pre>
<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
</pre>

Because we can get the length of the content by calling [link ByteBuf#readableBytes()], you might want to strip the length field by specifying <tt>initialBytesToStrip</tt>. In this example, we specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* lengthAdjustment. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. lengthAdjustment is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of Header 1)
* initialBytesToStrip = 0
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the lengthFieldOffset and the extra header affects the lengthAdjustment. We also specified a non-zero initialBytesToStrip to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify initialBytesToSkip for initialBytesToStrip.

* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)

```
<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCA</td>
<td>0x0000C</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)

```
<table>
<thead>
<tr>
<th>Length</th>
<th>Header 1</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x0000C</td>
<td>0xCAFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)

```
<table>
<thead>
<tr>
<th>Header 1</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCAFE</td>
<td>0x0000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```
* 2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message

Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into lengthAdjustment.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* 
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>

* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+

@see LengthFieldPrepender
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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 */
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Base64 Encoder/Decoder

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/**
* Utility class for [ @link ByteBuf ] that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
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*/
*/

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* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
  jar/io/netty/handler/codec/base64/Base64.java

### 1.715 jms 5.10.1.Final

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.719 libmnl 1.0.4

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  jar/org/wildfly/security/password/interfaces/RawMaskedPassword.java
* /opt/ws_local/PERMITS_SQL/1094802427_1601321899.51/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/spec/MaskedPasswordAlgorithmSpec.java
* /opt/ws_local/PERMITS_SQL/1094802427_1601321899.51/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/key/RSAParameterSpec.java
* /opt/ws_local/PERMITS_SQL/1094802427_1601321899.51/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/credential/BearerTokenCredential.java
* /opt/ws_local/PERMITS_SQL/1094802427_1601321899.51/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/key/RawPBEKey.java
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  jar/org/wildfly/security/password/spec/IteratedPasswordAlgorithmSpec.java
* /opt/ws_local/PERMITS_SQL/1094802427_1601321899.51/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/interfaces/SimpleDigestPassword.java
* /opt/ws_local/PERMITS_SQL/1094802427_1601321899.51/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/spec/SaltedPasswordAlgorithmSpec.java
* /opt/ws_local/PERMITS_SQL/1094802427_1601321899.51/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/key/RawKey.java
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Jar /org/wildfly/security/key/RSAPrivateCrtKey.java

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1.730 ncurses 6.1

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1.735 libuv 1.11.0

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#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS \
    uv__io_t event_watcher; \

#define UV_IO_PRIVATE_PLATFORM_FIELDS \
    int rcount; \
    int wcount; \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

#include "uv_bsd.h"

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1.736 jackson-databind 2.11.3

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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### 1.737 libgpg-error 1.27

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Initialize empty image
f1c9645dbc14edc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux

-------------------

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
<removed>2 4096 20479 16384 8M a5 FreeBSD

-------------------

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout----------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: bsd

Slice Start  End Sectors  Size Type     Fsize Bsize Cpg  
c  4096  20479  16384    8M unused  0     0     0  
d  0   16064  16065   7.9M unused  0     0     0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Welcome to fdisk <removed>.  
Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors  
Geometry: 255 heads, 63 sectors/track, 1 cylinders  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: bsd

Slice Start  End Sectors  Size Type     Fsize Bsize Cpg  
a  4096   6144  2049    1M 4.2BSD  0     0     0  
c  4096  20479  16384   8M unused  0     0     0  
d  0   16064  16065   7.9M unused  0     0     0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

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1.748 lucene-sandbox 7.7.3

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* https://github.com/jersey/jersey.git

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/**
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* <p>
* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a> compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* @link javax.validation.ParameterNameProvider}. By default, [code arg0], [code arg1] etc.
* will be used as parameter names.
* </p>
* <p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* [@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* ]
* </pre>
* Can be specified on any method or constructor.
* </p>
* 
* @author Gunnar Morling
*/

Found in path(s):
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
* jar/org/hibernate-validator/constraints/ParameterScriptAssert.java
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/**
* Retrieves constraint related meta data for the parameters of the given
* executable.
*
* @param executable The executable of interest.
*
* @return A list with parameter meta data for the given executable.
*/

Found in path(s):
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
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1.760 flink-core 1.11.0

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1.761 datadog-go 2.2.0+incompatible

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Theodore Ts'o  
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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:

tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$ (BSDLIB_LIB)

$(BSDLIB_LIB): $(OBJECTS)
(cd pic; ld -Bshareable -o $(BSDLIB_LIB) $(LDFLAGS_SHLIB) $(OBJECTS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSDLIB_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/internal/ObjectUtil.java

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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/META-INF/maven/io.netty/netty-common/pom.xml

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jar/io/netty/util/internal/logging/FormattingTuple.java
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jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
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jar/io/netty/util/internal/NoOpTypeParameterMatcher.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-
jar/io/netty/util/AbstractReferenceCounted.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-
jar/io/netty/util/internal/ReadOnlyIterator.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-
jar/io/netty/util/ResourceLeak.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-
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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/ReferenceCounted.java

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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java
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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/ResourceLeakHint.java
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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java
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<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
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</properties>
</project>

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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-
jar/io/netty/util/internal/logging/JdkLogger.java
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  jar/io/netty/util/internal/ThreadLocalRandom.java

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1.779 jboss-negotiation-ntlm 3.0.6.Final

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.780 base-files 10.1ubuntu2.11

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the

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Upstream source:
ftp.gnu.org:/pub/gnu/readline/readline-4.3.tar.gz.

Author: Per Bothner

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1.791 esapi 2.0.1
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1.793 cxf-tools-wsdlto-databinding-jaxb 3.3.6

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1.794 flink-annotations 1.11.0

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 */
/*
 * $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas$
 */
package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
public class Version {

/**
   * Get the basic version string for the current Xalan release.
   * Version String formatted like
   * @return String denoting our current version
   */
   public static String getVersion() {
       return getProduct() + getImplementationLanguage() +
               getMajorVersionNum() + getReleaseVersionNum() +
               (getDevelopmentVersionNum() > 0) ?
               ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum());
   }

/**
   * Print the processor version to the command line.
   * @param argv command line arguments, unused.
   */
   public static void main(String argv[]) {
       System.out.println(getVersion());
   }

/**
   * Name of product: Xalan.
   */
   public static String getProduct() {
       return "Xalan";
   }

/**
   * Implementation Language: Java.
   */
   public static String getImplementationLanguage() {
       return "Java";
   }
/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 */
* Optional identifier designates development drop of
* a specific release. D01 is the first development drop
* of a new release.
*
* Development drops are works in progress towards a
* completed, final release. A specific development drop
* may not completely implement all aspects of a new
* feature, which may take several development drops to
* complete. At the point of the final drop for the
* release, the D suffix will be omitted.
*
* Each 'D' drops can contain functional enhancements as
* well as defect fixes. 'D' drops may not be as stable as
* the final releases.
*/

```java
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
```

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*/
/*
**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
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package org.apache.xml.serializer;

public final class Version
{

    public static String getVersion()
    {
        return getProduct() + " +getImplementationLanguage() + "
            +getMajorVersionNum() + ", "
            +getReleaseVersionNum() + ", "
            +((getDevelopmentVersionNum() > 0) ? "D" : "")
            +getDevelopmentVersionNum()
            +getMaintenanceVersionNum());
    }

    public static void main(String argv[])
    {
        System.out.println(getVersion());
    }
}
/**
 * Name of product: Serializer.
 */

public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */

public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 *   significant, externally apparent enhancement from
 *   the previous release. 'n' represents the n'th
 *   version.
 *   
 *   Clients should carefully consider the implications
 *   of new versions as external interfaces and behaviour
 *   may have changed.
 */

public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 *   - a new set of functionality is to be added, eg,
 *     implementation of a new W3C specification.
 *   - API or behaviour change.
 *   - its designated as a reference release.
 */

public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
* Maintenance Drop Number.
* Optional identifier used to designate maintenance
*   drop applied to a specific release and contains
*   fixes for defects reported. It maintains compatibility
*   with the release and contains no API changes.
*   When missing, it designates the final and complete
*   development drop for a release.
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public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

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 * Development Drop Number.
 * Optional identifier designates development drop of
 *   a specific release. D01 is the first development drop
 *   of a new release.
 *
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 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if (new String("@version.DEVELOPER@").length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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*/

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*/

// Proprietary
/** The 'document-location()' id (Proprietary). */

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jar/org/apache/xml/serializer/output_text.properties
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jar/org/apache/xalan/res/XSLTInfo.properties
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jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/HTMLEntities.properties
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jar/org/apache/xml/serializer/output_html.properties

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*/

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/

class package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.DOM;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {:
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;

  /**
   * Reference to the Parser class.
   */
  private Parser _parser;
  private XSLTC _xsltc;

  /**
   * String representation of the expression being parsed.
   */
  private String _expression;

  /**
   * Line number where this expression/pattern was declared.
   */
  private int _lineNumber = 0;

  /**
   * Reference to the symbol table.
   */
  public SymbolTable _symbolTable;

  public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
  }
  
  public int getLineNumber() {
    return _lineNumber;
  }
public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
    public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
        int nodeType;
        if (test == null) {  // "*"
            nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
        } else if (test instanceof Integer) {
            nodeType = ((Integer) test).intValue();
        } else {
            return new StepPattern(axis, nodeType, predicates);
        }
        return new StepPattern(axis, nodeType, predicates);
    }
QName name = (QName)test;
boolean setPriority = false;

if (axis == Axis.NAMESPACE) {
    nodeType = (name.toString().equals("*")) ? -1 :
        _xsltc.registerNamespacePrefix(name);
}
else {
    final String uri = name.getNamespace();
    final String local = name.getLocalPart();
    final QName namespace_uri =
        _parser.getQNameIgnoreDefaultNs("namespace-uri");

    // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
    if (uri != null && (local.equals("*") || local.equals("@*")) ) {
        if (predicates == null) {
            predicates = new Vector(2);
        }
        // Priority is set by hand if no other predicates exist
        setPriority = (predicates.size() == 0);
        predicates.add(
            new Predicate(
                new EqualityExpr(Operators.EQ,
                    new NamespaceUriCall(namespace_uri),
                    new LiteralExpr(uri))));
    }
    if (local.equals("*")) {
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            NodeTest.ELEMENT;
    }
    else if (local.equals("@*")) {
        nodeType = NodeTest.ATTRIBUTE;
    }
    else {
        nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) :
            _xsltc.registerElement(name);
    }
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }
public int findNodeType(int axis, Object test) {
    if (test == null) { // *
        return (axis == Axis.ATTRIBUTE) ?
            NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    }
    else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("")) ? -1
                : _xsltc.registerNamespacePrefix(name);
        }
        if (name.getNamespace() == null) {
            final String local = name.getLocalPart();
            if (local.equals("")) {
                return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                    NodeTest.ELEMENT;
            } else if (local.equals('@"")) {
                return NodeTest.ATTRIBUTE;
            }
        }

        return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
            : _xsltc.registerElement(name);
    }
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 * *
 * @param lineNumber Line where the current expression is defined.
 * @param external  Set to <tt>true</tt> if this expression is
 * compiled in a separate module.
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                        lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
                        _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    }
}
else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
} else {
   addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep");
    return rlp;
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
        axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;
non terminal Object NodeTest, NameTest;
non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;
non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;
precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;
precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;
start with TopLevel;
TopLevel ::= PATTERN Pattern:pattern
    { : RESULT = pattern; : }
    | EXPRESSION Expr:expr
    { : RESULT = expr; : };
/* --------------------------- Patterns ----------------------------------- */
Pattern ::= LocationPathPattern:lpp
    { : RESULT = lpp; : }
    | LocationPathPattern:lpp VBAR Pattern:p
    { : RESULT = new AlternativePattern(lpp, p); : };
LocationPathPattern ::= SLASH
    { : RESULT = new AbsolutePathPattern(null); : }
    | SLASH RelativePathPattern:rpp
:: RESULT = new AbsolutePathPattern(rpp); ::

| IdKeyPattern:ikp
| :: RESULT = ikp; ::

| IdKeyPattern:ikp SLASH RelativePathPattern:rpp
| :: RESULT = new ParentPattern(ikp, rpp); ::

| IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
| :: RESULT = new AncestorPattern(ikp, rpp); ::

| DSLASH RelativePathPattern:rpp
| :: RESULT = new AncestorPattern(rpp); ::

| RelativePathPattern:rpp
| :: RESULT = rpp; ::;

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
| :: RESULT = new IdPattern(l);
| parser.setHasIdCall(true);
| ::

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
| :: RESULT = new KeyPattern(l1, l2); ::;

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
| :: RESULT = new ProcessingInstructionPattern(l); ::;

RelativePathPattern ::= StepPattern:sp
| :: RESULT = sp; ::

| StepPattern:sp SLASH RelativePathPattern:rpp
| :: RESULT = new ParentPattern(sp, rpp); ::

| StepPattern:sp DSLASH RelativePathPattern:rpp
| :: RESULT = new AncestorPattern(sp, rpp); ::;

StepPattern ::= NodeTestPattern:nt
| ::
| RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
| ::

| NodeTestPattern:nt Predicates:pp
| ::
| RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
| ::

| ProcessingInstructionPattern:pip
| ProcessingInstructionPattern: pip Predicates: pp
| : RESULT = (ProcessingInstructionPattern) pip.setPredicates(pp); :

| ChildOrAttributeAxisSpecifier: axis NodeTestPattern: nt
| : RESULT = parser.createStepPattern(axis.intValue(), nt, null);
| :

| ChildOrAttributeAxisSpecifier: axis
| NodeTestPattern: nt Predicates: pp
| : RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
| :

| ChildOrAttributeAxisSpecifier: axis ProcessingInstructionPattern: pip
| : RESULT = pip; // TODO: report error if axis is attribute
| :

| ChildOrAttributeAxisSpecifier: axis ProcessingInstructionPattern: pip Predicates: pp
| :
  // TODO: report error if axis is attribute
  RESULT = (ProcessingInstructionPattern) pip.setPredicates(pp);
| :

NodeTestPattern ::= NameTestPattern: nt
| : RESULT = nt; :

| NODE
| : RESULT = new Integer(NodeTest.ANODE); :

| TEXT
| : RESULT = new Integer(NodeTest.TEXT); :

| COMMENT
| : RESULT = new Integer(NodeTest.COMMENT); :

| PI
| : RESULT = new Integer(NodeTest.PI); :

NameTestPattern ::= STAR
| : RESULT = null; :

| QName: qn
| : RESULT = qn; :}
ChildOrAttributeAxisSpecifier ::= ATSIGN
   { RESULT = new Integer(Axis.ATTRIBUTE); : }
| CHILD DCOLON
   { RESULT = new Integer(Axis.CHILD); : }
| ATTRIBUTE DCOLON
   { RESULT = new Integer(Axis.ATTRIBUTE); : ; }

Predicates ::= Predicate:p
   {:
    Vector temp = new Vector();
    temp.addElement(p);
    RESULT = temp;
    : }
| Predicate:p Predicates:pp
   { pp.addElementAt(p, 0); RESULT = pp; : ; }

Predicate ::= LBRACK Expr:e RBRACK
   {:
    RESULT = new Predicate(e);
    : ; }

/* --------------------------- Expressions --------------------------------- */
Expr ::= OrExpr:ex
   { RESULT = ex; : ; }
OrExpr ::= AndExpr:ae
   { RESULT = ae; : }
| OrExpr:oe OR AndExpr:ae
   { RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); : ; }
AndExpr ::= EqualityExpr:e
   { RESULT = e; : }
| AndExpr:ae AND EqualityExpr:ee
   { RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); : ; }
EqualityExpr ::= RelationalExpr:re
   { RESULT = re; : }
| EqualityExpr:ee EQ RelationalExpr:re
   { RESULT = new EqualityExpr(Operators.EQ, ee, re); : ; }
EqualityExpr::ee NE RelationalExpr::re
{ :: RESULT = new EqualityExpr(Operators.NE, ee, re); :: };

RelationalExpr ::= AdditiveExpr::ae
{ :: RESULT = ae; :: }

| RelationalExpr::re LT AdditiveExpr::ae
{ :: RESULT = new RelationalExpr(Operators.LT, re, ae); :: }

| RelationalExpr::re GT AdditiveExpr::ae
{ :: RESULT = new RelationalExpr(Operators.GT, re, ae); :: }

| RelationalExpr::re LE AdditiveExpr::ae
{ :: RESULT = new RelationalExpr(Operators.LE, re, ae); :: }

| RelationalExpr::re GE AdditiveExpr::ae
{ :: RESULT = new RelationalExpr(Operators.GE, re, ae); :: };

AdditiveExpr ::= MultiplicativeExpr::me
{ :: RESULT = me; :: }

| AdditiveExpr::ae PLUS MultiplicativeExpr::me
{ :: RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); :: }

| AdditiveExpr::ae MINUS MultiplicativeExpr::me
{ :: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :: };

MultiplicativeExpr ::= UnaryExpr::ue
{ :: RESULT = ue; :: }

| MultiplicativeExpr::me MULT UnaryExpr::ue
{ :: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :: }

| MultiplicativeExpr::me DIV UnaryExpr::ue
{ :: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :: }

| MultiplicativeExpr::me MOD UnaryExpr::ue
{ :: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :: };

UnaryExpr ::= UnionExpr::ue
{ :: RESULT = ue; :: }

| MINUS UnaryExpr::ue
{ :: RESULT = new UnaryOpExpr(ue); :: };

UnionExpr ::= PathExpr::pe
{ :: RESULT = pe; :: }
PathExpr::= LocationPath::lp
{ RESULT = lp; : }

| FilterExpr::fexp
{ RESULT = fexp; : }

| FilterExpr::fexp SLASH RelativeLocationPath::rlp
{ RESULT = new FilterParentPath(fexp, rlp); : }

| FilterExpr::fexp DSLASH RelativeLocationPath::rlp
{:
  // Expand '// into '/descendant-or-self::node()' or
  // into /descendant-or-self::*'/
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
  {
    nodeType = DTM.ELEMENT_NODE;
  }
  final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
  FilterParentPath fpp = new FilterParentPath(fexp, step);
  fpp = new FilterParentPath(fpp, rlp);
  if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
  }
  RESULT = fpp;
:};

LocationPath ::= RelativeLocationPath::rlp
{ RESULT = rlp; : }

| AbsoluteLocationPath::alp
{ RESULT = alp; : }

RelativeLocationPath ::= Step::step
{ RESULT = step; : }

| RelativeLocationPath::rlp SLASH Step::step
{:
  if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    RESULT = step; // Remove '.' from the middle
  }
  else if (((Step) step).isAbbreviatedDot()) {

RESULT = rlp;

// Remove '/.' from the end

}
else {
RESULT =
new ParentLocationPath((RelativeLocationPath) rlp, step);
}
:}
| AbbreviatedRelativeLocationPath:arlp
{: RESULT = arlp; :};
AbsoluteLocationPath ::= SLASH
{: RESULT = new AbsoluteLocationPath(); :}
| SLASH RelativeLocationPath:rlp
{: RESULT = new AbsoluteLocationPath(rlp); :}
| AbbreviatedAbsoluteLocationPath:aalp
{: RESULT = aalp; :};
AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
{:
final Step right = (Step)step;
final int axis = right.getAxis();
final int type = right.getNodeType();
final Vector predicates = right.getPredicates();
if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
// Compress './/child:E' into 'descendant::E' - if possible
if (predicates == null) {
right.setAxis(Axis.DESCENDANT);
if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
RESULT = right;
}
else {
// Expand 'rlp//child::E' into 'rlp/descendant::E'
RelativeLocationPath left = (RelativeLocationPath)rlp;
RESULT = new ParentLocationPath(left, right);
}
}
else {
// Expand './/step' -> 'descendant-or-self::*/step'
if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
Step left = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);
RESULT = new ParentLocationPath(left, right);
}
else {

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RelativeLocationPath left = (RelativeLocationPath) rlp;
Step mid = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);
ParentLocationPath ppl = new ParentLocationPath(mid, right);
RESULT = new ParentLocationPath(left, ppl);
}
}
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*//step'
    RelativeLocationPath left = (RelativeLocationPath) rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()//step'
    RelativeLocationPath left = (RelativeLocationPath) rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
    DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
};

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
    {:
        //
        // Expand '// into '/descendant-or-self::node()/' or
        // into /descendant-or-self::*/
        //
        int nodeType = DOM.NO_TYPE;
        if (rlp instanceof Step &&
            parser.isElementAxis(((Step) rlp).getAxis()))
        {
            nodeType = DTM.ELEMENT_NODE;
        }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
        RESULT = new AbsoluteLocationPath(parser.insertStep(step,
            (RelativeLocationPath) rlp));
    };

Step ::= NodeTest:ntest
    {:
        if (ntest instanceofof Step) {
RESULT = (Step)ntest;
}
else {
RESULT = new Step(Axis.CHILD,
    parser.findNodeType(Axis.CHILD, ntest),
    null);
}
:}

| NodeTest:ntest Predicates:pp |
| NodeTest:ntest Predicates:pp |
{: if (ntest instanceof Step) {
    Step step = (Step)ntest;
    step.addPredicates(pp);
    RESULT = (Step)ntest;
}
else {
    RESULT = new Step(Axis.CHILD,
        parser.findNodeType(Axis.CHILD, ntest), pp);
}
:}

| AxisSpecifier:axis NodeTest:ntest Predicates:pp |
{: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest), pp);
:}

| AxisSpecifier:axis NodeTest:ntest |
{: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
    null);
:}

| AbbreviatedStep:abbrev |
{: RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON |
{: RESULT = an; :}

| ATSIGN |
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::= ANCESTOR |
{: RESULT = new Integer(Axis.ANCESTOR); :}

| ANCESTORORSELF |
{: RESULT = new Integer(Axis.ANCESTORORSELF); :}
AbbreviatedStep ::=: DOT
   { : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : }

AbbreviatedStep ::=: DDOT
   { : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : }

FilterExpr ::=: PrimaryExpr:primary
   { : RESULT = primary; : }

FilterExpr ::=: PrimaryExpr:primary Predicates:pp
   { : RESULT = new FilterExpr(primary, pp); : }

PrimaryExpr ::=: VariableReference:vr
   { : RESULT = vr; : }
/*
 * If the string appears to have the syntax of a QName, store
 * namespace info in the literal expression. This is used for
 * element-available and function-available functions, among
 * others. Also, the default namespace must be ignored.
 */
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);

<table>
<thead>
<tr>
<th align="left">INT:num</th>
</tr>
</thead>
</table>
| long \(value\) = num.longValue();
| if \((value < \text{Integer.MIN\_VALUE} \text{\ or } value > \text{Integer.MAX\_VALUE})\) \{RESULT = new RealExpr(value);\} 
| else \{ 
| \hspace{1em}if \((num.doubleValue() == -0)\) \{RESULT = new RealExpr(num.doubleValue());\} 
| \hspace{1em}else if \((num.intValue() == 0)\) \{RESULT = new IntExpr(num.intValue());\} 
| \hspace{1em}else if \((num.doubleValue() == 0.0)\) \{RESULT = new RealExpr(num.doubleValue());\} 
| \hspace{1em}else \{RESULT = new IntExpr(num.intValue());\} 
| \}

<table>
<thead>
<tr>
<th align="left">REAL:num</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left">RESULT = new RealExpr(num.doubleValue());</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th align="left">FunctionCall:fc</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left">RESULT = fc;</td>
</tr>
</tbody>
</table>

VariableReference ::= DOLLAR VariableName:varName
// An empty qname prefix for a variable or parameter reference
// should map to the null namespace and not the default URI.
SyntaxTreeNode node = parser.lookupName(varName);

if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    }
    else if (node instanceof Param) {
        RESULT = new ParameterRef((Param)node);
    }
    else {
        RESULT = new UnresolvedRef(varName);
    }
}

if (node == null) {
    RESULT = new UnresolvedRef(varName);
}

FunctionCall ::= FunctionName:fname LPAREN RPAREN

if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
    RESULT = new CurrentCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}
else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}

else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

};
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true);  // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
} else {
    RESULT = new FunctionCall(fname, argl);
}

NonemptyArgumentList ::= Argument:arg
{|:
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
|}
| Argument:arg COMMA NonemptyArgumentList:argl
{|: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
{|:
    RESULT = fname;
|};

VariableName ::= QName:vname
{|:
    RESULT = vname;
|};

Argument ::= Expr:ex
{|: RESULT = ex; :};

NodeTest ::= NameTest:nt
{|: RESULT = nt; :}
| NODE
{|: RESULT = new Integer(NodeTest.ANODE); :}
| TEXT
{|: RESULT = new Integer(NodeTest.TEXT); :}
| COMMENT
{|: RESULT = new Integer(NodeTest.COMMENT); :}
| PIPARAM LPAREN Literal:l RPAREN
{|:
QName name = parser.getQNameIgnoreDefaultNs("name");
Expression exp = new EqualityExpr(Operators.EQ,
   new NameCall(name),
   new LiteralExpr(l));
Vector predicates = new Vector();
predicates.addElement(new Predicate(exp));
RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);

| PI
| : RESULT = new Integer(NodeTest.PI); : |

NameTest ::= STAR
| : RESULT = null; : |
| QName:qn
| : RESULT = qn; : |

QName ::= QNAME:qname
| : RESULT = parser.getQNameIgnoreDefaultNs(qname); : |
| DIV
| : RESULT = parser.getQNameIgnoreDefaultNs("div"); : |
| MOD
| : RESULT = parser.getQNameIgnoreDefaultNs("mod"); : |
| KEY
| : RESULT = parser.getQNameIgnoreDefaultNs("key"); : |
| ANCESTOR
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |
| ANCESTORORSELF
| : RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); : |
| ATTRIBUTE
| : RESULT = parser.getQNameIgnoreDefaultNs("attribute"); : |
| CHILD
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |
| DESCENDANT
| : RESULT = parser.getQNameIgnoreDefaultNs("descendant"); : |
| DESCENDANTORSELF
| : RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); : |
| FOLLOWING |
| SUCCESS |

| FOLLOWINGSIBLING |
| SUCCESS |

| NAMESPACE |
| SUCCESS |

| PARENT |
| SUCCESS |

| PRECEDING |
| SUCCESS |

| PRECEDINGSIBLING |
| SUCCESS |

| SELF |
| SUCCESS |

| ID |
| SUCCESS |

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.cup

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*/

// is found, then throw a special exception in order to terminate
/*
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 * limitations under the License.
 */

/**
 * Execute the proprietary document-location() function, which returns
 * a node set of documents.
 * @xsl.usage advanced
 */

Open Source Used In SDWan 20.7.1 8152
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 */

/*
 * $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
 */

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 */

package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;

%%
%cup
%cunicode
%cclass XPathLexer
%cyyeof

{ int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '\t' || c == '\r' || c == '\n' || c == '\f');
    }
}
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }

    // If end of buffer, can't disambiguate :
    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }

    // Return symbol if next token is '::' or '('
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
            yy_buffer[index] == '(') ?
            newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
        case -1:    // first token
            case sym.ATSIGN:
            case sym.DCOLON:
            case sym.LPAREN:
            case sym.LBRACK:
            case sym.COMMA:
            case sym.AND:
            case sym.OR:
            case sym.MOD:
            case sym.DIV:
            case sym.MULT:
            case sym.SLASH:
            case sym.DSLASH:
            case sym.VBAR:
            case sym.PLUS:

            break;
    }

    return newSymbol(ss);  
}

Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
        case -1:    // first token
            case sym.ATSIGN:
            case sym.DCOLON:
            case sym.LPAREN:
            case sym.LBRACK:
            case sym.COMMA:
            case sym.AND:
            case sym.OR:
            case sym.MOD:
            case sym.DIV:
            case sym.MULT:
            case sym.SLASH:
            case sym.DSLASH:
            case sym.VBAR:
            case sym.PLUS:

            break;
    }

    return newSymbol(ss);  
}
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.QNAME, yytext());
}
return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
    case sym.DSLASH:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.STAR);
    }
    return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
}
return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%
%
%eofval{
    return newSymbol(sym.EOF);
}eofval%
%yylexthrow{
    Exception
}yylexthrow%

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00FF\u0100-\u0131\u0134-\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01FF\u01F4-\u01F5\u01FA-\u0217\u0250-\u02A8-\u02BB-\u02C1-\u0386\u0388-\u038A\u038Cu038E-\u03A1\u03A3-\u03CE\u03D0-\u03D6-\u03DE-\u03F3-\u0401-\u040CЎ-\u044F\u0451-\u045Cў-\u0481\u0490-\u04C4\u04C7-\u04C8-\u04CB-\u04CC-\u04D0-\u04EB-\u04F5-\u04F8-\u04F9\u0531-\u0556\u0559-\u0561-\u0586-\u05D0-\u05EA-\u05F0-\u05F2-\u0621-\u063A-\u0641-\u064A-\u0671-\u06B7-\u06BA-\u06BE-\u06C0-\u06CE-\u06D0-\u06D3-\u06D5-\u06D7-\u06E5-\u06E6-\u0939-\u093D-\u0958-\u0961-\u0985-\u098C\u098F-\u0990-\u0993-\u09A8-\u09A9-\u09B0-\u09B2-\u09B6-\u09B9-\u09DC-\u09DD-\u09DF-\u09E1-\u09F1-\u09F0-\u09F1-\u09F0-\u09F1-\u09F0-\u09F1-]


```
NCName=([Letter]|"_"|{NCNameStartChar})({NCNameChar})*
```

```c

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<td>s</td>
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<td>z</td>
<td>122</td>
</tr>
</tbody>
</table>

Open Source Used In SDWan 20.7.1 8157
\[^v^\]*\ [ return newSymbol(sym.Literal, 
   yytext().substring(1, yytext().length() - 1)); ]

\[^v^\]*\ [ return newSymbol(sym.Literal, 
   yytext().substring(1, yytext().length() - 1)); ]

\{Digit\}+ [ return newSymbol(sym.INT, new Long(yytext())); ]

\{Digit\}+\.(\[Digit\]*? [ return newSymbol(sym.REAL, new Double(yytext())); ]

\"\*\{Digit\}+ [ return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); ]

\[ \{NCName\}:\}?\{NCName\} [ return newSymbol(sym.QNAME, yytext()); ]

\{NCName\}:\?)?\* [ return newSymbol(sym.QNAME, yytext()); ]

\{NCName\}:\?)?@* [ return newSymbol(sym.QNAME, yytext()); ]

\[ \[\t\[\r\[\n\[\f\] \{ /* ignore white space. */ /}

. [ throw new Exception(yytext()); ]

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xsltc/compiler/xpath.lex

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*/

/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*
* package org.apache.xalan.processor;
*/

/**
* Administrative class to keep track of the version number of
* the Xalan release.
* <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()
* @xsl.usage general
*/

Open Source Used In SDWan 20.7.1 8159
public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
* Optional identifier used to designate maintenance
*
drop applied to a specific release and contains
*
fixes for defects reported. It maintains compatibility
*
with the release and contains no API changes.
*
When missing, it designates the final and complete
*
development drop for a release.
*/
public static final int MAINTENANCE = @version.MINOR@;
/**
* Development Drop Number.
* Optional identifier designates development drop of
*
a specific release. D01 is the first development drop
*
of a new release.
*
*
Development drops are works in progress towards a
*
compeleted, final release. A specific development drop
*
may not completely implement all aspects of a new
*
feature, which may take several development drops to
*
complete. At the point of the final drop for the
*
release, the D suffix will be omitted.
*
*
Each 'D' drops can contain functional enhancements as
*
well as defect fixes. 'D' drops may not be as stable as
*
the final releases.
*/
public static final int DEVELOPMENT = 0;
/**
* Version String like <CODE>"<B>Xalan</B> <B>Language</B>
* v.r[.dd| <B>D</B>nn]"</CODE>.
* <P>Semantics of the version string are identical to the Xerces project.</P>
*/
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
+VERSION+"."+RELEASE+"."
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
: (""+MAINTENANCE));
}
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sourcesjar/org/apache/xalan/processor/XSLProcessorVersion.src
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/operations/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html

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*/

// Proprietary, built in functions
/** current function string (Proprietary). */
/

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/MessageHandler.java
jar/org/apache/xalan/xslt/dom/LoadDocument.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xslt/runtime/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/NumeratorFormatter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/utils/SerializerMessages_hu.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xslt/runtime/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/Pattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Choose.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/If.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/ObjectFactory.java
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jar/org/apache/xalan/xsltc/dom/MatchingIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/DOMEnhancedForDTM.java
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jar/org/apache/xalan/xsltc/compiler/ErrorMessages.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/If.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/Attributes.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/XSLTErrorResources_en.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc compiler/Choose.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/If.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/ErrorMessages.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/Attributes.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/XSLTErrorResources_en.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc compiler/Choose.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/If.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/ErrorMessages.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/Attributes.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/XSLTErrorResources_en.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc compiler/Choose.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/If.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/ErrorMessages.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
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jar/org/apache/xalan/xsltc/Attributes.java
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jar/org/apache/xalan/xsltc/XSLTErrorResources_en.java
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jar/org/apache/xalan/xsltc compiler/Choose.java
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jar/org/apache/xalan/xsltc/compiler/If.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/ErrorMessages.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/Attributes.java
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jar/org/apache/xalan/xsltc/compiler/If.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/ErrorMessages.java
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jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
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jar/org/apache/xalan/xsltc/Attributes.java
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jar/org/apache/xalan/xsltc/XSLTErrorResources_en.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/BinOpExpr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/ProcessingInstruction.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/NamespaceAlias.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncStartsWith.java
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jar/org/apache/xalan/templates/AbsPathChecker.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/ExpressionNode.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSystemProperty.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/TransletOutput.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncExtFunctionAvailable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_es.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/StylesheetComposed.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessagees_it.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/domapi/XPathNSResolverImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/res/XPATHErrorResources_zh_TW.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/trax/Util.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/ElementAvailableCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/XPathDumper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/VarNameCollector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xalan/processor/ProcessorCharacters.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandlerGeneral.java
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- request:
  body: '{"properties": {"policyType": "Custom", "description": "Don't create a VM anywhere", "policyRule": {"if": {"allOf": [{"source": "action", "equals": "Microsoft.Compute/virtualMachines/write"}, {"field": "location", "in": ["eastus", "eastus2", "centralus"]}]}, "then": {"effect": "deny"}}}}
  headers:
  - application/json
  Accept-Encoding:
  - gzip, deflate
  Connection:
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- request:
  body: null
  headers:
    Accept:
    - application/json
    Accept-Encoding:
    - gzip, deflate
    Connection:
    - keep-alive
    User-Agent:
    - python/3.6.9 (Linux-5.0.0-1032-azure-x86_64-with-Ubuntu-18.04-bionic) msrest/0.6.10
      msrest_azure/0.6.2 azure-mgmt-resource/10.0.0 Azure-SDK-For-Python
      accept-language:
      - en-US
    method: GET

response:
  body:
    string: |
      "value": [{
        "properties": {
          "displayName": "Microsoft Managed Control 1599 - Developer Configuration Management \ Software / Firmware Integrity Verification",
          "policyType": "Static",
          "mode": "Indexed",
          "description": "Microsoft implements this System and Services Acquisition control",
          "metadata": {
            "version": "1.0.0",
            "category": "Regulatory Compliance",
            "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1599"
          },
          "policyRule": {
            "if": {
              "allOf": [
                {
                  "field": "type",
                  "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
                },
                {
                  "value": false,
                  "equals": true
                }
              ]
            },
            "then": {
              "effect": "audit"
            }
          },
          "id": "/providers/Microsoft.Authorization/policyDefinitions/0004bbf0-5099-4179-869e-e9f5f5b0945",
          "type": "Microsoft.Authorization/policyDefinitions",
          "name": "0004bbf0-5099-4179-869e-e9f5f5b0945"
        }
      },
      {
        "properties": {
          "displayName": "Audit virtual machines without disaster recovery configured",
          "policyType": "BuiltIn",
          "mode": "All",
          "description": "Audit virtual machines which do not have disaster recovery configured. To learn more about disaster recovery, visit https://aka.ms/asr-doc.",
          "metadata": {
            "version": "1.0.0",
            "category": "Compute",
            "parameters": [],
            "policyRule": {
              "if": {
                "field": "type",
                "in": ["Microsoft.Compute/virtualMachines", "Microsoft.ClassicCompute/virtualMachines"]
              },
              "then": {
                "effect": "auditIfNotExists",
                "details": {
                  "type": "Microsoft.Resources/links",
                  "existenceCondition": {
                    "field": "name",
                    "like": "ASR-Protection-"
                  }
                }
              }
            },
            "id": "/providers/Microsoft.Authorization/policyDefinitions/0015ea4d-51ff-4ce3-8d8c-f3f80179a56",
            "type": "Microsoft.Authorization/policyDefinitions",
            "name": "0015ea4d-51ff-4ce3-8d8c-f3f80179a56"
          }
        }
      },
      {
        "properties": {
          "displayName": "[Deprecated]: Audit Web Sockets state for a Function App",
          "policyType": "BuiltIn",
          "mode": "All",
          "description": "The Web Sockets protocol is vulnerable to different types of security threats. Use of Web Sockets within an Function app must be carefully reviewed."
        }
      }]
    
Microsoft Managed Control 1375 - Incident Response Assistance | Automation Support For Availability Of Information / Support, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1375"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "Audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/00379355-8932-4b52-b63a-3bc6da3451a", "properties": {"displayName": "Microsoft Managed Control 1605 - Developer Security Testing And Evaluation | Static Code Analysis", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1605"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "Audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/0062eb8b-dc75-4718-8ea5-9bb4a9606655", "properties": {"displayName": "Azure Backup should be enabled for Virtual Machines", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy helps audit if Azure Backup service is enabled for all Virtual machines. Azure Backup is a cost-effective, one-click backup solution simplifies data recovery and is easier to enable than other cloud backup services.", "metadata": {"version": "1.0.0", "category": "Backup"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Compute/virtualMachines"}, "then": {"effect": {"parameters": {"effect": "Audit"}}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/013e242c-8828-4970-87b3-ab247555486d", "properties": {"displayName": "Microsoft Managed Control 1142 - Security Assessment And Authorization Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Security Assessment and Authorization control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1142"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "Audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/01524fa8-4555-48ce-ba5f-c3b8decf5147", "properties": {"displayName": "Microsoft Managed Control 1142 - Security Assessment And Authorization Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Security Assessment and Authorization control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1142"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "Audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/01524fa8-4555-48ce-ba5f-c3b8decf5147", "properties": {"displayName": "Microsoft
Managed Control 1099 - Security Training
Records","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Awareness and Training control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1099"},"policyRule ":{"if":{"allOf":[]},"then":null},"id":"/providers/Microsoft.Authorization/policyDefinitions/01910bab-8639-4bd0-84ef-cc53b24d79ba","type":"Microsoft.Authorization/policyDefinitions","name":"01910bab-8639-4bd0-84ef-cc53b24d79ba"},

Managed Control 1285 - Telecommunications Services | Provider Contingency
Plan","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Contingency Planning control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1285"},"policyRule ":{"if":{"allOf":[]},"then":null},"id":"/providers/Microsoft.Authorization/policyDefinitions/01f7726b-db54-45c2-bcb5-9bd7a43796ee","type":"Microsoft.Authorization/policyDefinitions","name":"01f7726b-db54-45c2-bcb5-9bd7a43796ee"},

Managed Control 1709 - Security Function Verification","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1709"},"policyRule ":{"if":null,"then":null},"id":"/providers/Microsoft.Authorization/policyDefinitions/025992d6-7fee-4137-9bbf-2ffe39c0686c","type":"Microsoft.Authorization/policyDefinitions","name":"025992d6-7fee-4137-9bbf-2ffe39c0686c"},

Managed Control 1052 - Session Lock","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1052"},"policyRule ":{"if":null,"then":null},"id":"/providers/Microsoft.Authorization/policyDefinitions/027cae1c-ec3e-4492-9036-4168d540e42a","type":"Microsoft.Authorization/policyDefinitions","name":"027cae1c-ec3e-4492-9036-4168d540e42a"},

Managed Control 1034 - Least Privilege","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1034"},"policyRule ":{"if":null,"then":null},"id":"/providers/Microsoft.Authorization/policyDefinitions/02a5ed00-6d2e-4e97-9a98-4632c057329","type":"Microsoft.Authorization/policyDefinitions","name":"02a5ed00-6d2e-4e97-9a98-4632c057329"},

Show audit results from Windows VMs on which the remote host connection status does not match the specified one","policyType":"BuiltIn","mode":"All","description":"This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of
auditing Windows virtual machines on which the remote host connection status does not match the specified one. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

```
openSourceUsedInSDWan 20.7.1 8419
```

### Windows Remote Connection

**Policy Rule:**
- `if`: `anyOf`: `[field]: Microsoft.Compute/virtualMachines` and `anyOf`: `[field]: Microsoft.Compute/imagePublisher` with any of the following:
  - `equals`: `Microsoft.WindowsServer`
  - `notLike`: `2008*`
  - `equals`: `Microsoft.SqlServer`
  - `notLike`: `SQL2008*`
  - `equals`: `microsoft-dsvm`
  - `equals`: `dsvm-windows`
- `allOf`: `[field]: Microsoft.Compute/imagePublisher`, `equals`: `microsoft-ads`
- `allOf`: `[field]: Microsoft.Compute/imagePublisher`, `equals`: `batch`
- `allOf`: `[field]: Microsoft.Compute/imageOffer`, `equals`: `rendering-windows2016`
- `allOf`: `[field]: Microsoft.Compute/imageOffer`, `type`: `windows*`
- `allOf`: `[field]: Microsoft.Compute/imagePublisher`, `equals`: `center-for-internet-security-inc`
- `allOf`: `[field]: Microsoft.Compute/imageOffer`, `like`: `cis-windows-server-2016*`
- `allOf`: `[field]: Microsoft.Compute/imagePublisher`, `equals`: `bosh-windows-server*`
- `allOf`: `[field]: Microsoft.Compute/imagePublisher`, `equals`: `cloud-infrastructure-services`
- `allOf`: `[field]: Microsoft.Compute/imageOffer`, `like`: `ad*`
- `allOf`: `[field]: Microsoft.Compute/virtualMachines/sizeProfile.windowsConfiguration` exists: true
- `allOf`: `[field]: Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType` `like`: `Windows*`
- `allOf`: `[field]: Microsoft.Compute/imageSKU`, `exists`: false
- `allOf`: `[field]: Microsoft.Compute/imageSKU`, `notLike`: `2008*`
- `allOf`: `[field]: Microsoft.Compute/imageOffer`, `notLike`: `SQL2008*`
- `allOf`: `[field]: type`, `equals`: `Microsoft.HybridCompute/machines`
- `allOf`: `[field]: Microsoft.HybridCompute/imageOffer`, `like`: `windows*`
- `then`: `effect`: `auditIfNotExists`

**Managed Control 1623 - Boundary Protection**

**Policy Type**: `Static`, **mode**: `Indexed`, **description**: Microsoft implements this System and Communications Protection control.

```
Open Source Used In SDWan 20.7.1 8419
```

**Policy Rule:**
- `if`: `anyOf`: `[field]: Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration` exists: true
- `allOf`: `[field]: Microsoft.Compute/virtualMachines/sizeProfile.osDisk.osType` `like`: `Windows*`
- `allOf`: `[field]: Microsoft.Compute/imageSKU`, `exists`: false
- `allOf`: `[field]: Microsoft.Compute/imageSKU`, `notLike`: `2008*`
- `allOf`: `[field]: Microsoft.Compute/imageOffer`, `notLike`: `SQL2008*`
- `allOf`: `[field]: type`, `equals`: `Microsoft.HybridCompute/machines`
- `allOf`: `[field]: Microsoft.HybridCompute/imageOffer`, `like`: `windows*`
- `then`: `effect`: `auditIfNotExists`

**Managed Control 1515 - Personnel Termination**

**Policy Type**: `Static`, **mode**: `Indexed`, **description**: Microsoft implements this Personnel Security control.

```
Open Source Used In SDWan 20.7.1 8419
```

**Policy Rule:**
- `if`: `anyOf`: `[field]: Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration` exists: true
- `allOf`: `[field]: Microsoft.Compute/virtualMachines/sizeProfile.osDisk.osType` `like`: `Windows*`
- `allOf`: `[field]: Microsoft.Compute/imageSKU`, `exists`: false
- `allOf`: `[field]: Microsoft.Compute/imageSKU`, `notLike`: `2008*`
- `allOf`: `[field]: Microsoft.Compute/imageOffer`, `notLike`: `SQL2008*`
- `allOf`: `[field]: type`, `equals`: `Microsoft.HybridCompute/machines`
- `allOf`: `[field]: Microsoft.HybridCompute/imageOffer`, `like`: `windows*`
- `then`: `effect`: `auditIfNotExists`

**Managed Control 1515 - Personnel Termination**

**Policy Type**: `Static`, **mode**: `Indexed`, **description**: Microsoft implements this Personnel Security control.

```
Open Source Used In SDWan 20.7.1 8419
```
Managed Control 1327 - Authenticator Management | Password-Based Authentication, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1327" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, {"value": "false", "equals": "true"}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/03188d8f-1ae5-4fe1-974d-2d7d32ef937d" }, {"properties": {"displayName": "Microsoft Managed Control 1229 - Information System Component Inventory | No Duplicate Accounting Of Components", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1229" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, {"value": "false", "equals": "true"}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/03752212-103c-4ab8-a306-7e813022ca9d" }, {"properties": {"displayName": "Cognitive Services accounts should restrict network access", "policyType": "BuiltIn", "mode": "Indexed", "description": "Network access to Cognitive Services accounts should be restricted. Configure network rules so only applications from allowed networks can access the Cognitive Services account. To allow connections from specific internet or on-premises clients, access can be granted to traffic from specific Azure virtual networks or to public internet IP address ranges.", "metadata": {"version": "1.0.0", "category": "Cognitive Services" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match"}}, "allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.CognitiveServices/accounts"}, {"field": "Microsoft.CognitiveServices/accounts/networkAcls.defaultAction", "notEquals": "Deny"}], "then": {"effect": ["parameters('effect')"]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/03996055-37a4-45a5-8b70-3f1ca45f87d" }, {"properties": {"displayName": "Microsoft Managed Control 1123 - Audit Review, Analysis, And Reporting | Audit Level Adjustment", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1123" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, {"value": "false", "equals": "true"}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/03996055-37a4-45a5-8b70-3f1ca45f87d" } ], "id": "/providers/Microsoft.Authorization/policyDefinitions/03996055-37a4-45a5-8b70-3f1ca45f87d" } ]}
Managed Control 1227 - Information System Component Inventory | Automated Unauthorized Component Detection

Microsoft implements this Configuration Management control.

Managed Control 1361 - Incident Handling

Microsoft implements this Incident Response control.

Managed Control 1594 - Developer Configuration Management

Microsoft implements this System and Services Acquisition control.

Cosmos DB allowed locations

This policy enables you to restrict the locations your organization can specify when deploying Azure Cosmos DB resources. Use to enforce your geo-compliance requirements.
Transparent Data Encryption (TDE) with your own key support provides increased transparency and control over the TDE Protector, increased security with an HSM-backed external service, and promotion of separation of duties.

managed instance TDE protector should be encrypted with your own key,

Data Encryption (TDE) with your own key support provides increased transparency and control over the TDE Protector, increased security with an HSM-backed external service, and promotion of separation of duties.

or disable the execution of the policy

or disable the execution of the policy

Effect,

Security Center uses the Microsoft Monitoring Dependency Agent to collect network traffic data from your Azure virtual machines to enable advanced network protection features such as traffic visualization on the network map, network hardening recommendations and specific network threats.

Managed instance TDE protector should be encrypted with your own key,

Data Encryption (TDE) with your own key support provides increased transparency and control over the TDE Protector, increased security with an HSM-backed external service, and promotion of separation of duties.

or disable the execution of the policy

or disable the execution of the policy

Effect,

Transparent Data Encryption (TDE) with your own key support provides increased transparency and control over the TDE Protector, increased security with an HSM-backed external service, and promotion of separation of duties.

or disable the execution of the policy

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Data Encryption (TDE) with your own key support provides increased transparency and control over the TDE Protector, increased security with an HSM-backed external service, and promotion of separation of duties.

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Data Encryption (TDE) with your own key support provides increased transparency and control over the TDE Protector, increased security with an HSM-backed external service, and promotion of separation of duties.

or disable the execution of the policy

or disable the execution of the policy

managed instance TDE protector should be encrypted with your own key,
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...
Open Source Used In SDWan 20.7.1
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**Microsoft.Authorization/policyDefinitions**

Policy:

- **Title:** Vulnerability Assessment settings for SQL server should contain an email address to receive scan reports
- **Policy Type:** BuiltIn
- **Mode:** Indexed
- **Description:** Ensure that an email address is provided for the "Send scan reports to" field in the Vulnerability Assessment settings. This email address receives scan result summary after a periodic scan runs on SQL servers.
- **Parameters:**
  - `effect`: has allowed values: AuditIfNotExists and Disabled, with default value: AuditIfNotExists

Policy Rule:

- **If:**
  - `field`: type
  - `equals`: Microsoft.Sql/servers
- **Then:**
  - `effect`: [parameters('effect')]

**Microsoft.Authorization/policyDefinitions**

Policy:

- **Title:** Diagnostic logs in Azure Data Lake Store should be enabled
- **Policy Type:** BuiltIn
- **Mode:** Indexed
- **Description:** Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes when a security incident occurs or when your network is compromised.
- **Parameters:**
  - `effect`: has allowed values: AuditIfNotExists and Disabled, with default value: AuditIfNotExists
  - `requiredRetentionDays`: has type: String, metadata: displayName: Required retention (days), description: Enable or disable the execution of the policy

Policy Rule:

- **If:**
  - `field`: type
  - `equals`: Microsoft.Insights/diagnosticSettings
- **Then:**
  - `effect`: [parameters('effect')]

**Microsoft.Authorization/policyDefinitions**

Policy:

- **Title:** Managed Control 1132 - Protection Of Audit Information | Audit Backup On Separate Physical Systems / Components
- **Policy Type:** Static
- **Mode:** Indexed
- **Description:** Microsoft implements this Audit and Accountability control

Policy Rule:

- **If:**
  - `field`: type
  - `equals`: Microsoft.Resources/subscriptions

---

This extracted text is a natural representation of the content from the given page, focusing on the key details of the policies and their configurations. The policies cover various aspects of cloud management, security, and auditing, with specific provisions for email notification, diagnostic logs, and compliance with regulatory standards.
Managed Control 1332 - Authenticator Management | Password-Based Authentication,
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control",
"metadata": {
"version": "1.0.0", "category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1332",
"policyRule": {
"if": {
"allOf": [{"field": "type", "value": false, "equals": true}],
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/063c3f09-e0f0-4587-8fd5-f4276fae675f"
},

Managed Control 1455 - Physical Access Control,
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control",
"metadata": {
"version": "1.0.0", "category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1455",
"policyRule": {
"if": {
"allOf": [{"field": "type", "value": false, "equals": true}],
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/068260be-a5e6-4b0a-a430-cd27071c226a"
},

Audit SQL DB Level Audit Setting,
"policyType": "BuiltIn", "mode": "All", "description": "Audit DB level audit setting for SQL databases",
"metadata": {
"version": "1.0.0-deprecated", "category": "SQL", "deprecated": true,
"parameters": {
"setting": {
"type": "String",
"metadata": {
"displayName": "Audit Setting",
"allowedValues": ["enabled", "disabled"]
}
},
"policyRule": {
"if": {
"allOf": [{"field": "type", "equals": "Microsoft.Sql/servers/databases"},
{"field": "name", "notEquals": "master"}],
"then": {
"effect": "AuditIfNotExists",
"details": {
"type": "Microsoft.Sql/servers/databases/auditingSettings",
"name": "default",
"existenceCondition": {
"allOf": [{"field": "Microsoft.Sql/auditingSettings.state", "equals": ["parameters["setting"]"]}
}
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/06a78e20-9358-41c9-923c-fb736d382a12"
},

Managed Control 1366 - Incident Handling | Information Correlation,
"policyType": "Static", "mode": "Indexed", "description": "Microsoft
implements this Incident Response control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1366"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]}},"then":{"effect":audit}},{"id":"/providers/Microsoft.Authorization/policyDefinitions/06c45c30-ae44-4f0f-82be-41331da911cc","type":"Microsoft.Authorization/policyDefinitions","name":"06c45c30-ae44-4f0f-82be-41331da911cc"},{"properties":{"displayName":"Microsoft Managed Control 1633 - Boundary Protection | Route Traffic To Authenticated Proxy Servers","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1633"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]}},"then":{"effect":audit}},{"id":"/providers/Microsoft.Authorization/policyDefinitions/07557aa0-e02f-4460-9a81-8ecd2fed601a","type":"Microsoft.Authorization/policyDefinitions","name":"07557aa0-e02f-4460-9a81-8ecd2fed601a"},{"properties":{"displayName":"CORS should not allow every resource to access your Function Apps","policyType":"BuiltIn","mode":"Indexed","description":"Cross-Origin Resource Sharing (CORS) should not allow all domains to access your Function app. Allow only required domains to interact with your Function app.","metadata":{}},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"}},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Web/sites"},"field":"kind","like":"functionapp*"]},"then":{"effect":parameters('effect')},"details":{"type":"Microsoft.Web/sites/config","existenceCondition":{"field":"Microsoft.Web/sites/config/web.cors.allowedOrigins[*]","notEquals":"*"}}},{"id":"/providers/Microsoft.Authorization/policyDefinitions/0820b7b9-23aa-4725-a1ce-ae4558f718e5","type":"Microsoft.Authorization/policyDefinitions","name":"0820b7b9-23aa-4725-a1ce-ae4558f718e5"},{"properties":{"displayName":"Deploy Log Analytics agent for Windows VMs","policyType":"BuiltIn","mode":"Indexed","description":"Deploy Log Analytics agent for Windows VMs if the VM Image (OS) is in the list defined and the agent is not installed. The list of OS images will be updated over time as support is updated."},"parameters":{"logAnalytics":{"type":"String","metadata":{}},"listOfImageIdToInclude":{"type":"Array","metadata":{"displayName":"Optional: List of VM images that have supported Windows OS to add to scope"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/1020bb7b-23aa-4725-a1ce-ae4558f718e5"},...
Open Source Used In SDWan 20.7.1

2015-03-20').primarySharedKey']
"outputs": {"policy": {"type": string, "value": [concat("Enabled extension for VM", ":", " parameters("vmName"))]
}}}, "parameters": {"vmName": {"value": [field("name")]
}, "location": {"value": [field("location")]
}, "logAnalytics": {"value": [parameters("logAnalytics")]
}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/0868462e-646c-4fe3-9ced-a733534ba6a2c"}, "type": Microsoft.Authorization/policyDefinitions, "name": ":0868462e-646c-4fe3-9ced-a733534ba6a2c"}, {"properties": {"displayName": Microsoft Managed Control 1583 - Information System Documentation,"policyType": Static,"mode": Indexed,"description": Microsoft implements this System and Services Acquisition control","metadata": {"version": 1.0.0,"category": Regulatory Compliance,"additionalMetadataId": /providers/Microsoft.PolicyInsights/policyMetadata/ACF1583"}, "policyRule": {"if": {"allOf": ["field": type, "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, "value": false, "equals": true]"}, "then": {"effect": audit"}, "id": "/providers/Microsoft.Authorization/policyDefinitions/0882d488-8e80-4466-bc0f-0cd15b6cb66d"}, "type": Microsoft.Authorization/policyDefinitions, "name": ":0882d488-8e80-4466-bc0f-0cd15b6cb66d"}, {"properties": {"displayName": [Deprecated]: Audit Web Applications that are not using latest supported PHP Framework,"policyType": BuiltIn,"mode": All,"description": Use the latest supported PHP version for the latest security classes. Using older classes and types can make your application vulnerable,"metadata": {"version": 1.0.0-deprecated,"category": Security Center,"deprecated": true}, "parameters": {"effect": {"type": String, "metadata": {"displayName": [Deprecated]: Effect,"description": Enable or disable the execution of the policy"}, "allowedValues": [AuditIfNotExists, Disabled], "defaultValue": AuditIfNotExists}, "policyRule": {"if": {"allOf": ["field": type, "equals": microsoft.Web/sites"], "anyOf": ["field": kind, "equals": app], "field": kind, "equals": WebApp], "field": kind, "equals": app,linux}, "field": kind, "equals": app,linux.container}], "then": {"effect": [parameters(effect)], "details": {"type": Microsoft.Security/complianceResults, "name": UseLatestPHP, "existenceCondition": {"field": Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]}], "id": "/providers/Microsoft.Authorization/policyDefinitions/08b17839-76c6-4015-90e0-33d9d54d219c"}, "type": Microsoft.Authorization/policyDefinitions, "name": ":08b17839-76c6-4015-90e0-33d9d54d219c"}, {"properties": {"displayName": Deploy Diagnostic Settings for Search Services to Log Analytics workspace,"policyType": BuiltIn,"mode": Indexed,"description": "Deploys the diagnostic settings for Search Services to stream to a regional Log Analytics workspace when any Search Services which is missing this diagnostic settings is created or updated.", "metadata": {"version": 1.0.0,"category": Monitoring"}, "parameters": {"effect": {"type": String, "metadata": {"displayName": Effect,"description": Enable or disable the execution of the policy"}, "allowedValues": [DeployIfNotExists, Disabled], "defaultValue": DeployIfNotExists}, "profileName": {"type": String, "metadata": {"displayName": Profile name,"description": The diagnostic settings profile name"}, "defaultValue": setbypolicy_logAnalytics"}, "logAnalytics": {"type": String, "metadata": {"displayName": Log Analytics workspace,"description": Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the
policy assignment’s principal
ID: ", "strongType": "omsWorkspace", "assignPermissions": true }, "metricsEnabled": { "type": "String", "metadata": { "displayName": "Enable metrics", "description": "Whether to enable metrics stream to the Log Analytics workspace - True or False" }, "allowedValues": ["True", "False"], "defaultValue": "False" }, "logsEnabled": { "type": "String", "metadata": { "displayName": "Enable logs", "description": "Whether to enable logs stream to the Log Analytics workspace - True or False" }, "allowedValues": ["True", "False"], "defaultValue": "True" }, "policyRule": { "if": { "field": "type", "equals": "Microsoft.Search/searchServices" }, "then": { "effect": [parameters('effect')], "details": { "type": "Microsoft.Insights/diagnosticSettings", "name": [parameters('profileName')], "existenceCondition": { "allOf": [ { "field": "Microsoft.Insights/diagnosticSettings/logs.enabled", "equals": [parameters('logsEnabled')] }, { "field": "Microsoft.Insights/diagnosticSettings/metrics.enabled", "equals": [parameters('metricsEnabled')] } ] } } }, "roleDefinitionIds": [ "/providers/microsoft.authorization/roleDefinitions/749f88d5-cbae-40b8-bcfc-e573d3c772fa", "/providers/microsoft.authorization/roleDefinitions/92aa0da-9dab-42b6-94a3-d43ce8d16293" ], "deployment": { "properties": { "mode": "incremental", "template": { "$schema": "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": { "resourceName": { "type": "string" }, "location": { "type": "string" }, "logAnalytics": { "type": "string" }, "metricsEnabled": { "type": "string" }, "logsEnabled": { "type": "string" }, "profileName": { "type": "string" } }, "variables": {}, "resources": [ { "type": "Microsoft.Search/searchServices/providers/diagnosticSettings", "apiVersion": "2017-05-01-preview", "name": [concat(parameters('resourceName'), "/Microsoft.Insights", parameters('profileName'))], "location": [parameters('location')], "dependsOn": [], "properties": { "workspaceId": [parameters('logAnalytics')], "metrics": [{ "category": "AllMetrics", "enabled": [parameters('metricsEnabled')], "retentionPolicy": { "enabled": false, "days": 0 } }, { "category": "OperationLogs", "enabled": [parameters('logsEnabled')], "name": [parameters('profileName')], "profiles": [{ "name": [parameters('logAnalytics')], "metricsEnabled": [parameters('metricsEnabled')], "logsEnabled": [parameters('logsEnabled')], "profileName": [parameters('logAnalytics')], "variables": { "value": [parameters('profileName')] } } ] } ] } ], "id": "/providers/Microsoft.Authorization/policyDefinitions/08ba64b8-738f-4918-9686-730d3d75c7d", "type": "Microsoft.Authorization/policyDefinitions", "name": "08ba64b8-738f-4918-9686-730d3d75c7d" }, "outputs": {} } } }, "parameters": { "location": { "value": [field('location')] }, "resourceName": { "value": [field('name')] }, "logAnalytics": { "value": [parameters('logAnalytics')] }, "metricsEnabled": { "value": [parameters('metricsEnabled')] }, "logsEnabled": { "value": [parameters('logsEnabled')] }, "profileName": { "value": [parameters('profileName')] } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/08ba64b8-738f-4918-9686-730d3d75c7d", "type": "Microsoft.Authorization/policyDefinitions", "name": "08ba64b8-738f-4918-9686-730d3d75c7d" }, "properties": { "displayName": "Adaptive Network Hardening recommendations should be applied on internet facing virtual machines", "policyType": "BuiltIn", "mode": "Indexed", "description": "Azure Security Center analyzes the traffic patterns of Internet facing virtual machines and provides Network Security Group rule recommendations that reduce the potential attack surface", "metadata": { "version": "1.0.0", "category": "Security Center" }, "parameters": { "effect": { "type": "String", "metadata": { "displayName": "Effect", "description": "Enable or disable the execution of the policy" }, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists" }, "policyRule": { "if": { "field": "type", "equals": "Microsoft.Compute/virtualMachines" }, "then": { "effect": [parameters('effect')], "details": { "type": "Microsoft.Security/complianceResults", "name": "adaptiveNetworkHardenings", "existenceCondition": { "field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"] } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/08e6af2d-db70-460a-bfe9-d5bd47ba9d6", "type": "Microsoft.Authorization/policyDefinitions", "name": "08e6af2d-db70-460a-bfe9-d5bd47ba9d6" }, "properties": { "displayName": "There should be more than one owner assigned to your subscription", "policyType": "BuiltIn", "mode": "All", "description": "It
is recommended to designate more than one subscription owner in order to have administrator access redundancy. 

Managed Control 1159 - Security

Managed Control 1302 - Identification And Authentication (Org. Users) | Network Access To Non-Privileged Accounts

Managed Control 1502 - Back up copies of data on VMs that are not currently backup copying

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is assigned to not more than 200 VMs. If the policy is assigned for more than 200 VMs, it can result in the backup getting triggered a few hours beyond the defined schedule. This policy will be enhanced to support more VM images.

```
metadata:
  version: "1.0.0",
  category: "Backup",
  parameters:
    vaultLocation: {
      type: "String",
      metadata:
        displayName: "Location",
        description: "Specify the location of the VMs that you want to protect. VMs should be backed up to a vault in the same location. For example - southeastasia",
        strongType: "location"},
    backupPolicyId: {
      type: "String",
      metadata:
        displayName: "Backup Policy (of type Azure VM from a vault in the location chosen above)",
        description: "Specify the id of the Azure backup policy to configure backup of the virtual machines. The selected Azure backup policy should be of type Azure virtual machine.

This policy needs to be in a vault that is present in the location chosen above. For example -

/subscriptions/<SubscriptionId>/resourceGroups/<resourceGroupName>/providers/Microsoft.RecoveryServices/vaults/<VaultName>/backupPolicies/<BackupPolicyName>"},
  effect: "deployIfNotExists",
  policyRule:
    if:
      allOf:
        anyOf:
          anyOf:
            allOf:
              field: Microsoft.Compute/imagePublisher,
              equals: "MicrosoftWindowsServer",
              field: Microsoft.Compute/imageOffer,
              equals: "WindowsServerSemiAnnual",
              field: Microsoft.Compute/imageSKU,
              in: ["Datacenter-Core-1709-skalldisk", "Datacenter-Core-1709-with-Containers-smalkldisk", "Datacenter-Core-1803-Pre-Req-AX7-Onebox-U8"]
```
"/providers/Microsoft.Compute/virtualMachines/"field(name"))][""}}}}}})},"id":"/providers/Microsoft.Authorization/policyDefinitions/09ce66bc-1220-4153-8104-e3f51c936913","type":"Microsoft.Authorization/policyDefinitions","name":"09ce66bc-1220-4153-8104-e3f51c936913"],["properties":{"displayName":"Private endpoint should be enabled for MariaDB servers","policyType":"BuiltIn","mode":"Indexed","description":"This policy audits MariaDB servers not configured to use a private endpoint. For more details, visit https://aka.ms/mariadbprivatelink."},{"id": "/providers/Microsoft.Authorization/policyDefinitions/0a1302fb-a631-4106-9753-f3d494733990","type":"Microsoft.Authorization/policyDefinitions","name":"0a1302fb-a631-4106-9753-f3d494733990"},{"properties":{"displayName":"Microsoft Managed Control 1654 - Voice Over Internet Protocol","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1654"}},"policyRule":{"if":{"allOf": [{"field": "type", "in": ["Microsoft/Resources/subscriptions", "Microsoft/Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "audit"}}},{"id": "/providers/Microsoft.Authorization/policyDefinitions/0a2ee16e-ab1f-414a-800b-d1608835862b","type":"Microsoft.Authorization/policyDefinitions","name":"0a2ee16e-ab1f-414a-800b-d1608835862b"},{"properties":{"displayName":"Microsoft Managed Control 1402 - Controlled Maintenance | Automated Maintenance Activities","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Maintenance control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1402"}},"policyRule":{"if":{"allOf": [{"field": "type", "in": ["Microsoft/Resources/subscriptions", "Microsoft/Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "audit"}}},{"id": "/providers/Microsoft.Authorization/policyDefinitions/0a560d32-8075-4fec-9615-9f7c853f4ea9","type":"Microsoft.Authorization/policyDefinitions","name":"0a560d32-8075-4fec-9615-9f7c853f4ea9"},{"properties":{"displayName":"Audit resource location matches resource group location","policyType":"BuiltIn","mode":"Indexed","description":"Audit that the resource location matches its resource group location"},{"id": "/providers/Microsoft.Authorization/policyDefinitions/0a77fcc7-b8d8-451a-ab52-56197913c0c7","type":"Microsoft.Authorization/policyDefinitions","name":"0a77fcc7-b8d8-451a-ab52-56197913c0c7"},{"properties":{"displayName":"Audit resource location matches resource group location","policyType":"BuiltIn","mode":"Indexed","description":"Audit that the resource location matches its resource group location"}}]
Deploy prerequisites to audit Windows VMs configurations in "System Audit Policies - Account Management". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Account Management". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol,
"/Microsoft.GuestConfiguration/", parameters("configurationName"))]["location": [parameters("location")], "properties": {"guestConfiguration": {"name": [parameters("configurationName")], "version": "1.*" }}, "condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion": "2018-11-20", "type": "Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments", "name": [concat(parameters("vmName"), "/Microsoft.GuestConfiguration/", parameters("configurationName"))], "location": [parameters("location")], "properties": {"guestConfiguration": {"name": [parameters("configurationName")], "version": "1.*" }}, "condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion": "2019-07-01", "type": "Microsoft.Compute/virtualMachines", "identity": {"type": "SystemAssigned"}, "name": [parameters("vmName")], "location": [parameters("location")], "condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion": "2015-05-01-preview", "name": [concat(parameters("vmName"), "/AzurePolicyforWindows")], "type": "Microsoft.Compute/virtualMachines/extensions", "location": [parameters("location")], "properties": {"publisher": "Microsoft.GuestConfiguration", "type": "ConfigurationforWindows", "typeHandlerVersion": "1.1", "autoUpgradeMinorVersion": true, "settings": [], "protectedSettings": []}, "dependsOn": ["[concat("Microsoft.Compute/virtualMachines/", parameters("vmName"), "/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/", parameters("configurationName"))]]"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/0a9991e6-21be-49f9-8916-a06d934bfc29", "type": "Microsoft.Authorization/policyDefinitions", "name": "0a9991e6-21be-49f9-8916-a06d934bfc29"}, {"properties": {"displayName": "Microsoft Managed Control 1044 - Unsuccessful Logon Attempts", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0"}, "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1044"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/0abbac52-57cf-450d-8408-1208d0dd9e90", "type": "Microsoft.Authorization/policyDefinitions", "name": "0abbac52-57cf-450d-8408-1208d0dd9e90"}, {"properties": {"displayName": "Microsoft Managed Control 1253 - Contingency Plan | Resume Essential Missions / Business Functions", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0"}, "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1253"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/0afce0b3-dd9f-42bb-af28-1e4284ba8311", "type": "Microsoft.Authorization/policyDefinitions", "name": "0afce0b3-dd9f-42bb-af28-1e4284ba8311"}, {"properties": {"displayName": "Email notification to subscription owner for high severity alerts should be enabled", "policyType": "BuiltIn", "mode": "All", "description": "Enable emailing security alerts to the subscription owner, in order to have them receive security alert emails from Microsoft. This ensures that they are aware of any potential security issues and can mitigate the risk in a timely fashion", "metadata": {"version": "1.0.0"}, "category": "Security Center"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the"}}}
Managed Control 1046 - Automatic Account Lock | Purge / Wipe Mobile Device

Managed Control 1020 - Account Management | Role-Based Schemes

Key Vault objects should be recoverable

Managed Control 1115 - Audit Review, Analysis, And Reporting
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implements this Configuration Management control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"providers/Microsoft.PolicyInsights/policyMetadata/ACF1239"},"policyRule ":{"if":{"allOf":[]}}}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/0be51298-f643-4556-88af- d7db90794879","name":"0be51298-f643-4556-88af- d7db90794879"},{"properties":{"displayName":"Ensure API app has 'Client Certificates (Incoming client certificates)' set to "On'', 'policyType': 'BuiltIn', 'mode': 'Indexed', 'description': 'Client certificates allow for the app to request a certificate for incoming requests. Only clients that have a valid certificate will be able to reach the app.'},"metadata":{"version":"1.0.0","category":"App Service"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy."}}},"policyRule":{"if":null,"then":null}}]}}},"id":null,"type":null,"name":null"}];


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Managed Control 1713 - Software, Firmware, And Information Integrity | Integrity Checks

Microsoft implements this System and Information Integrity control.

Microsoft Managed Control 1466 - Visitor Access Records

Microsoft implements this Physical and Environmental Protection control.

[Deprecated]: Show audit results from Windows VMs on which Windows Defender Exploit Guard is not enabled

Show audit results from Windows VMs on which Windows Defender Exploit Guard is not enabled. This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines on which Windows Defender Exploit Guard is not enabled. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol
services"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}],{"allOf": [{"anyOf": [{"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration","exists": "true"}, {"field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType","like": "Windows*"}], {"anyOf": [{"field": "Microsoft.Compute/imageSKU","exists": "false"}, {"allOf": [{"field": "Microsoft.Compute/imageSKU","notLike": "2008*"}, {"field": "Microsoft.Compute/imageOffer","notLike": "SQL2008*"}]}]}], {"allOf": [{"field": "type", equals: "Microsoft.HybridCompute/machines"}, {"field": "Microsoft.HybridCompute/imageOffer","like": "windows*"}], then: {"effect": "auditIfNotExists"}, details: {"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments","name": "WindowsDefenderExploitGuard","existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus","equals": "Compliant"}}}]}, id: '/providers/Microsoft.Authorization/policyDefinitions/0d9b45ff-9ddd-43fc-bf59-fbd1c8423053","type": "Microsoft.Authorization/policyDefinitions","name": "0d9b45ff-9ddd-43fc-bf59-fbd1c8423053"}, {"properties": {"displayName": "Managed identity should be used in your Function App","policyType": "BuiltIn","mode": "Indexed","description": "Use a managed identity for enhanced authentication security","metadata": {"version": "1.0.0","category": "App Service"},"parameters": {"effect": {"type": "String","metadata": {"displayName": "Description","description": "Enable or disable the execution of the policy"},"allowedValues": ["AuditIfNotExists","Disabled"],"defaultValue": "AuditIfNotExists"}},"policyRule": {"if": {"allOf": [{"field": "type", equals: "Microsoft.Web/sites"}, {"field": "kind", like: "functionapp*"}], then: {"effect": ["parameters('effect')"],"details": {"type": "Microsoft.Web/sites/config","name": "web","existenceCondition": {"field": "Microsoft.Web/sites/config/managedServiceIdentityId","exists": "true"}}}}}, id: '/providers/Microsoft.Authorization/policyDefinitions/0da106f2-4ca3-48e8-bc85-c638fe6aea8f"}, {"policyType": "BuiltIn","mode": "All","description": "Restrict access to the Kubernetes Service Management API by granting API access only to IP addresses in specific ranges. It is recommended to limit access to authorized IP ranges to ensure that only applications from allowed networks can access the cluster."}, metadata: {"version": "1.0.1-preview","category": "Security Center"}, preview: true"}, parameters: {"effect": {"type": "String","metadata": {"displayName": "Preview"},"description": "Enable or disable the execution of the policy"},"allowedValues": ["Audit","Disabled"],"defaultValue": "Audit"}, policyRule: {"if": {"allOf": [{"field": "type", equals: "Microsoft.ContainerService/managedClusters"}, {"field": "Microsoft.ContainerService/managedClusters/apiServerAccessProfile.authorizedIPRanges","exists": "false"}], then: {"effect": "Audit"}}}}}, id: '/providers/Microsoft.Authorization/policyDefinitions/0e246bcf-5f6f-4f87-bc6f-775d4712c7ea"}, {"policyType": "BuiltIn","mode": "All","description": "Remote debugging should be turned off for Function Apps"}, metadata: {"version": "1.0.0","category": "Security Center"}, preview: true"}, parameters: {"effect": {"type": "String","metadata": {"displayName": "Preview"},"description": "Enable or disable the execution of the policy"},"allowedValues": ["Audit","Disabled"],"defaultValue": "Audit"}, policyRule: {"if": {"allOf": [{"field": "type", equals: "Microsoft.ContainerService/managedClusters"}, {"field": "Microsoft.ContainerService/managedClusters/apiServerAccessProfile.authorizedIPRanges","exists": "false"}], then: {"effect": "Audit"}}}}}, id: '/providers/Microsoft.Authorization/policyDefinitions/0e246bcf-5f6f-4f87-bc6f-775d4712c7ea"}, {"policyType": "BuiltIn","mode": "Indexed","description": "Remote
debugging requires inbound ports to be opened on function apps. Remote debugging should be turned off.

Parameters:
- **type**: String
- **metadata**: 
  - **displayName**: Event
  - **description**: Enable or disable the execution of the policy
- **allowedValues**: [AuditIfNotExists, Disabled]
- **defaultValue**: AuditIfNotExists

Policy Rule:
- **if**: 
  - **allOf**: 
    - **field**: type, equals: Microsoft.Web/sites
    - **field**: kind, like: functionapp*
  - **then**: 
    - **effect**: 
      - **parameters**
      - **details**: 
        - **field**: Microsoft.Web/sites/config/existenceCondition
          - **equals**: false

ID: /providers/Microsoft.Authorization/policyDefinitions/0e60b895-3786-45da-8377-9c6b4b6ac5f9

metadata:
- **displayName**: Geo-redundant backup should be enabled for Azure Database for MariaDB
- **policyType**: BuiltIn
- **mode**: Indexed
- **description**: This policy audits any Azure Database for MariaDB with geo-redundant backup not enabled.
- **metadata**: 
  - **version**: 1.0.0
  - **category**: SQL
- **parameters**: 
  - **effect**: String
  - **metadata**: 
    - **displayName**: Effect
    - **description**: Enable or disable the execution of the policy
    - **allowedValues**: [Audit, Disabled]
    - **defaultValue**: Audit

Policy Rule:
- **if**: 
  - **allOf**: 
    - **field**: type, equals: Microsoft.DBforMariaDB/servers
    - **field**: Microsoft.DBforMariaDB/servers/storageProfile/geoRedundantBackup, notEquals: Enabled
  - **then**: 
    - **effect**: 
      - **parameters**

ID: /providers/Microsoft.Authorization/policyDefinitions/0ec47710-77ff-4a3d-9181-6aa50af424d0

metadata:
- **displayName**: Deploy prerequisites to enable Guest Configuration Policy on Windows VMs.
- **policyType**: BuiltIn
- **mode**: Indexed
- **description**: This policy creates a system-assigned managed identity and deploys the VM extension for Guest Configuration on Windows VMs. This is a prerequisite for Guest Configuration Policy and must be assigned to the scope before using any Guest Configuration policy.
- **metadata**: 
  - **version**: 1.1.0
  - **category**: Guest Configuration
  - **requiredProviders**: Microsoft.GuestConfiguration
  - **policyRule**: 
    - **if**: 
      - **allOf**: 
        - **field**: type, equals: Microsoft.Compute/virtualMachines
        - **anyOf**: 
          - **field**: Microsoft.Compute/imagePublisher, in: [esri, incredibuild, Microsoft Dynamics AX, Microsoft Sharepoint, Microsoft Visual Studio, Microsoft Windows Desktop, Microsoft Windows Server HPC Pack]
          - **field**: Microsoft.Compute/imagePublisher, equals: Microsoft Windows Server
          - **field**: Microsoft.Compute/imageOffer, notLike: SQL2008*
        - **allOf**: 
          - **field**: Microsoft.Compute/imagePublisher, equals: MicrosoftSQLServer
          - **field**: Microsoft.Compute/imageOffer, notLike: SQL2008*
          - **allOf**: 
            - **field**: Microsoft.Compute/imagePublisher, equals: Microsoft-dsvm
            - **field**: Microsoft.Compute/imageOffer, equals: dsvm-windows
        - **allOf**: 
          - **field**: Microsoft.Compute/imagePublisher, equals: microsoft-ads
          - **allOf**: 
            - **field**: Microsoft.Compute/imagePublisher, equals: batch
            - **field**: Microsoft.Compute/imageOffer, equals: rendering-windows2016*
        - **allOf**: 
          - **field**: Microsoft.Compute/imagePublisher, equals: center-for-internet-security-inc
          - **field**: Microsoft.Compute/imageOffer, like: cis-windows-server-201* *
          - **allOf**: 
            - **field**: Microsoft.Compute/imagePublisher, equals: pivotal
            - **field**: Microsoft.Compute/imageOffer, like: bosh-windows-server *
          - **allOf**: 
            - **field**: Microsoft.Compute/imagePublisher, equals: cloud-infrastructure-services
          - **field**: Microsoft.Compute/imageOffer, like: ad *
          - **allOf**: 
            - **anyOf**: 
              - **field**: Microsoft.Comp
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Microsoft Managed Control 1204 - Access Restrictions For Change | Review System Changes, policyType: "Static", mode: "Indexed", description: "Microsoft implements this Configuration Management control. metadata: {"version": "1.0.0", "category": "Regulatory Compliance"}, additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1204, policyRule: {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/subscriptionGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}, id: /providers/Microsoft.Authorization/policyDefinitions/0f4f6750-d1ab-4a4c-8dfd-af3237682665, type: "Microsoft.Authorization/policyDefinitions", name: "0f4f6750-d1ab-4a4c-8dfd-af3237682665", properties: {"displayName": "Microsoft Managed Control 1204 - Access Restrictions For Change | Review System Changes"},


Microsoft Managed Control 1164 - Continuous Monitoring, policyType: "Static", mode: "Indexed", description: "Microsoft implements this Security Assessment and Authorization control. metadata: {"version": "1.0.0", "category": "Regulatory Compliance"}, additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1164, policyRule: {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/subscriptionGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}, id: /providers/Microsoft.Authorization/policyDefinitions/0fb8d3ce-9e96-481c-9c68-88d4e3019310, type: "Microsoft.Authorization/policyDefinitions", name: "0fb8d3ce-9e96-481c-9c68-88d4e3019310", properties: {"displayName": "Microsoft Managed Control 1164 - Continuous Monitoring"},

Microsoft Managed Control 1017 - Account Management | Inactivity Logout, policyType: "Static", mode: "Indexed", description: "Microsoft implements this Access Control control. metadata: {"version": "1.0.0", "category": "Regulatory Compliance"}, additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1017, policyRule: {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/subscriptionGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}, id: /providers/Microsoft.Authorization/policyDefinitions/0f3c4ac2-3e35-4906-a80b-473b12a622d7, type: "Microsoft.Authorization/policyDefinitions", name: "0f3c4ac2-3e35-4906-a80b-473b12a622d7", properties: {"displayName": "Microsoft Managed Control 1017 - Account Management | Inactivity Logout"}

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Managed Control 1087 - Security Awareness And Training Policy And Procedures

Microsoft implements this Awareness and Training control, which requires the metadata:

- **version**: "1.0.0"
- **category**: "Regulatory Compliance"
- **additionalMetadataId**: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1087"

**Policy Rule**

```json
"if":
    
    "allOf":
    
    "field": "type",
    "in": 
    
    ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]
    
    "value": "false",
    
    "equals": "true"
    
    "then":
    
    "effect": "audit"

"id": 
    
    
    /providers/Microsoft.Authorization/policyDefinitions/0fc3db37-e59a-48c1-84e9-1780ced409e",
    
    "type": "Microsoft.Authorization/policyDefinitions",
    
    "name": "0fc3db37-e59a-48c1-84e9-1780ced409e";

```

**Policy Details**

- **DisplayName**: Microsoft Managed Control 1087 - Security Awareness And Training Policy And Procedures
- **PolicyType**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Awareness and Training control
- **Metadata**
  - **Version**: 1.0.0
  - **Category**: Regulatory Compliance
  - **Required Providers**: 
    - Microsoft.GuestConfiguration
  - **Preview**: True
- **Parameters**
  - **CertificateThumbprints**
    - **Type**: String
    - **Description**: A semicolon-separated list of certificate thumbprints that should exist under the Trusted Root certificate store.

**Policy Violations**

- Windows VMs should not contain the specified certificates in Trusted Root.
- The policy creates a Guest Configuration assignment to audit Windows VMs that do not contain the specified certificates in the Trusted Root Certification Authorities certificate store (Cert:\LocalMachine\Root).
- It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration.
- This policy should only be used along with its corresponding audit policy in an initiative.
- For more information on Guest Configuration policies, please visit [https://aka.ms/gcpol](https://aka.ms/gcpol).

**Extensions**

- The policy extension uses the infrastructure services provided by the Guest Configuration service, including the following:
  - Guest Configuration service
  - Azure Resource Manager
  - Azure Key Vault
  - Azure Monitor
  - Azure Storage

**Deployment**

Deploy prerequisites to audit Windows VMs that do not contain the specified certificates in Trusted Root.

```json
"if":


    "anyOf":

    "field": "type",

    "equals": "Microsoft.Compute/virtualMachines"

    "anyOf":

    "field": "Microsoft.Compute/imagePublisher",

    "in": 

    ["esri",
     "incredibuild",
     "MicrosoftDynamicsAX",
     "MicrosoftSharepoint",
     "MicrosoftVisualStudio",
     "MicrosoftWindowsDesktop",
     "MicrosoftWindowsServerHPCPack"],

    "allOf":

    "field": "Microsoft.WindowsServer",

    "equals": "MicrosoftWindowsServer",

    "field": "Microsoft.Compute/imageSKU",

    "notLike": "2008*"

    "allOf":

    "field": "Microsoft.SqlServer",

    "field": "Microsoft.Compute/imageOffer",

    "notLike": "SQL2008*"

    "allOf":

    "field": "Microsoft.Compute/imagePublisher",

    "equals": "microsoft-dsvm",

    "field": "Microsoft.Compute/imageOffer",

    "equals": "dsvm-windows-2016"

    "allOf":

    "field": "Microsoft.Compute/imagePublisher",

    "equals": "microsoft-ads"

    "field": "Microsoft.Compute/imageOffer",

    "in": 

    ["standard-data-science-vm", "windows-data-science-vm"]

    "allOf":

    "field": "Microsoft.Compute/imagePublisher",

    "equals": "batch"

    "field": "Microsoft.Compute/imageOffer",

    "equals": "rendering-windows2016"

    "allOf":

    "field": "Microsoft.Compute/imagePublisher",

    "equals": "center-for-internet-security-inc"

    "field": "Microsoft.Compute/imageOffer",

    "like": "cis-windows-server-201*"

    "allOf":

    "field": "Microsoft.Compute/imagePublisher",

    "equals": "pivotal"

    "field": "Microsoft.Compute/imageOffer",

    "like": "bosh-windows-server-*"

    "allOf":

    "field": "Microsoft.WebSitesDeployment"
parameters("CertificateThumbprints")])"}), "deployment": {"properties": {"mode": "incremental", "parameters": {"vmName": {"value": {"field": "name"}}, "location": {"value": {"field": "location"}}, "type": {"value": {"field": "type"}}, "configurationName": {"value": "WindowsCertificateInTrustedRoot"}, "CertificateThumbprints": {"value": {"parameters": {"type": "string"}, "location": {"type": "string"}, "configurationName": {"type": "string"}, "CertificateThumbprints": {"type": "string"}, "resources": {"condition": {"equals": {"toLower": {"parameters": "type"}}}, toLower("Microsoft.HybridCompute/machines"))}, "apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", "name": {[concat(parameters("vmName"))]}, "Microsoft.GuestConfiguration"}, parameters("configurationName")}], "location": {"parameters": "location"}, "properties": {"guestConfiguration": {"name": {"parameters": "configurationName"}, "version": "1.*", "configurationParameter": {"name": "CertificateStore1;CertificateThumbprintsToInclude", "value": {"parameters": "CertificateThumbprints"}}}], "condition": {"equals": {"toLower": {"parameters": "type"}}}}, toLower("Microsoft.Compute/virtualMachines"))}, "apiVersion": "2019-07-01", "type": "Microsoft.Compute/virtualMachines", "identity": {"type": "SystemAssigned"}, "name": {[concat(parameters("vmName"))]}, "location": {"parameters": "location"}], "condition": {"equals": {"toLower": {"parameters": "type"}}}, toLower("Microsoft.Compute/virtualMachines"))}, "apiVersion": "2015-05-01-preview", "type": "Microsoft.Compute/virtualMachines/extensions", "location": {"parameters": {"location"}}, "properties": {"publisher": "Microsoft.GuestConfiguration", "type": "ConfigurationForWindows", typeHandlerVersion": "1.1", "autoUpgradeMinorVersion": true", "settings": {"protectedSettings": {}}, "dependsOn": {"[concat(Microsoft.Compute/virtualMachines/parameters("vmName"), "/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/parameters("configurationName"))]]]]]]]], "id": {"providers/Microsoft.Authorization/policyDefinitions/106c6be4-4791-4f33-44a-06796944b8d5"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "106c6be4-4791-4f33-44a-06796944b8d5"}, {"properties": {"displayName": "Microsoft Managed Control 1554 - Vulnerability Scanning | Discoverable Information", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Risk Assessment control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1554"}, "policyRule": {"if": {"allOf": {"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/reso"}}}}
that "NET Framework" version is the latest, if used as a part of the Function App," policyType": "BuiltIn", "mode": "Indexed", "description": "Periodically, newer versions are released for .NET Framework software either due to security flaws or to include additional functionality. Using the latest .NET framework version for web apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.", "metadata": {"version": "1.0.0", "category": "App Service"}, "parameters": {"effect": "["type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}], "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "functionapp*"}], "then": {"effect": [{"parameters": "["effect"]"}, "details": {"type": "Microsoft.Web/sites/config", "name": "web", "existenceCondition": {"field": ".NET Framework Version", "in": ["v3.0", "v4.0"]}}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/10c1859c-e1a7-4df3-ab97-a487f8a059f6"}, "type": "Microsoft.Authorization/policyDefinitions"}, "name": "10c1859c-e1a7-4df3-ab97-a487f8a059f6"}, {"properties": {"displayName": "Custom subscription owner roles should not exist.", "policyType": "BuiltIn", "mode": "All", "description": "This policy ensures that no custom subscription owner roles exist.", "metadata": {"version": "1.0.0", "category": "General"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}], "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Authorization/roleDefinitions"}], "then": {"effect": [{"parameters": "["effect"]"}, {"not": {"field": ".NET Framework Version", "in": ["v3.0", "v4.0"]}}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/10ee2ea2-fb4d-45b8-a7e9-a2e770044cd9"}, "type": "Microsoft.Authorization/policyDefinitions"}, "name": "10ee2ea2-fb4d-45b8-a7e9-a2e770044cd9"}, {"properties": {"displayName": "Microsoft Managed Control 1230 - Configuration Management Plan", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1230"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"}], "then": {"effect": "Audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/11158848-f679-4e9b-aa7b-9fb07d945071"}, "type": "Microsoft.Authorization/policyDefinitions"}, "name": "11158848-f679-4e9b-aa7b-9fb07d945071"}, {"properties": {"displayName": "Microsoft Managed Control 1432 - Media Storage", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Media Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1432"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"}], "then": {"effect": "Audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/11158848-f679-4e9b-aa7b-9fb07d945071"}}
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Dependency agent deployment - VM Image (OS)

VMS as non-compliant if the VM Image (OS) is not in the list defined and the agent is not installed. The list of OS images will be updated over time as support is updated.

List of VM images that have supported Windows OS to add to scope:

List of VM images that have supported Linux OS to add to scope:

Example value:

Example value:

Audit

Reports
Microsoft Managed Control 1681 - Malicious Code Protection | Automatic Updates

Microsoft implements this System and Information Integrity control.

Microsoft Managed Control 1240 - User-Installed Software

Microsoft implements this Configuration Management control.

Deploy prerequisites to audit Windows VMs configurations in "Security Options - System objects". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - System objects". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
prerequisites to audit Windows VMs that do not have the specified applications installed", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines that do not have the specified applications installed. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

```
"metadata": {
  "version": "1.1.0",
  "category": "Guest Configuration",
  "requiredProviders": ["Microsoft.GuestConfiguration"],
  "parameters": {
    "installedApplication": {
      "type": "String",
      "metadata": {
        "displayName": "Application names (supports wildcards)",
        "description": "A semicolon-separated list of the names of the applications that should be installed. e.g. "Microsoft SQL Server 2014 (64-bit); Microsoft Visual Studio Code" or "Microsoft SQL Server 2014**"
      }
    }
  }
```

(to match any application starting with "Microsoft SQL Server 2014")

```
"policyRule": {
  "if": {
    "anyOf": {
      "allOf": [{
        "field": "Microsoft.Compute/virtualMachines",
        "anyOf": [{
            "field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {
              "field": "Microsoft.Compute/imageSKU", "notLike": "2008*"}
          ]}, {
            "allOf": [{
              "field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftSQLServer"}, {
                "field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"}
            ]}, {
              "allOf": [{
                "field": "Microsoft.Compute/imagePublisher", "equals": "Microsoft-dsvm"}, {
                  "field": "Microsoft.Compute/imageOffer", "equals": "dsvm-windows"}
                ]}, {
                  "allOf": [{
                    "field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-ads"}, {
                    ]}, {
                      "allOf": [{
                        "field": "Microsoft.Compute/imagePublisher", "equals": "batch"}, {
                          "field": "Microsoft.Compute/imageOffer", "equals": "rendering-windows2016"}
                        ]}, {
                          "allOf": [{
                            "field": "Microsoft.Compute/imagePublisher", "equals": "center-for-internet-security-inc"}, {
                              "field": "Microsoft.Compute/imageOffer", "like": "cis-windows-server-201*"
                            }]
                        }, {
                          "allOf": [{
                            "field": "Microsoft.Compute/imagePublisher", "equals": "pivotal"}, {
                              "field": "Microsoft.Compute/imageOffer", "like": "bosh-windows-server*"
                            }
                          ]}, {
                          "allOf": [{
                            "field": "Microsoft.Compute/imagePublisher", "equals": "cloud-infrastructure-services"}, {
                              "field": "Microsoft.Compute/imageOffer", "like": "ad*"
                            }]
                        }]
                      }, {
                        "allOf": [{
                          "field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "exists": "true"}, {
                            "field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType", "like": "Windows*

```
Managed Control 1184 - Configuration Change

Control", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1184" }, "policyRule": {"if": [{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}], "then": {"effect": audit } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/13579d0e-0ab0-4b26-b0fb-d586f6d7ed20" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "13579d0e-0ab0-4b26-b0fb-d586f6d7ed20" }, {"properties": {"displayName": "Microsoft Managed Control 1085 - Publicly Accessible Content", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1085" }, "policyRule": {"if": [{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}], "then": {"effect": audit } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/13d117e0-38b0-4bbb-aaab-563be5dd10ba" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "13d117e0-38b0-4bbb-aaab-563be5dd10ba" }, {"properties": {"displayName": "Microsoft Managed Control 1404 - Maintenance Tools", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1404" }, "policyRule": {"if": [{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}], "then": {"effect": audit } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/13d8f903-0cd6-449f-a172-50f6579e182b" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "13d8f903-0cd6-449f-a172-50f6579e182b" }, {"properties": {"displayName": "Deploy prerequisites to audit Windows VMs in which the Administrators group contains any of the specified members", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines in which the Administrators group contains any of the specified members. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": {"version": "1.1.0", "category": "Guest Configuration", "requiredProviders": ["Microsoft.GuestConfiguration"] }, "parameters": {"MembersToExclude": {"type": "String", "metadata": {"displayName": "Members"}} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/13fcf812-ec82-4eda-9b89-498de9efd620" }]}
to exclude","description":"A semicolon-separated list of members that should
be excluded in the Administrators local group. Ex: Administrator; myUser1;
myUser2"}}},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines
"},{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","M
icrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]},
{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"field":"Microsoft.
Compute/imageSKU","notLike":"2008*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"Mic
rosoftSQLServer"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]},{"allOf":[{"field":"Micros
ageOffer","equals":"renderingwindows2016"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"center-for-internet-securityinc"},{"field":"Microsoft.Compute/imageOffer","like":"cis-windows-server201*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"pivotal"},{"field":"Microsoft.Compute/
imageOffer","like":"bosh-windowsserver*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructureservices"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}]},{"allOf":[{"anyOf":[{"field":"Microsoft.Comp
ute/virtualMachines/osProfile.windowsConfiguration","exists":"true"},{"field":"Microsoft.Compute/virtualMachine
s/storageProfile.osDisk.osType","like":"Windows*"}]},{"anyOf":[{"field":"Microsoft.Compute/imageSKU","exists
":"false"},{"allOf":[{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"},{"field":"Microsoft.Compute/im
ageOffer","notLike":"SQL2008*"}]}]}]}]}]},{"allOf":[{"field":"type","equals":"Microsoft.HybridCompute/machin
es"},{"field":"Microsoft.HybridCompute/imageOffer","like":"windows*"}]}]},"then":{"effect":"deployIfNotExists"
,"details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab8820f7382dd24c"],"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"AdministratorsGr
oupMembersToExclude","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignm
ents/parameterHash","equals":"[base64(concat(''[LocalGroup]AdministratorsGroup;MembersToExclude'',
''='',
parameters(''MembersToExclude'')))]"},"deployment":{"properties":{"mode":"incremental","parameters":{"vmNam
e":{"value":"[field(''name'')]"},"location":{"value":"[field(''location'')]"},"type":{"value":"[field(''type'')]"},"configur
ationName":{"value":"AdministratorsGroupMembersToExclude"},"MembersToExclude":{"value":"[parameters(''M
embersToExclude'')]"}},"template":{"$schema":"https://schema.management.azure.com/schemas/2015-0101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"vmName":{"type":"string"},"location":{
"type":"string"},"type":{"type":"string"},"configurationName":{"type":"string"},"MembersToExclude":{"type":"str
ing"}},"resources":[{"condition":"[equals(toLower(parameters(''type'')),
toLower(''microsoft.hybridcompute/machines''))]","apiVersion":"2018-1120","type":"Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments","name":"[concat(para
meters(''vmName''),
''/Microsoft.GuestConfiguration/'',
parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
me":"[parameters(''configurationName'')]","version":"1.*","configurationParameter":[{"name":"[LocalGroup]Admi
nistratorsGroup;MembersToExclude","value":"[parameters(''MembersToExclude'')]"}]}}},{"condition":"[equals(to
Lower(parameters(''type'')),
toLower(''Microsoft.Compute/virtualMachines''))]","apiVersion":"2018-1120","type":"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments","name":"[concat(para
meters(''vmName''),

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This policy creates a Guest Configuration assignment to audit Windows virtual machines that do not have a minimum password age of 1 day. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
parameters("configurationName"))], "location": [parameters("location")], "properties": { "guestConfiguration": { "name": [parameters("configurationName")], "version": "1.*" } }, "condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion": "2019-07-01", "type": "Microsoft.Compute/virtualMachines", "identity": { "type": "SystemAssigned" }, "name": [parameters("vmName")], "location": [parameters("location")], "condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion": "2015-05-01-preview", "name": [concat(parameters("vmName"), "/AzurePolicyforWindows")], "type": "Microsoft.Compute/virtualMachines/extensions", "location": [parameters("location")], "properties": { "publisher": "Microsoft.GuestConfiguration", "type": "ConfigurationforWindows", "typeVersion": "1.1", "autoUpgradeMinorVersion": true, "settings": {}, "protectedSettings": {} }, "dependsOn": ["[concat(Microsoft.Compute/virtualMachines/parameters("vmName")/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/parameters("configurationName")])]"], "id": "/providers/Microsoft.Authorization/policyDefinitions/16390df4-2f73-4b42-af13-c801066763df", "type": "Microsoft.Authorization/policyDefinitions", "name": "16390df4-2f73-4b42-af13-c801066763df" } }, "properties": { "displayName": "Microsoft Managed Control 1662 - Fail In Known State", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1662" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": false, "equals": true } ] } }, "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/165cb91f-7ea8-4ab7-beaf-8636b98c9d15", "type": "Microsoft.Authorization/policyDefinitions", "name": "165cb91f-7ea8-4ab7-beaf-8636b98c9d15" }}, "properties": { "displayName": "Microsoft Managed Control 1684 - Information System Monitoring", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1684" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": false, "equals": true } ] } }, "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/16bfdb59-db38-47a5-88a9-2e9371a638cf", "type": "Microsoft.Authorization/policyDefinitions", "name": "16bfdb59-db38-47a5-88a9-2e9371a638cf" }}, "properties": { "displayName": "Show audit results from Windows VMs that do not have the specified Windows PowerShell modules installed", "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that do not have the specified Windows PowerShell modules installed. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": { "version": "1.0.0", "category": "Guest Configuration" }, "policyRule": { "if": { "anyOf": [ { "allOf": [ { "field": "type", "equals": "Microsoft.Compute/virtualMachines" } ], "anyOf": [ { "field": "Microsoft.Compute/imagePublisher", "in": [ "esri", "incredibuild", "MicrosoftDynamicsAX", "MicrosoftSharepoint", "MicrosoftVisualStudio", "MicrosoftWindowsDesktop", "MicrosoftWindowsServerHPCPack" ] }, { "allOf": [ { "field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer" } ], "field": "Microsoft.Compute/imageSKU", "notLike": "2008*" } ] } ] }, "allOf": [ { "field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftSQLServer" } ], "field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*" }], "allOf": [ { "field": "Microsoft.
Microsoft
Managed Control 1103 - Audit Events, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1103"},
"policyRule": {
  "if": {
    "allOf": [{
      "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]},
    {"value": "false", "equals": "true"}],
    "then": {
      "effect": "auditIfNotExists"}
  },
  "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments/assignmentId",
  "existenceCondition": {
    "allOf": [{
      "field": "type", "equals": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus", "equals": "Compliant"}],
    "id": "/providers/Microsoft.Authorization/policyDefinitions/16f9b37c-4408-4c30-bc17-254958f2e2d6",
    "type": "Microsoft.Authorization/policyDefinitions",
    "name": "16f9b37c-4408-4c30-bc17-254958f2e2d6"},
  "properties": {
    "displayName": "Microsoft Managed Control 1103 - Audit Events"}
}}

Managed Control 1007 - Account Management, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1007"},
"policyRule": {
  "if": {
    "allOf": [{
      "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]},
    {"value": "false", "equals": "true"}],
    "then": {
      "effect": "audit"}
  },
  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "16f9b37c-4408-4c30-bc17-254958f2e2d6"},
  "properties": {
    "displayName": "Microsoft Managed Control 1007 - Account Management"}
}}

Managed Control 1349 - Identification And Authentication (Non-Org. Users), "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1349"},
"policyRule": {
  "if": {
    "allOf": [{
      "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]},
    {"value": "false", "equals": "true"}],
    "then": {
      "effect": "audit"}
  },
  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "17200329-bf6c-46d8-ac6d-abf4641c2add"},
  "properties": {
    "displayName": "Microsoft Managed Control 1349 - Identification And Authentication (Non-Org. Users)"}
}}

Open Source Used In SDWan 20.7.1 8462
Deploy associations for a managed application. "Deploy associations for a managed application". This policy deployment does not support nested resource types.

Deploy an association resource that associates selected resource types to the specified managed application. The policy deployment does not support nested resource types.

"Target Managed Application ID", "Description": "Resource ID of the managed application to which resources need to be associated.

"Resource Types To Associate", "Description": "The list of resource types to be associated to the managed application.

"Association Name Prefix", "Description": "Prefix to be added to the name of the association resource being created.

"Default Value": "DeployedByPolicy"

"Policy Rule": "If": "field": "type", "in": "resourceTypesToAssociate" Then": "Effect": "deployIfNotExists" Details": "Type": "Microsoft.CustomProviders/Associations", "Name": "concat(parameters("associationNamePrefix"), ",")"

"Role Definition Ids": "/providers/Microsoft.Authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd24e"

"Deployment": 

"Properties": { "Mode": "Incremental", "Template": "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "Content Version": "1.0.0.0", "Parameters": { "Associated Resource Name": { "Type": "String", "Resource Types To Associate": { "Type": "String", "Target Managed Application Id": { "Type": "String", "Association Name Prefix": { "Type": "String", "Variables": { "Resource Type": "[concat(parameters("resourceTypesToAssociate"), ",")]", "Resource Name": "[concat(parameters("associatedResourceName"), ",")]", "Resource Providers": parameters("associationNamePrefix"), ",")" }, "ResourceId": parameters("Target Managed Application Id") }, "Name": "[concat(deployment().Name, ",")]" }, "Mode": "Incremental" } "Properties": { "Target Resource Id": "{parameters("Target Managed Application Id")}"

"Parameters": { "Resource Types To Associate": { "Value": "{field("type")}" }, "Associated Resource Name": { "Value": "{field("name")}" }, "Target Managed Application Id": { "Value": "{parameters("Target Managed Application Id")}" }, "Association Name Prefix": { "Value": "{parameters("associationNamePrefix")}" }, "Id": "/providers/Microsoft.Authorization/policyDefinitions/17763ad9-70c0-4794-9397-53d765932634", "Type": "Microsoft.Authorization/policyDefinitions", "Name": "17763ad9-70c0-4794-9397-53d765932634", "Properties": { "DisplayName": "Transparent Data Encryption on SQL databases should be enabled", "Policy Type": "BuiltIn", "Mode": "Indexed", "Description": "Transparent data encryption should be enabled to protect data-at-rest and meet compliance requirements."

Data Encryption on SQL databases should be enabled. "Policy Type": "BuiltIn", "Mode": "Indexed", "Description": "Transparent data encryption should be enabled to protect data-at-rest and meet compliance requirements."
Managed Control 1325 - Authenticator

Managed Control 1480 - Temperature And Humidity

Managed Control 1369 - Incident Monitoring

Managed Control 1325 - Authentication

Managed Control 1480 - Physical and Environmental Protection

Managed Control 1369 - Incident Response
Managed Control 1269 - Alternate Storage Site | Separation From Primary Site

implements this Contingency Planning control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1269" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/19b9439d-865d-4474-b17d-97d2702fdb66" }, "properties": {"displayName": "Microsoft Managed Control 1269 - Alternate Storage Site | Separation From Primary Site" }

Managed Control 1071 - Wireless Access | Restrict Configurations By Users

implements this Access Control control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1071" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/1a437f5b-9ad6-4f28-8861-de404d511ae4" }, "properties": {"displayName": "Microsoft Managed Control 1071 - Wireless Access | Restrict Configurations By Users" }

Monitor log profile should collect logs for categories "write," "delete," and "action". This policy ensures that a log profile collects logs for categories "write," "delete," and "action".

Metro-Cluster Repository | Increase Capacity

Access to App Services should be restricted. Security center has discovered that the networking configuration of some of your app services are overly permissive and allow inbound traffic from ranges that are too broad.

Open Source Used In SDWan 20.7.1 8465
Vulnerability assessment should be enabled on your SQL managed instances. Audit SQL managed instances which do not have recurring vulnerability assessment scans enabled. Vulnerability assessment can discover, track, and help you remediate potential database vulnerabilities.

Audit SQL managed instances which do not have recurring vulnerability assessment scans enabled. Vulnerability assessment can discover, track, and help you remediate potential database vulnerabilities.

Periodically, newer versions are released for PHP software either due to security flaws or to include additional functionality. Using the latest PHP version for API apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.

Deploy Dependency agent for Windows VMs if the VM Image (OS) is in the list defined and the agent is not installed. The list of OS images will be updated over time as support is updated.

Deployment agent for Windows VMs if the VM Image (OS) is in the list defined and the agent is not installed.

List of VM images that have supported Windows OS to add to scope.
Managed Control 1072 - Wireless Access | Antennas / Transmission Power Levels

Managed Control 1656 - Secure Name / Address Resolution Service (Authoritative Source)

Managed Control 1592 - External Information System Services | Consistent Interests

Managed Control 1088 - Security Awareness And Training Policy And Procedures

Managed Control 1538 - Security Categorization

Virtual
machines should be migrated to new Azure Resource Manager resources", "policyType": "BuiltIn", "mode": "All", "description": "Use new Azure Resource Manager for your virtual machines to provide security enhancements such as: stronger access control (RBAC), better auditing, Azure Resource Manager based deployment and governance, access to managed identities, access to key vault for secrets, Azure AD-based authentication and support for tags and resource groups for easier security management", "metadata": {"version": "1.0.0", "category": "Compute"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match"}}, "allowedValues": [{"Audit", "Deny", "Disabled"}], "defaultValue": "Audit"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": "[Microsoft.ClassicCompute/virtualMachines", "Microsoft.Compute/virtualMachines"]", "value": "[field("type")]", "equals": "Microsoft.ClassicCompute/virtualMachines"]}, "then": {"effect": ["parameters(effect)"]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/1d84d5fb-01f6-4d12-ba4f-4a26081d403d", "type": "Microsoft.Authorization/policyDefinitions", "name": "1d84d5fb-01f6-4d12-ba4f-4a26081d403d"}, {"properties": {"displayName": "Microsoft Managed Control 1298 - Identification And Authentication Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1298"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": "[Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]", "value": "false", "equals": "true"}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/1dc784b5-4895-4d27-9d40-a06b032bd1ee", "type": "Microsoft.Authorization/policyDefinitions", "name": "1dc784b5-4895-4d27-9d40-a06b032bd1ee"}, {"properties": {"displayName": ["Deprecated"]: Audit API Applications that are not using latest supported .NET Framework", "policyType": "BuiltIn", "mode": "All", "description": "Use the latest supported .NET Framework version for the latest security classes.

Using older classes and types can make your application vulnerable.", "metadata": {"version": "1.0.0-deprecated", "category": "Security Center", "deprecated": true}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": ["Deprecated"]: Effect", "description": "Enable or disable the execution of the policy"}}, "allowedValues": [{"AuditIfNotExists", "Disabled"}], "defaultValue": "AuditIfNotExists"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"anyof": [{"field": "kind", "equals": "api"}, {"field": "kind", "equals": "apiApp"}]]}, "then": {"effect": "UseLatestDotNet"}, "details": {"type": "Microsoft.Security/complianceResults", "name": "UseLatestDotNet", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/1de7b11d-1870-41a5-8181-507eC663Cf8", "type": "Microsoft.Authorization/policyDefinitions", "name": "1de7b11d-1870-41a5-8181-507eC663Cf8"}, {"properties": {"displayName": "Microsoft Managed Control 1595 - Developer Configuration Management", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1595"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/1e0414e7-6e5f-4182-8076-
Open Source Used In SDWan 20.7.1

Azure Active Directory administrator should be provisioned for SQL servers, "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit provisioning of an Azure Active Directory administrator for your SQL server to enable Azure AD authentication. Azure AD authentication enables simplified permission management and centralized identity management of database users and other Microsoft services.", "parameters": {
    "effect": {
        "type": "String",
        "metadata": {
            "displayName": "Effect",
            "description": "Enable or disable the execution of the policy"
        },
        "allowedValues": [
            "AuditIfNotExists",
            "Disabled"
        ],
        "defaultValue": "AuditIfNotExists"
    },
    "profileName": {
        "type": "String",
        "metadata": {
            "displayName": "Profile name",
            "description": "The diagnostic settings profile name"
        },
        "defaultValue": "setbypolicy_logAnalytics"
    },
    "logAnalytics": {
        "type": "String",
        "metadata": {
            "displayName": "Log Analytics workspace",
            "description": "Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment’s principal ID.",
            "strongType": "omsWorkspace",
            "assignPermissions": true
        }
    },
    "metricsEnabled": {
        "type": "String",
        "metadata": {
            "displayName": "Enable Diagnostic Settings for Event Hub to Log Analytics workspace",
            "description": "Deploys the diagnostic settings for Event Hub to stream to a regional Log Analytics workspace when any Event Hub which is missing this diagnostic settings is created or updated.",
            "allowedValues": [
                "DeployIfNotExists",
                "Disabled"
            ],
            "defaultValue": "DeployIfNotExists"
        }
    }
}

[Raw Text]
metrics", "description": "Whether to enable metrics stream to the Log Analytics workspace - True or False"},
    "allowedValues": ["True", "False"],
    "defaultValue": "False"},
  "logsEnabled": {
    "type": "String",
    "metadata": {
      "displayName": "Enable logs",
      "description": "Whether to enable logs stream to the Log Analytics workspace - True or False"},
    "allowedValues": ["True", "False"],
    "defaultValue": "True"}
}

"if": {
    "field": "type",
    "equals": "Microsoft.EventHub/namespaces"},
"then": {
    "effect": [parameters('effect')],
    "details": {
      "type": "Microsoft.Insights/diagnosticSettings",
      "name": [parameters('profileName')]
    },
    "condition": [{
      "field": "Microsoft.Insights/diagnosticSettings/logs.enabled",
      "equals": [parameters('logsEnabled')],
      "field": "Microsoft.Insights/diagnosticSettings/metrics.enabled",
      "equals": [parameters('metricsEnabled')]
    }]
  }
}

"parameters": {
  "resourceName": {
    "type": "string"
  },
  "location": {
    "type": "string"
  },
  "logAnalytics": {
    "type": "string"
  },
  "metricsEnabled": {
    "type": "string"
  },
  "logsEnabled": {
    "type": "string"
  },
  "profileName": {
    "type": "string"
  }
}

"outputs": {
  "name": [concat(parameters('resourceName'), "/Microsoft.Insights/" , parameters('profileName'))],
  "location": [parameters('location')],
  "dependsOn": [],
  "properties": {"workspaceId": [parameters('logAnalytics')],
    "metrics": {
      "category": "AllMetrics",
      "enabled": [parameters('metricsEnabled')]
    },
    "retentionPolicy": {
      "enabled": false,
      "days": 0
    },
    "logs": {
      "category": "ArchiveLogs",
      "enabled": true,
      "retentionPolicy": {
        "enabled": false,
        "days": 0
      },
      "category": "OperationalLogs",
      "enabled": [parameters('logsEnabled')]
    },
    "category": "AutoScaleLogs",
    "enabled": [parameters('logsEnabled')]
  }
}

"parameters": {
  "ShutdownAllowSystemToBeShutDownWithoutHavingToLogOn": {
    "type": "String",
    "metadata": {
      "displayName": "Allow system to be shut down without having to log on",
      "description": "Specifies whether a computer can be shut down when a user is not logged on. If this policy setting is enabled, the shutdown command is available on the Windows logon..."}

Open Source Used In SDWan 20.7.1 8471
Shutdown: Clear virtual memory pagefile

Shutdown: Clear virtual memory pagefile

Specifies whether the virtual memory pagefile is cleared when the system is shut down. When this policy setting is enabled, the system pagefile is cleared each time that the system shuts down properly. For systems with large amounts of RAM, this could result in substantial time needed to complete the shutdown.

Policy Rule:

If:

- anyOf:
  - allOf:
    - field: "type"
      equals: "Microsoft.Compute/virtualMachines"
    - anyOf:
      - allOf:
        - field: "Microsoft.Compute/imagePublisher"
          in: [
            "esri",
            "incredibuild",
            "MicrosoftDynamicsAX",
            "MicrosoftSharepoint",
            "MicrosoftVisualStudio",
            "MicrosoftWindowsDesktop",
            "MicrosoftWindowsServerHPCPack"
          ]
        - allOf:
          - field: "Microsoft.Compute/imagePublisher"
            equals: "MicrosoftWindowsServer"
          - field: "Microsoft.Compute/imageSKU"
            notLike: "2008*
        - allOf:
          - field: "Microsoft.Compute/imagePublisher"
            equals: "MicrosoftSQLServer"
          - field: "Microsoft.Compute/imageOffer"
            notLike: "SQL2008*
        - allOf:
          - field: "Microsoft.Compute/imagePublisher"
            equals: "microsoft-dsvm"
          - field: "Microsoft.Compute/imageOffer"
            equals: "dsvm-windows"
          - allOf:
            - field: "Microsoft.Compute/imagePublisher"
              equals: "microsoft-ads"
            - field: "Microsoft.Compute/imageOffer"
              in: [
                "standard-data-science-vm",
                "windows-data-science-vm"
              ]
          - allOf:
            - field: "Microsoft.Compute/imagePublisher"
              equals: "batch"
            - field: "Microsoft.Compute/imageOffer"
              equals: "rendering-windows2016"
          - allOf:
            - field: "Microsoft.Compute/imagePublisher"
              equals: "center-for-internet-security-inc"
            - field: "Microsoft.Compute/imageOffer"
              like: "cis-windows-server-201*
          - allOf:
            - field: "Microsoft.Compute/imagePublisher"
              equals: "pivotal"
            - field: "Microsoft.Compute/imageOffer"
              like: "bosch-windows-server-
          - allOf:
            - field: "Microsoft.Compute/imagePublisher"
              equals: "cloud-infrastructure-services"
            - field: "Microsoft.Compute/imageOffer"
              like: "ad*
          - allOf:
            - field: "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration"
              exists: true
            - field: "Microsoft.Compute/virtualMachine/
              storageProfile.osDisk.osType"
              like: "Windows*
          - allOf:
            - field: "Microsoft.Compute/imageSKU"
              exists: false
            - field: "Microsoft.Compute/imageSKU"
              notLike: "2008*
          - field: "Microsoft.Compute/imageOffer"
            notLike: "SQL2008*"
        - allOf:
          - field: "Microsoft.Compute/imagePublisher"
            equals: "MicrosoftHybridCompute/machines"
          - field: "Microsoft.Compute/imageOffer"
            like: "windows*
        - then: effect: deployIfNotExists
details:
  - roleDefinitionIds: ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-
    20f7382dd24c"
  - type: "Microsoft.GuestConfiguration/guestConfigurationAssignments"
    name: "AzureBaseline_SecurityOptionsShutdown"
    existenceCondition:
      - field: "Microsoft.GuestConfiguration/guestConfigurationAssignments/parametersHash"
        equals: "[base64(concat("Shutdown:
          Allow system to be shut down without having to log on: ExpectedValue", ";",
          parameters("ShutdownAllowSystemToBeShutDownWithoutHavingToLogOn"), ";",
          "Shutdown: Clear virtual memory pagefile: ExpectedValue", ";",
          parameters("ShutdownClearVirtualMemoryPagefile")))]"
      - deployment:
        - properties:
          - mode: incremental
          - parameters: ["vmName", "location", "type"]
          - configurationName: ["AzureBaseline_SecurityOptionsShutdown",
            "ShutdownAllowSystemToBeShutDownWithoutHavingToLogOn",
            "ShutdownClearVirtualMemoryPagefile"
          ]
          - template: ["https://schema.management.azure.com/schemas/2015-01-
            01/deploymentTemplate.json#", "contentVersion": "1.0.0.0",
            "parameters": ["vmName", "location", "type"],
            "configurationName": ["type"],
            "ShutdownAllowSystemToBeShutDownWithoutHavingToLogOn",
            "ShutdownClearVirtualMemoryPagefile"
          ]
          - apiVersion: "2018-11-
implements this System and Communications Protection control,
"metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1650" },
"policyRule": {
"if": {
"allOf": [
{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]},
{"value": false, "equals": true}
]
},
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/201d3740-bd16-4baf-b4b8-7da352228b7",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "201d3740-bd16-4baf-b4b8-7da352228b7" },
"properties": {
"displayName": "[Deprecated]: Web ports should be restricted on Network Security Groups associated to your VM",
"policyType": "BuiltIn",
"mode": "All",
"description": "Azure security center has discovered that some of your virtual machines are running web applications, and the NSGs associated to these virtual machines are overly permissive with regards to the web application ports",
"metadata": {
"version": "1.0.0-deprecated",
"category": "Security Center",
"deprecated": true
}
},
"parameters": {
"effect": {
"type": "String",
"metadata": {
"displayName": "[Deprecated]: Effect",
"description": "Enable or disable the execution of the policy"
}
},
"allowedValues": ["AuditIfNotExists", "Disabled"],
"defaultValue": "Disabled"
},
"policyRule": {
"if": {
"field": "type",
"in": ["Microsoft.Compute/virtualMachines", "Microsoft.ClassicCompute/virtualMachines"]
},
"then": {
"effect": "[parameters('effect')]"
}
},
"details": {
"type": "Microsoft.Security/complianceResults",
"name": "unprotectedWebApplication",
"existenceCondition": {
"field": "Microsoft.Security/complianceResults/resourceStatus",
"in": ["OffByPolicy", "Healthy"]
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/201ea587-7c90-41c3-910f-c280ae01cf6d",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "201ea587-7c90-41c3-910f-c280ae01cf6d" },
"properties": {
"displayName": "Microsoft Managed Control 1181 - Baseline Configuration | Retention Of Previous Configurations",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft implements this Configuration Management control",
"metadata": {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1181" },
"policyRule": {
"if": {
"allOf": [
{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]},
{"value": false, "equals": true}
]
},
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/21839937-d241-4fa5-95c6-b669253d9ab9",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "21839937-d241-4fa5-95c6-b669253d9ab9" },
"properties": {
"displayName": "Microsoft Managed Control 1111 - Response To Audit Processing Failures",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft implements this Audit and Accountability control",
"metadata": {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1111" },
"policyRule": {
"if": {
"allOf": [
{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]},
{"value": false, "equals": true}
]
},
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/21de687c-f15e-4e51-bf8d-f35c8619965b",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "21de687c-f15e-4e51-bf8d-f35c8619965b" },
"properties": {
"displayName": "Microsoft Managed Control 1596 - Developer Configuration Management",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft implements this System and Services Acquisition control",
"metadata": {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1596" },
"policyRule": {
"if": {
"allOf": [
{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]},
{"value": false, "equals": true}
]
},
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/21e25e01-0ae0-41be-919e-8474"
Show audit results from Windows VMs configurations in "Security Options - Audit", "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Audit". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"
and other DNS-related attacks.

Open Source Used In SDWan 20.7.1

- Azure Policy
- Azure Security Center
- Azure Active Directory
- Microsoft 365
- Azure Key Vault
- Azure App Service
- Azure Functions
- Azure Logic Apps
- Azure Kubernetes Service
- Azure Container Registry
- Azure Data Factory
- Azure Data Lake Storage
- Azure Data br regulates attacks.

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- Azure Functions
- Azure Kubernetes Service
- Azure Container Registry
- Azure Data Factory
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- Azure Data br regulates attacks.
ports should be closed on your virtual machines","policyType":"BuiltIn","mode":"All","description":"Open remote management ports are exposing your VM to a high level of risk from Internet-based attacks. These attacks attempt to brute force credentials to gain admin access to the machine.","metadata":{"version":"1.0.0","category":"Security Center"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"policyRule":{"if":{"field":"type","in":["Microsoft.Compute/virtualMachines","Microsoft.ClassicCompute/virtualMachines"],"then":["effect",parameters(effect)"],"details":{"type":"Microsoft.Security/complianceResults","name":"restrictAccessToManagementPorts","existenceCondition":{"field":"Microsoft.Security/complianceResults/resourceStatus","in":["OffByPolicy","Healthy"]},"id":"/providers/Microsoft.Authorization/policyDefinitions/22730e10-96f6-4aac-ad84-9383d35b5917","type":"Microsoft.Authorization/policyDefinitions","name":"22730e10-96f6-4aac-ad84-9383d35b5917"},"properties":{"displayName":"Microsoft Managed Control 1493 - System Security Plan","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Planning control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1493"},"policyRule":{"if":{"allOf":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"value":false,"equals":true},"then":["effect","audit"],"id":"/providers/Microsoft.Authorization/policyDefinitions/22b469b3-fccf-42da-aa3b-a28e66fb113ce","type":"Microsoft.Authorization/policyDefinitions","name":"22b469b3-fccf-42da-aa3b-a28e66fb113ce"},"properties":{"displayName":"Only secure connections to your Azure Cache for Redis should be enabled","policyType":"BuiltIn","mode":"Indexed","description":"Audit enabling of only connections via SSL to Azure Cache for Redis. Use of secure connections ensures authentication between the server and the service and protects data in transit from network layer attacks such as man-in-the-middle, eavesdropping, and session-hijacking"},"metadata":{"version":"1.0.0","category":"Cache"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"The effect determines what happens when the policy rule is evaluated to..."}}}}}
Deploy prerequisites to audit Windows VMs that do not restrict the minimum password length to 14 characters. The policy creates a Guest Configuration assignment to audit Windows virtual machines that do not restrict the minimum password length to 14 characters. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Managed Control 1256 - Contingency Plan | Identify Critical Assets, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1256" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"} ]}, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/232ab24b-810b-4640-9019-74a7d0d6a980" }]

"type": "Microsoft.Authorization/policyDefinitions", "name": "232ab24b-810b-4640-9019-74a7d0d6a980" }]

"properties": {"displayName": "Service Bus should use a virtual network service endpoint", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any Service Bus not configured to use a virtual network service endpoint. ", "metadata": {"version": "1.0.0", "category": "Network" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy" }, "allowedValues": ["AuditIfNotExists", "Disabled" ], "defaultValue": "AuditIfNotExists" } }, "policyRule": {"if": {"field": "type", "equals": "Microsoft.ServiceBus/namespaces" }, "then": {"effect": ["parameters(effect)" ] }, "details": {"type": "Microsoft.ServiceBus/namespaces/virtualNetworkRules", "existenceCondition": {"field": "Microsoft.ServiceBus/namespaces/virtualNetworkRules/virtualNetworkSubnetId", "exists": "true" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/235359c5-7c52-4b82-9055-01c75cf9f60e" }]

"type": "Microsoft.Authorization/policyDefinitions", "name": "235359c5-7c52-4b82-9055-01c75cf9f60e" }]

"properties": {"displayName": "Deploy Diagnostic Settings for Stream Analytics to Log Analytics workspace", "policyType": "BuiltIn", "mode": "Indexed", "description": "Deploys the diagnostic settings for Stream Analytics to stream to a regional Log Analytics workspace when any Stream Analytics which is missing this diagnostic settings is created or"
Managed Control 1122 - Audit Review, Analysis, And Reporting | Permitted Actions, "policyType":"Static", "mode":"Indexed", "description":"Microsoft implements this Audit and Accountability control", "metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1122"}, "policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"} ],"then":{"effect":"audit"}}}, "id":"/providers/Microsoft.Authorization/policyDefinitions/23f6e984-3053-4dfc-ab48-543b764781f5","type":"Microsoft.Authorization/policyDefinitions","name":"23f6e984-3053-4dfc-ab48-543b764781f5"}, {"properties":{"displayName":"Microsoft Managed Control 1122 - Audit Review, Analysis, And Reporting | Permitted Actions","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Audit and Accountability control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1122"}, "policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"} ],"then":{"effect":"audit"}}}, "id":"/providers/Microsoft.Authorization/policyDefinitions/23f6e984-3053-4dfc-ab48-543b764781f5"}, {"properties":{"displayName":"Microsoft Managed Control 1231 - Configuration Management Plan","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Configuration Management control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1231"}, "policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"} ],"then":{"effect":"audit"}}}, "id":"/providers/Microsoft.Authorization/policyDefinitions/243ec95e-800c-49d4-ba52-1fdd9f68b857"}, {"properties":{"displayName":"Microsoft Managed Control 1082 - Information Sharing","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1082"}, "policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"} ],"then":{"effect":"audit"}}}, "id":"/providers/Microsoft.Authorization/policyDefinitions/24d480e8-11a0-4b1b-8e70-4e023bf2be23"}, {"properties":{"displayName":"Microsoft Managed Control 1082 - Information Sharing","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1082"}, "policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"} ],"then":{"effect":"audit"}}}, "id":"/providers/Microsoft.Authorization/policyDefinitions/24d480e8-11a0-4b1b-8e70-4e023bf2be23"}, {"properties":{"displayName":"Show audit results from Windows VMs that do not have a maximum password age of 70 days","policyType":"BuiltIn","mode":"All","description":"This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that do not have a maximum password age of 70 days. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"}, "metadata":{"version":1.0.0-preview,"category":"Guest Configuration"}, "policyRule":{"if":{"anyOf": [{"allOf": [{"field":"type","equals":"Microsoft.Compute/virtualMachines"}, {"anyOf": [{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]}, {"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"}, {"field":"Microsoft.Compute/imageSKU","notLike":"2008*"} ],"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"}, {"field":"Microsoft.Compute/imageSKU","notLike":"2008*"} ],"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"}, {"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"} ],"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"}, {"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"} ],"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"}, {"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"} ],"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"}, {"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"} ]}],"field":"Microsoft.Compute/imageSKU","notLike":"2008*"} ]}, {"anyOf": [{"field":"Microsoft.Compute/imagePublisher", "equals":"MicrosoftWindowsServer"}, {"field":"Microsoft.Compute/imageSKU","notLike":"2008*"} ],"allOf": [{"field":"Microsoft.Compute/imagePublisher", "equals":"MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ], }}, {"allOf": [{"field":"Microsoft.Compute/imagePublisher", "equals":"MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"} ]}, {"allO
Diagnostic Settings for Data Lake Storage Gen1 to Log Analytics workspace, "policyType": "BuiltIn", "mode": "Indexed", "description": "Deploys the diagnostic settings for Data Lake Storage Gen1 to stream to a regional Log Analytics workspace when any Data Lake Storage Gen1 which is missing this diagnostic settings is created or updated.", "metadata": {"version": "1.0.0", "category": "Monitoring"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}}, "allowedValues": ["DeployIfNotExists", "Disabled"], "defaultValue": "DeployIfNotExists"}, "profileName": {"type": "String", "metadata": {"displayName": "Profile name", "description": "The diagnostic settings profile name"}, "defaultValue": "setbypolicy_logAnalytics"}, "logAnalytics": {"type": "String", "metadata": {"displayName": "Log Analytics workspace"}, "description": "Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment's principal ID.", "strongType": "omsWorkspace", "assignPermissions": true}, "metricsEnabled": {"type": "String", "metadata": {"displayName": "Enable metrics", "description": "Whether to enable metrics stream to the Log Analytics workspace - True or False"}, "allowedValues": ["True", "False"], "defaultValue": "False"}, "logsEnabled": {"type": "String", "metadata": {"displayName": "Enable logs", "description": "Whether to enable logs stream to the Log Analytics workspace - True or False"}, "allowedValues": ["True", "False"], "defaultValue": "True"}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.DataLakeStore/accounts"}, "then": {"effect": {"parameters("effect")"}, "details": {"type": "Microsoft.Insights/diagnosticSettings", "name": "[parameters("profileName")]", "existenceCondition": {"allOf": ["field": "Microsoft.DataLakeStore/accounts", "exists": true]}}, "then": {"effect": "auditIfNotExists"}, "details": {"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "MaximumPasswordAge", "existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus", "equals": "Compliant"}}}}}},
Open Source Used In SDWan

**Managed Control 1527 - Access**

  "version": "1.0.0",
  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1527",
  "policyRule": {
    "if": {
      "allOf": [
        {
          "field": "type",
          "in": [
            "Microsoft.Resources/subscriptions",
            "Microsoft.Resources/subscriptions/resourceGroups"
          ]
        },
        {
          "value": "false",
          "equals": "true"
        }
      ]
    },
    "then": {
      "effect": "audit"
    }
  }
},

**Deploy default Microsoft IaaSAntimalware extension for Windows Server**, policyType: "BuiltIn", mode: "Indexed", description: "This policy deploys a Microsoft IaaSAntimalware extension with a default configuration when a VM is not configured with the antimalware extension.

metadata: {
  "version": "1.0.0",
  "category": "Compute",
  "parameters": [],
  "policyRule": {
    "if": {
      "allOf": [
        {
          "field": "type",
          "equals": "Microsoft.WindowsServer"
        },
        {
          "field": "Microsoft.Compute/imagePublisher",
          "equals": "Microsoft.Azure.Security"
        },
        {
          "field": "Microsoft.Compute/imageOffer",
          "equals": "WindowsServer"
        },
        {
          "field": "Microsoft.Compute/imageSKU",
      ]
    }
  },
  "then": {
    "effect": "deployIfNotExists",
    "details": {
      "type": "Microsoft.Compute/virtualMachines/extensions",
      "existenceCondition": {
        "allOf": [
          {
            "field": "Microsoft.Compute/virtualMachines/extensions/publisher",
            "equals": "Microsoft.Azure.Security"
          },
          {
            "field": "Microsoft.Compute/virtualMachines/extensions/extensionType",
            "equals": "IaaS Antimalware"
          }
        ]
      },
      "roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/9980e02c-c2be-4d73-94e8-173b1dc7cf3c"],
      "deployment": {
        "properties": {
          "mode": "incremental",
          "template": "https://management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
          "contentVersion": "1.0.0.0",
          "parameters": {
            "vmName": {"type": "string"},
            "location": {"type": "string"},
            "ExclusionsPaths": {"type": "string"},
            "ExclusionsExtensions": {"type": "string"},
            "ExclusionsProcesses": {"type": "string"},
            "RealtimeProtectionEnabled": {"type": "string"},
            "ScheduledScanSettingsIsEnabled": {"type": "string"},
            "ScheduledScanSettingsScanType": {"type": "string"},
            "ScheduledScanSettingsDay": {"type": "string"},
            "ScheduledScanSettingsTime": {"type": "string"}
          }
        }
      }
    }
  }
}
of the week for scheduled scan (1-Sunday, 2-Monday, ..., 7-Saturday) }, "ScheduledScanSettingsTime" : { "type" : "string", "defaultValue" : "120", "metadata" : { "description" : "When to perform the scheduled scan, measured in minutes from midnight (0-1440). For example: 0 = 12AM, 60 = 1AM, 120 = 2AM. " } }, "resources" : [ { "name" : [ concat(parameters('vmName'),'/IaaSAntimalware') ], "type" : "Microsoft.Compute/virtualMachines/extensions", "location" : [ parameters('location') ], "apiVersion" : "2017-12-01", "properties" : { "publisher" : "Microsoft.Azure.Security", "type" : "IaaSAntimalware", "typeHandlerVersion" : "1.3", "autoUpgradeMinorVersion" : true, "settings" : { "AntimalwareEnabled" : true, "RealtimeProtectionEnabled" : [ parameters('RealtimeProtectionEnabled') ], "ScheduledScanSettings" : [ "isEnabled" : [ parameters('ScheduledScanSettingsIsEnabled') ], "day" : [ parameters('ScheduledScanSettingsDay') ], "time" : [ parameters('ScheduledScanSettingsTime') ], "scanType" : [ parameters('ScheduledScanSettingsScanType') ], "Exclusions" : [ "[Extensions["parameters'ExclusionsExtensions"]], "Paths" : [ parameters('ExclusionsPaths') ], "Processes" : [ parameters('ExclusionsProcesses') ] ] ] }, "parameters" : { "vmName" : { "value" : [ field('name') ] }, "location" : { "value" : [ field('location') ] }, "RealtimeProtectionEnabled" : { "value" : true }, "ScheduledScanSettingsIsEnabled" : { "value" : true } } } ] }; 

Managed Control 1418 - Nonlocal Maintenance | Comparable Security / Sanitization, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control",

Managed Control 1634 - Boundary Protection | Prevent Unauthorized Exfiltration, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control",

Show audit results from Windows VMs configurations in "Security Options - User Account Control", "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - User Account Control". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol,"
Managed Control 1603 - Developer Security Testing And Evaluation,
policyType: "Static", mode: "Indexed", description: "Microsoft implements this System and Services Acquisition control",
metadata: {"version": "1.0.0", category: "Regulatory Compliance"},
additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1603"},
policyRule: {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}, id: "/providers/Microsoft.Authorization/policyDefinitions/2b909c26-162f-47ce-8e15-0c1f5632eac"},
type: "Microsoft.Authorization/policyDefinitions", name: "2b909c26-162f-47ce-8e15-0c1f5632eac"},
{properties: {"displayName": "Managed identity should be used in your Web App", policyType: "BuiltIn", mode: "Indexed", description: "Use a managed identity for enhanced authentication security", metadata: {"version": "1.0.0", category: "App Service"}, parameters: {"effect": {"type": "String", metadata: {"displayName": "Effect", description: "Enable or disable the execution of the policy"}, allowedValues: ["AuditIfNotExists", "Disabled"], defaultValue: "AuditIfNotExists"}}, policyRule: {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "app*"}], "then": {"effect": ["parameters(\"effect\")"]}, details: {"type": "Microsoft.Web/sites/config", name: "web", existenceCondition: {"field": "Microsoft.Web/sites/config/managedServiceIdentityId", "exists": "true"}}}, id: "/providers/Microsoft.Authorization/policyDefinitions/2b9ad585-36bc-4615-b300-fd4435808332"},
type: "Microsoft.Authorization/policyDefinitions", name: "2b9ad585-36bc-4615-b300-fd4435808332"},
{properties: {"displayName": "Microsoft Managed Control 1434 - Media Transport", policyType: "Static", mode: "Indexed", description: "Microsoft implements this Media Protection control", metadata: {"version": "1.0.0", category: "Regulatory Compliance"},
additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1434"},
policyRule: {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}, id: "/providers/Microsoft.Authorization/policyDefinitions/2c18f06b-a68d-41c3-8863-b8ed3acb5f8f"},
type: "Microsoft.Authorization/policyDefinitions", name: "2c18f06b-a68d-41c3-8863-b8ed3acb5f8f"},
{properties: {"displayName": "Managed Control 1343 - Authenticator Management | Expiration Of Cached Authenticators", policyType: "Static", mode: "Indexed", description: "Microsoft implements this Identification and Authentication control", metadata: {"version": "1.0.0", category: "Regulatory Compliance"},
additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1343"},
policyRule: {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}, id: "/providers/Microsoft.Authorization/policyDefinitions/2c251a55-31eb-4e53-99c6-e9c43c393ac2"},
type: "Microsoft.Authorization/policyDefinitions", name: "2c251a55-31eb-4e53-99c6-e9c43c393ac2"},
{properties: {"displayName": "Managed Control 1388 - Information Spillage Response", policyType: "Static", mode: "Indexed", description: "Microsoft implements this Incident Response control", metadata: {"version": "1.0.0", category: "Regulatory Compliance"},
additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1388"},
policyRule: {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}, id: "/providers/Microsoft.Authorization/policyDefinitions/2c7c575a-d4c5-4f6f-bd49-dee97a8cba55"},
type: "Microsoft.Authorization/policyDefinitions", name: "2c7c575a-d4c5-4f6f-bd49-dee97a8cba55"},
{properties: {"displayName": "Microsoft Open Source Used In SDWan 20.7.1 8489"}}
Managed Control 1344 - Authenticator
Feedback"},"policyType":"Static",mode":"Indexed","description":"Microsoft implements this Identification and Authentication control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1344"},"policyRule":{"if":{"allOf":[]},"then":{"effect":"audit"}},"id":/providers/Microsoft.Authorization/policyDefinitions/2c895fe7-2d8e-43a2-838c-3a533a5b355e,"type":"Microsoft.Authorization/policyDefinitions","name":"2c895fe7-2d8e-43a2-838c-3a533a5b355e","properties":{"displayName":"SSH access from the Internet should be blocked","policyType":"BuiltIn","mode":"All","description":"This policy audits any network security rule that allows SSH access from Internet"},"metadata":{"version":"2.0.0","category":"Network"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":[]},"policyRule":{"if":{"allOf":[]},"then":{"effect":"[parameters(''effect'')]
"}},"id":/providers/Microsoft.Authorization/policyDefinitions/2c89a2e5-7285-40fe-afe0-8c9f2078-78e5-46b0-8b0c-002564812784"},"type":"Microsoft.Authorization/policyDefinitions","name":"2c89a2e5-7285-40fe-afe0-8c9f2078-78e5-46b0-8b0c-002564812784","properties":{"displayName":"SSH access from the Internet should be blocked","policyType":"BuiltIn","mode":"All","description":"This policy audits any network security rule that allows SSH access from Internet"},"metadata":{"version":"2.0.0","category":"Network"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":[]},"policyRule":{"if":{"allOf":[]},"then":{"effect":"[parameters(''effect'')]
"}},"id":/providers/Microsoft.Authorization/policyDefinitions/2c89a2e5-7285-40fe-afe0-8c9f2078-78e5-46b0-8b0c-002564812784"}},
Managed Control 1068 - Wireless Access, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1068" }, "policyRule": 
{"if": 
{"allOf": 
["field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, 
{"value": false, "equals": true }], 
"then": 
{"effect": "audit" 
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/2cf42a28-193e-41c5-98df-7688e7e0a889" 
}, "properties": 
{"displayName": "Microsoft Managed Control 1068 - Wireless Access" 
, "policyType": "Static" 
, "mode": "Indexed" 
, "description": "Microsoft implements this Access Control control" 
, "metadata": 
{"version": "1.0.0" 
, "category": "Regulatory Compliance" 
, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1068" 
} 
}

Managed Control 1704 - Security Alerts, Advisories, And Directives, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1704" }, "policyRule": 
{"if": 
{"allOf": 
["field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, 
{"value": false, "equals": true }], 
"then": 
{"effect": "audit" 
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/2cf42a28-193e-41c5-98df-7688e7e0a889" 
}, "properties": 
{"displayName": "Microsoft Managed Control 1068 - Wireless Access" 
, "policyType": "Static" 
, "mode": "Indexed" 
, "description": "Microsoft implements this Access Control control" 
, "metadata": 
{"version": "1.0.0" 
, "category": "Regulatory Compliance" 
, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1068" 
} 
}

Managed Control 1704 - Security Alerts, Advisories, And Directives, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1704" }, "policyRule": 
{"if": 
{"allOf": 
["field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, 
{"value": false, "equals": true }], 
"then": 
{"effect": "audit" 
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/2cf42a28-193e-41c5-98df-7688e7e0a889" 
}, "properties": 
{"displayName": "Microsoft Managed Control 1068 - Wireless Access" 
, "policyType": "Static" 
, "mode": "Indexed" 
, "description": "Microsoft implements this Access Control control" 
, "metadata": 
{"version": "1.0.0" 
, "category": "Regulatory Compliance" 
, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1068" 
} 
}

Service should use a virtual network service endpoint, "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any App Service not configured to use a virtual network service endpoint.", "metadata": {"version": "1.0.0", "category": "Network" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy" }, "allowedValues": ["AuditIfNotExists", "Disabled" ], "defaultValue": "AuditIfNotExists" } }, "policyRule": 
{"if": 
{"anyOf": 
["field": "type", "equals": "Microsoft.Web/sites"], 
"anyOf": 
["field": "kind", "like": "app*"]}, 
"then": 
{"effect": "\[paramaters(''effect'')\]" 
, "details": 
{"type": "Microsoft.Web/sites/virtualNetworkConnections","existenceCondition": {"field": 
"Microsoft.Web/sites/virtualnetworkconnections/vnetResourceId", "exists": true" 
} 
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/2d045bca-a0fd-452e-9f41-4ec33769717c" 
}, "properties": 
{"displayName": "Microsoft Managed Control 1068 - Wireless Access" 
, "policyType": "Static" 
, "mode": "Indexed" 
, "description": "Microsoft implements this Access Control control" 
, "metadata": 
{"version": "1.0.0" 
, "category": "Regulatory Compliance" 
, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1068" 
} 
}

Show audit results from Windows VMs that do not store passwords using reversible encryption, "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that do not store passwords using reversible encryption. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol" }
Show audit results from Linux VMs that allow remote connections from accounts without passwords,
Managed Control 1519 - Personnel Termination

Security Center uses the Microsoft Monitoring Dependency Agent to collect network traffic data from your Azure virtual machines to enable advanced network protection features such as traffic visualization on the network map, network hardening recommendations and specific network threats.

Effect: "AuditIfNotExists, Disabled"

Parameters: "AuditIfNotExists": "true"

Security Center uses the Microsoft Monitoring Dependency Agent to collect network traffic data from your Azure virtual machines to enable advanced network protection features such as traffic visualization on the network map, network hardening recommendations and specific network threats.

Effect: "AuditIfNotExists, Disabled"

Parameters: "AuditIfNotExists": "true"
Managed Control 1144 - Security Assessments

Managed Control 1090 - Security Assessments

Managed Control 1090 - Security Assessments

Managed Control 1090 - Security Assessments

Managed Control 1090 - Security Assessments

Web Application should only be accessible over HTTPS

Shows audit results from Windows VMs configurations in "Security Options - Network Access"

Open Source Used In SDWan 20.7.1 8496
Configuration policies, please visit https://aka.ms/gcpol.


Open Source Used In SDWan 20.7.1 8497
Open Source Used In SDWan

Managed Control 1042 - Least Privilege | Auditing Use Of Privileged Functions

Microsoft implements this Access Control control, "metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":null},"policyRule":{"if":{"allOf":[]},"then":null},"effect":"audit"},"id":"/providers/Microsoft.Authorization/policyDefinitions/319dc4f0-0fed-4ac9-8fc3-7aeddee82c07","type":"Microsoft.Authorization/policyDefinitions","name":"319dc4f0-0fed-4ac9-8fc3-7aeddee82c07","properties":null

Managed Control 1698 - Information System Monitoring | Individuals Posing Greater Risk

Microsoft implements this System and Information Integrity control, "metadata":null,"policyRule":null,"effect":"audit"},"id":"/providers/Microsoft.Authorization/policyDefinitions/31b752c1-05a9-432a-8fce-c39b5650119","type":"Microsoft.Authorization/policyDefinitions","name":"31b752c1-05a9-432a-8fce-c39b5650119","properties":null

Audit Log Analytics Agent Deployment - VM Image (OS)

Microsoft as non-compliant if the VM Image (OS) is not in the list defined and the agent is not installed. The list of OS images will be updated over time as support is updated.,"metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":null},"policyRule":null,"effect":"audit"},"id":"/subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage","defaultValue":null,"listOfImageIdToInclude_windows":null,"listOfImageIdToInclude_linux":null,"properties":null

Optional: List of VM images that have supported Windows OS to add to scope,"description":null,"Example value:"/subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage","defaultValue":null,"listOfImageIdToInclude_windows":null,"listOfImageIdToInclude_linux":null,"properties":null

Optional: List of VM images that have supported Linux OS to add to scope,"description":null,"Example value:"/subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage","defaultValue":null,"listOfImageIdToInclude_windows":null,"listOfImageIdToInclude_linux":null,"properties":null
Microsoft Managed Control 1587 - External Information System Services
policyType: "Static",
mode: "Indexed",
description: "Microsoft implements this System and Services Acquisition control",
metadata: 
"version": "1.0.0",
category: "Regulatory Compliance",
additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1587",
policyRule:
"if": 
{ "allOf": 
[ 
{ "field": "type", 
{ "value": "false", "equals": "true" } ] 
},
"then": 
{ "effect": "audit" } 
},
id: "/providers/Microsoft.Authorization/policyDefinitions/32820956-9c6d-4376-934c-05cd8525be7c",
type: 
"Microsoft.Authorization/policyDefinitions",
names: 
"32820956-9c6d-4376-934c-05cd8525be7c",
properties: 
{ "displayName": "Microsoft Managed Control 1587 - External Information System Services", 
"policyType": "Static", 
"mode": "Indexed", 
description: "Microsoft implements this System and Services Acquisition control" } 

Microsoft Managed Control 1333 - Authenticator Management | Pki-Based Authentication
policyType: "Static",
mode: "Indexed",
description: "Microsoft implements this Identification and Authentication control",
metadata: 
"version": "1.0.0",
category: "Regulatory Compliance",
additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1333",
policyRule:
"if": 
{ "allOf": 
[ 
{ "field": "type", 
{ "value": "false", "equals": "true" } ] 
},
"then": 
{ "effect": "audit" } 
},
id: "/providers/Microsoft.Authorization/policyDefinitions/3298d6bf-4bc6-4278-a95d-f7ef3ac6e594",
type: 
"Microsoft.Authorization/policyDefinitions",
names: 
"3298d6bf-4bc6-4278-a95d-f7ef3ac6e594",
properties: 
{ "displayName": "Deploy prerequisites to audit Windows VMs on which the specified services are not installed and "Running"", 
policyType: "BuiltIn", 
mode: "Indexed", 
description: "This policy creates a Guest Configuration assignment to audit Windows virtual machines on which the specified services are not installed and "Running". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", 
metadata: 
"version": "1.1.0", 
category: "Guest Configuration", 
requiredProviders: [ "Microsoft.GuestConfiguration" ], 
parameters: 
{ "ServiceName": 
"string",
"displayName": "Service names (supports wildcards)", 
description: "A semicolon-separated list of the names of the services that should be installed and "Running". e.g. "WinRm;Wi**")" 
},
policyRule:
"if": 
{ "anyOf": 
[ 
{ "allOf": 
[ 
{ "field": "type", 
equals: "Microsoft.Compute/virtualMachines" } 
], 
"anyOf": 
{ "field": "Microsoft.Compute/imagePublisher", 
}, 
{ "allOf": 
[ "field": 
"Microsoft.Compute/imagePublisher", 
equals: "MicrosoftWindowsServer" ] 
}, 
{ "field": "Microsoft.Compute/imageSKU", 
notLike: "2008*" } 
], 
{ "allOf": 
[ "field": "Microsoft.Compute/imagePublisher", 
equals: "MicrosoftSQLServer" ] 
}, 
{ "field": "Microsoft.Compute/imageOffer", 
notLike: "SQL2008*" } 
], 
{ "allOf": 
[ "field": "Microsoft.Compute/imagePublisher", 
equals: "microsoft-dsvm" ] 
}, 
{ "field": "Microsoft.Compute/imageOffer", 
equals: "dsvm-windows" } 
], 
{ "allOf": 
[ "field": "Microsoft.Compute/imagePublisher", 
equals: "microsoft-ads" ] 
}, 
{ "field": "Microsoft.Compute/imageOffer", 
], 
{ "allOf": 
[ "field": "Microsoft.Compute/imagePublisher", 
equals: "batch" ] 
}, 
{ "field": "Microsoft.Compute/imageOffer", 
equals: "rendering-windows2016" } 
], 
{ "allOf": 
[ "field": "Microsoft.Compute/imagePublisher", 
equals: "center-for-internet-security-inc" ] 
}, 
{ "field": "Microsoft.Compute/imageOffer", 
like: "cis-windows-server-201*" } 
], 
{ "allOf": 
[ "field": "Microsoft.Compute/imagePublisher", 
equals: "pivotal" ] 
}, 
"field": "Microsoft.Compute/
Managed Control 1445 - Physical And Environmental Protection Policy And Procedures

Microsoft implements this Physical and Environmental Protection control.

Microsoft Managed Control 1445 - Physical And Environmental Protection Policy And Procedures

Microsoft implements this Physical and Environmental Protection control.

MySQL server should use a virtual network service endpoint.

This policy audits MySQL servers not configured to use a virtual network service endpoint. For more details, visit https://aka.ms/mysqlvnet.

Microsoft Managed Control 1282 - Telecommunications Services | Single Points Of Failure

Microsoft implements this Contingency Planning control.

[Preview]: Deploy prerequisites to audit Linux VMs that have accounts without passwords.

Deploy prerequisites to audit Linux VMs that have accounts without passwords. This policy creates a Guest Configuration assignment to audit Linux virtual machines that have accounts without passwords. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
on":1.0","autoUpgradeMinorVersion":true,"settings":{},"protectedSettings":{},"dependsOn":["[concat("Microsoft
_Compute/virtualMachines/",parameters("vmName")),"/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/",parameters("configurationName"))]"]}],"id":/providers/Microsoft.Authorization/policyDefinitions/3470477a-b35a-49db-aca5-1073d04524fe,"type":"Microsoft.Authorization/policyDefinitions","name":3470477a-b35a-49db-aca5-1073d04524fe,"properties":{"displayName":"Microsoft
Managed Control 1151 - System Interconnections","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Security Assessment and Authorization control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1151","policyRule":{"if":{"allOf":["field":"type","in":/["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"value":false,"equals":true"}],"then":{"effect":audit"}},"id":/providers/Microsoft.Authorization/policyDefinitions/347e3b69-7fb7-47df-a8ef-71a1a7b44bca,"type":"Microsoft.Authorization/policyDefinitions","name":347e3b69-7fb7-47df-a8ef-71a1a7b44bca,"properties":{"displayName":"Microsoft
Managed Control 1412 - Nonlocal Maintenance","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Maintenance control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1412","policyRule":{"if":{"allOf":["field":"type","in":/["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"value":false,"equals":true"}],"then":{"effect":audit"}},"id":/providers/Microsoft.Authorization/policyDefinitions/3492d949-0dbb-4589-88b3-7b59601cc764,"type":"Microsoft.Authorization/policyDefinitions","name":3492d949-0dbb-4589-88b3-7b59601cc764,"properties":{"displayName":"Microsoft
Managed Control 1475 - Emergency Lighting","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Physical and Environmental Protection control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1475","policyRule":{"if":{"allOf":["field":"type","in":/["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"value":false,"equals":true"}],"then":{"effect":audit"}},"id":/providers/Microsoft.Authorization/policyDefinitions/34a63848-30cf-4081-937e-ce1a1c885501,"type":"Microsoft.Authorization/policyDefinitions","name":34a63848-30cf-4081-937e-ce1a1c885501,"properties":{"displayName":"Microsoft
Managed Control 1060 - Remote Access","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1060","policyRule":{"if":{"allOf":["field":"type","in":/["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"value":false,"equals":true"}],"then":{"effect":audit"}},"id":/providers/Microsoft.Authorization/policyDefinitions/34a987fd-2003-45de-a120-01495658112b,"type":"Microsoft.Authorization/policyDefinitions","name":34a987fd-2003-45de-a120-01495658112b,"properties":{"displayName":"Storage accounts should restrict network access","policyType":"BuiltIn","mode":"Indexed","description":"Network access to storage accounts should be restricted. Configure network rules so only applications from allowed networks can access the storage account. To allow connections from specific internet or on-premise clients, access can be granted to traffic from specific Azure virtual networks or to public internet"}}}}}},
IP address ranges","metadata":{"version":"1.1.0","category":"Storage"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"The effect determines what happens when the policy rule is evaluated to match"}},"allowedValues":["Audit","Deny","Disabled"],"defaultValue":"Audit"},"policyRule":{"if":{"allOf":[{"field":"Microsoft.Storage/storageAccounts"},"notEquals":"Deny"],"then":{"effect":"[parameters('effect')]"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/34c877ad-507e-4c82-993e-3452a6e0ad3c","type":"Microsoft.Authorization/policyDefinitions","name":"34c877ad-507e-4c82-993e-3452a6e0ad3c","properties":{"displayName":"Microsoft Managed Control 1341 - Authenticator Management | Multiple Information System Accounts","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Identification and Authentication control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1341"},"policyRule":{"if":{"allOf":[{"field":"type"},"in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]],"value":false,"equals":true},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/34cb7e92-fe4c-4826-b51e-8cd203fa5d35","type":"Microsoft.Authorization/policyDefinitions","name":"34cb7e92-fe4c-4826-b51e-8cd203fa5d35","properties":{"displayName":"Diagnostic logs in Logic Apps should be enabled","policyType":"BuiltIn","mode":"Indexed","description":"Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes; when a security incident occurs or when your network is compromised","metadata":{"version":"2.0.0","category":"Logic Apps"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"}},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}},"requiredRetentionDays":{"type":"String","metadata":{"displayName":"Required retention (days)","description":"The required diagnostic logs retention in days"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/34f95f76-5386-4de7-b824-0d8478470c9d","type":"Microsoft.Authorization/policyDefinitions","name":"34f95f76-5386-4de7-b824-0d8478470c9d","properties":{"displayName":"Microsoft Managed Control 1210 - Configuration Settings","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Configuration Management control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1210"},"policyRule":{"if":{"allOf":[{"field":"type"},"in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]],"value":false,"equals":true},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/3502c968-c490-4570-8167-1476f955e9b8","type":"Microsoft.Authorization/policyDefinitions","name":"3502c968-c490-4570-8167-1476f955e9b8"}
Deploy prerequisites to audit Windows VMs that do not have a maximum password age of 70 days. This policy creates a Guest Configuration assignment to audit Windows virtual machines that do not have a maximum password age of 70 days. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
meters("vmName"),
"[Microsoft.GuestConfiguration/",
parameters("configurationName"))], "location": ":[parameters("location")), "properties": {"guestConfiguration": {"name": ":[parameters("configurationName"))], "version": "1.*" }}], {"condition": {"equals(toLower(parameters("type")),
toLower("Microsoft.Compute/virtualMachines"))}, "apiVersion": "2019-07-01"}, "type": ":Microsoft.Compute/virtualMachines/", "identity": {"type": ":SystemAssigned"}, "name": ":[parameters("vmName"))], "location": ":[parameters("location"))]}, {"condition": {"equals(toLower(parameters("type")),
toLower("Microsoft.Compute/virtualMachines"))}, "apiVersion": "2015-05-01-preview"}, "name": ":\{concat(parameters("vmName"),
"/AzurePolicyForWindows")\}, "type": ":Microsoft.Compute/virtualMachines/extensions", "location": ":[parameters("location")], "properties": {"publisher": ":Microsoft.GuestConfiguration", "type": ":ConfigurationForWindows", "typeHandlerVersion": "1.1", "autoUpgradeMinorVersion": true, "settings": {}, "protectedSettings": {}}, "dependsOn": ["\{concat(Microsoft.Compute/virtualMachines/\, parameters("vmName"), "/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/\, parameters("configurationName"))\}]]]}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/356a906e-05e5-4625-8729-90771e093e/\, type": ":Microsoft.Authorization/policyDefinitions", "name": "356a906e-05e5-4625-8729-90771e093e"}, {"properties": {"displayName": "CORS should not allow every resource to access your API App", "policyType": "BuiltIn", "mode": "Indexed", "description": ":Cross-Origin Resource Sharing (CORS) should not allow all domains to access your API app. Allow only required domains to interact with your API app.
"Resource Service"], "parameters": [{"effect": {"type": "String", "metadata": {"display": "CORS"}}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}], "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": ":*api"}]}, "then": {"effect": ["parameters(effect)"], "details": [{"type": "Microsoft.Web/sites/config", "existenceCondition": {"field": "Microsoft.Web/sites/config/web.cors.allowedOrigins[1...", "notEquals": ["*"], "id": "/providers/Microsoft.Authorization/policyDefinitions/358e20af-39f-40e-9ff-c6ee485e2aac", "type": ":Microsoft.Authorization/policyDefinitions", "name": "358e20af-39f-40e-9ff-c6ee485e2aace"}, {"properties": {"displayName": "Microsoft Managed Control 1659 - Architecture And Provisioning For Name / Address Resolution Service", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control.
"Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1659"}], "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, "equals": true}]], "then": {"effect": "audit"}, "id": "/providers/Microsoft.Authorization/policyDefinitions/35a4102f-a778-4a2e-98c2-971056288df8", "type": ":Microsoft.Authorization/policyDefinitions", "name": "35a4102f-a778-4a2e-98c2-971056288df8"}, {"properties": {"displayName": "Gateway subnets should not be configured with a network security group", "policyType": "BuiltIn", "mode": "All", "description": "This policy denies if a gateway subnet is configured with a network security group. Assigning a network security group to a gateway subnet will cause the gateway to stop functioning.
"Network"], "parameters": {}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Network/virtualNetworks/subnets"}, {"field": "name", "equals": "GatewaySubnet"}, {"field": "Microsoft.Network/virtualNetworks/subnets/networkSecurityGroup.id", "exists": true}]], "then": {"effect": "deny"}, "id": "/providers/Microsoft.Authorization/policyDefinitions/35f9c03a-cc27-418e-9c0c3f9f999d010", "type": ":Microsoft.Authorization/policyDefinitions", "name": "35f9c03a-cc27-418e-9c0c-
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539ff999d010},{"properties":{"displayName":"Microsoft Managed Control 1043 - Least Privilege | Prohibit Non-Privileged Users From Executing Privileged Functions","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1043"},"policyRule ":{"if":{"allOf":[]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/361a77f6-0f9c-4748-8eecc-bc13aaa2455","type":"Microsoft.Authorization/policyDefinitions","name":"361a77f6-0f9c-4748-8eecc-bc13aaa2455"},

"properties":{"displayName":"Deploy Advanced Threat Protection on Storage Accounts","policyType":"BuiltIn","mode":"Indexed","description":"This policy enables Advanced Threat Protection on Storage Accounts."},"metadata":{"version":"1.0.0","category":"Storage"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":[]},"details":[]},"policyRule":{"if":{"field":"type","equals":"Microsoft.Storage/storageAccounts"},"then":{"effect":parameters(\"effect\")},"details":[]},"id":"/providers/Microsoft.Authorization/policyDefinitions/361c2074-3595-4e5d-8cab-4f21dffe835c","type":"Microsoft.Authorization/policyDefinitions","name":"361c2074-3595-4e5d-8cab-4f21dffe835c"},

"properties":{"displayName":"Microsoft Managed Control 1313 - Identifier Management","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Identification and Authentication control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1313"},"policyRule ":{"if":{"allOf":[]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/36220f5b-79a1-4cdb-8c74-2d24499a510","type":"Microsoft.Authorization/policyDefinitions","name":"36220f5b-79a1-4cdb-8c74-2d24499a510"},

"properties":{"displayName":"Microsoft Managed Control 1630 - Boundary Protection | External Telecommunications Services","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1630"},"policyRule ":{"if":{"allOf":[]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/36220f5b-79a1-4cdb-8c74-2d24499a510"}}

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account variables should be encrypted}, "policyType": "BuiltIn", "mode": "All", "description": "It is important to enable encryption of Automation account variable assets when storing sensitive data", "metadata": {"version": "1.1.0", "category": "Automation"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match"}}, "allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Automation/automationAccounts:variables"}, {"field": "Microsoft.Automation/automationAccounts:variables/isEncrypted", "notEquals": "true"}]}, "then": {"effect": "[parameters('effect')]"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/3657f5a0-770e-44a3-b44e-9431b1ae9735"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "3657f5a0-770e-44a3-b44e-9431b1ae9735", "properties": {"displayName": "Microsoft Managed Control 1339 - Authenticator Management | Protection Of Authenticators", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1339"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": "true"]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/36b0ef30-366f-4b1b-8652-a3511df1f53"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "36b0ef30-366f-4b1b-8652-a3511df1f53", "properties": {"displayName": "Deploy Threat Detection on SQL servers", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy ensures that Threat Detection is enabled on SQL Servers", "metadata": {"version": "1.0.0", "category": "SQL"}, "parameters": {}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Sql/servers"}, "then": {"effect": "DeployIfNotExists", "details": {"type": "Microsoft.Sql/securityAlertPolicies", "name": "Default", "existenceCondition": {"field": "Microsoft.Sql/securityAlertPolicies.state", "equals": "Enabled"}, "roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/056cd41c-7e88-42e1-933e-88baa6a5c9c3"], "deployment": {"properties": {"mode": "incremental", "template": "{"$schema": "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"serverName": {"type": "string"}, "variables": {}, "resources": {"name": ["concat(parameters('serverName'))"]}, "type": "Microsoft.Sql/servers/securityAlertPolicies", "apiVersion": "2017-03-01-preview", "properties": {"state": "Enabled", "emailAccountAdmins": true}, "parameters": {"serverName": {"value": [field('name')]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/36d49e87-48c4-4f2e-beed-
Deploy prerequisites to audit Windows VMs configurations in "Security Options - Network Security". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Network Security". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

- Network security: Configure encryption types allowed for Kerberos.
- Network security: LAN Manager authentication level.
- Network security: LDAP client signing requirements.
- Network security: Minimum session security for NTLM SSP based (including secure RPC) clients.
- Network security: Minimum session security for NTLM SSP based (including secure RPC) servers.

toLower(''Microsoft.Compute/virtualMachines''))]","apiVersion":"2015-05-01preview","name":"[concat(parameters(''vmName''),
''/AzurePolicyforWindows'')]","type":"Microsoft.Compute/virtualMachines/extensions","location":"[parameters(''loc
ation'')]","properties":{"publisher":"Microsoft.GuestConfiguration","type":"ConfigurationforWindows","typeHandle
rVersion":"1.1","autoUpgradeMinorVersion":true,"settings":{},"protectedSettings":{}},"dependsOn":["[concat(''Mi
crosoft.Compute/virtualMachines/'',parameters(''vmName''),''/providers/Microsoft.GuestConfiguration/guestConfigu
rationAssignments/'',parameters(''configurationName''))]"]}]}}}}}}},"id":"/providers/Microsoft.Authorization/polic
yDefinitions/36e17963-7202-494a-80c3f508211c826b","type":"Microsoft.Authorization/policyDefinitions","name":"36e17963-7202-494a-80c3f508211c826b"},{"properties":{"displayName":"Microsoft
Managed Control 1557 - Vulnerability Scanning | Review Historic Audit
Logs","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Risk Assessment control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1557"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/36fbe499-f2f2-41b6-880e52d7ea1d94a5","type":"Microsoft.Authorization/policyDefinitions","name":"36fbe499-f2f2-41b6-880e52d7ea1d94a5"},{"properties":{"displayName":"[Preview]:
Deploy prerequisites to audit Windows VMs configurations in ''Security Options
- Interactive Logon''","policyType":"BuiltIn","mode":"Indexed","description":"This
policy creates a Guest Configuration assignment to audit Windows virtual machines
with non-compliant settings in Group Policy category: ''Security Options Interactive Logon''. It also creates a system-assigned managed identity and
deploys the VM extension for Guest Configuration. This policy should only
be used along with its corresponding audit policy in an initiative. For more
information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":"1.1.0preview","category":"Guest
Configuration","requiredProviders":["Microsoft.GuestConfiguration"],"preview":true},"policyRule":{"if":{"anyOf":
[{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines"},{"anyOf":[{"field":"Microsoft.Compute/
imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudi
o","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]},{"allOf":[{"field":"Microsoft.Compute/im
agePublisher","equals":"MicrosoftWindowsServer"},{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"}]
},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftSQLServer"},{"field":"Microsoft.Co
mpute/imageOffer","notLike":"SQL2008*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"m
ageOffer","equals":"renderingwindows2016"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"center-for-internet-securityinc"},{"field":"Microsoft.Compute/imageOffer","like":"cis-windows-server201*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"pivotal"},{"field":"Microsoft.Compute/
imageOffer","like":"bosh-windowsserver*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructureservices"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}]},{"allOf":[{"anyOf":[{"field":"Microsoft.Comp
ute/virtualMachines/osProfile.windowsConfiguration","exists":"true"},{"field":"Microsoft.Compute/virtualMachine
s/storageProfile.osDisk.osType","like":"Windows*"}]},{"anyOf":[{"field":"Microsoft.Compute/imageSKU","exists

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Use new Azure Resource Manager for your storage accounts to provide security enhancements such as: stronger access control (RBAC), better auditing, Azure Resource Manager based deployment and governance, access to managed identities, access to key vault for secrets, Azure AD-based authentication and support for tags and resource groups for easier security management.

Microsoft Managed Control 1335 - Authenticator Management | Pki-Based Authentication

Microsoft implements this Identification and Authentication control.

Diagnostic logs in IoT Hub should be enabled.

Microsoft Managed Control 1081 - Information Sharing

Microsoft implements this Access Control control.
Managed Control 1522 - Personnel Transfer
PolicyType: Static, mode: Indexed, description: Microsoft implements this Personnel Security control, metadata: version: 1.0.0, category: Regulatory Compliance, additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1522, policyRule: if: allOf: [field: type, in: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]], [value: false, equals: true], then: effect: audit, id: /providers/Microsoft.Authorization/policyDefinitions/38b470cc-f939-4a15-80e0-9f0c74f2e2c9, type: Microsoft.Authorization/policyDefinitions, name: 38b470cc-f939-4a15-80e0-9f0c74f2e2c9, properties: displayName: Microsoft

Managed Control 1416 - Nonlocal Maintenance | Document Nonlocal Maintenance
PolicyType: Static, mode: Indexed, description: Microsoft implements this Maintenance control, metadata: version: 1.0.0, category: Regulatory Compliance, additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1416, policyRule: if: allOf: [field: type, in: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]], [value: false, equals: true], then: effect: audit, id: /providers/Microsoft.Authorization/policyDefinitions/38f4d8a3-5290-4099-88b7-40f1f4c4d8ae, type: Microsoft.Authorization/policyDefinitions, name: 38f4d8a3-5290-4099-88b7-40f1f4c4d8ae, properties: displayName: Microsoft

Managed Control 1397 - Controlled Maintenance

Managed Control 1556 - Vulnerability Scanning | Automated Trend Analyses

data security settings for SQL managed instance should contain an email address to receive security alerts, policyType: BuiltIn, mode: Indexed, description: Ensure that an email address is provided for the "Send alerts to" field in the Advanced Data Security server settings. This email address receives alert notifications when anomalous activities are detected on SQL managed instances., metadata: version: 1.0.1, category: SQL, parameters: effect: type: String, metadata: displayName: Effect, description: Enable
or disable the execution of the policy.

Managed Control 1232 - Configuration Management Plan, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1232" }, "policyRule": {"if": {"allOf": ["field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value": "false","equals": "true"}],"then": {"effect": "audit"} },

Managed Control 1246 - Contingency Planning control, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1246" }, "policyRule": {"if": {"allOf": ["field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value": "false","equals": "true"}],"then": {"effect": "audit"} },

Managed Control 1680 - Malicious Code Protection | Central Management, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1680" }, "policyRule": {"if": {"allOf": ["field":"type","in": ["Microsoft.Web/sites","Microsoft.Web/sites/config"]},"value": "false","equals": "true"}],"then": {"effect": "audit"} },

Managed Control 1228 - Information System Component Inventory | Accountability
Managed Control 1039 - Least Privilege | Review Of User Privileges

Managed Control 1648 - Collaborative Computing Devices

Managed Control 1315 - Identifier

Managed Control 1315 - Identifier

Pod Security Policies should be defined on Kubernetes Services
Managed Control 1548 - Vulnerability Scanning

Microsoft implements this Risk Assessment control.

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Managed Control 1266 - Contingency Plan Testing | Alternate Processing Site

Microsoft implements this Contingency Planning control.

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Managed Control 1003 - Account Management

Microsoft implements this Access Control control.

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An activity log alert should exist for specific Security operations.

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"then": {"effect": "deployIfNotExists", "details": {"type": "Microsoft.Compute/virtualMachineScaleSets/extensions", "roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/9980e02c-c2be-4d73-94e8-173b1dc7cf3c"], "existenceCondition": {"allOf": [{"field": "Microsoft.Compute/virtualMachineScaleSets/extensions/type", "equals": "DependencyAgentWindows"}, {"field": "Microsoft.Compute/virtualMachineScaleSets/extensions/publisher", "equals": "Microsoft.Azure.Monitoring.DependencyAgent"}]}, "deployment": [{"properties": {"mode": "incremental", "template": {"$schema": "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"vmName": {"type": "string"}, "location": {"type": "string"}, "variables": {"vmExtensionName": "DependencyAgent", "vmExtensionPublisher": "Microsoft.Azure.Monitoring.DependencyAgent", "vmExtensionType": "DependencyAgentWindows", "vmExtensionTypeHandlerVersion": "9.7"}, "resources": [{"type": "Microsoft.Compute/virtualMachineScaleSets/extensions", "name": [concat(parameters('vmName'))]}}}, "parameters": {"vmName": {"value": [field('name')]}, "location": {"value": [field('location')]}}}, id: "/providers/Microsoft.Authorization/policyDefinitions/3be22e3b-d919-47aa-805e-8985dbeb0ad9", "type": "Microsoft.Authorization/policyDefinitions", "name": "3be22e3b-d919-47aa-805e-8985dbeb0ad9", "properties": {"displayName": "PostgreSQL server should use a virtual network service endpoint", "mode": "Indexed", "description": "This policy audits PostgreSQL servers not configured to use a virtual network service endpoint. For more details, visit https://aka.ms/postgresqlvnet.", "metadata": {"version": "1.0.1", "category": "SQL"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}}}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.DBforPostgreSQL/servers"}, "then": {"effect": [parameters('effect')], "details": {"type": "Microsoft.DBforPostgreSQL/servers/virtualNetworkRules", "existenceCondition": {"field": "Microsoft.DBforPostgreSQL/servers/virtualNetworkSubnetId", "exists": "true"}}}}}, id: "providers/Microsoft.Authorization/policyDefinitions/3c14b034-bcb6-4905-94e7-5b8e98a47b65", "type": "Microsoft.Authorization/policyDefinitions", "name": "3c14b034-bcb6-4905-94e7-5b8e98a47b65", "properties": {"displayName": "Deploy Log Analytics agent for Windows virtual machine scale sets", "policyType": "BuiltIn", "mode": "Indexed", "description": "Deploy Log Analytics agent for Windows virtual machine scale sets if the VM Image (OS) is in the list defined and the agent is not installed. The list of OS images will be updated over time as support is updated. Note: if your scale set upgradePolicy is set to Manual, you need to apply the extension to the all VMs in the set by calling upgrade on them. In CLI this would be az vmss update-instances."}, "metadata": {"version": "1.0.1", "category": "Monitoring"}, "parameters": {"logAnalytics": {"type": "String", "metadata": {"displayName": "Log Analytics workspace"}, "description": "Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment’s principal"}}}}}},
List of VM images that have supported Windows OS to add to scope,"description":"Example value:
ameters("location")","apiVersion":"2018-06-01","properties":{"publisher":variables(vmExtensionPublisher)","type":variables(vmExtensionType)","typeHandlerVersion":variables(vmExtensionTypeHandlerVersion)","autoUpgradeMinorVersion":true,"settings":{
  "workspaceId":reference(parameters(logAnalytics)),
  "stopOnMultipleConnections":true,"protectedSettings":{
    "workspaceKey":"listKeys(parameters(logAnalytics))
  },"parameters":{
    "vmName":variables(name)
  },"outputs":{
    "policy":{
      "type":"string","value":concat(Enabled extension for: ",
  parameters(vmName)))},"parameters":{
    "vmName":variables(name),"location":variables(region)
  },"logAnalytics":variables(logAnalytics),"id":"/providers/Microsoft.Authorization/policyDefinitions/3c1b3629-c8f8-4bf6-862c-037cb9094038"},"type":"Microsoft.Authorization/policyDefinitions"},name:"3c1b3629-c8f8-4bf6-862c-037cb9094038"},{"properties":{
  "displayName":"Vulnerabilities in security configuration on your virtual machine scale sets should be remediated","policyType":"BuiltIn","mode":"Indexed","description":"Audit the OS vulnerabilities on your virtual machine scale sets to protect them from attacks.","metadata":{
    "version":"1.0.0","category":"Security Center"},"parameters":{
    "effect":{
      "type":"string","metadata":{
        "displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"policyRule":{"if":{
    "field":type,equals:Microsoft.Compute/virtualMachineScaleSets},"then":{
    "effect":variables(effect)
  },"details":Microsoft.Security/complianceResults,resourceStatus,OffByPolicy,Healthy","id":"/providers/Microsoft.Authorization/policyDefinitions/3c735d8a-a4ba-4a3a-b7cf-db7754cf57f4"},"type":"Microsoft.Authorization/policyDefinitions"},name:"3c735d8a-a4ba-4a3a-b7cf-db7754cf57f4"},{"properties":{
  "displayName":"Microsoft Managed Control 1621 - Resource Availability","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control","metadata":{
    "version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1621"},"policyRule":{"if":{
    "field":type,equals:Microsoft.Resources/subscriptions/subresourceGroups"},"then":{
    "effect":variables(effect)
  },"details":Microsoft.Security/complianceResults/resourceStatus,OffByPolicy,Healthy","id":"/providers/Microsoft.Authorization/policyDefinitions/3cb9f731-744a-4691-a481-ca77b0411538"},"type":"Microsoft.Authorization/policyDefinitions"},name:"3cb9f731-744a-4691-a481-ca77b0411538"},{"properties":{
  "displayName":"Microsoft Managed Control 1521 - Personnel Termination | Automated Notification","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Personnel Security control","metadata":{
    "version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1521"},"policyRule":{"if":{
    "field":type,equals:Microsoft.Resources/subscriptions/subresourceGroups"},"then":{
    "effect":variables(effect)
  },"details":Microsoft.Security/complianceResults/resourceStatus,OffByPolicy,Healthy","id":"/providers/Microsoft.Authorization/policyDefinitions/3cbddf9c-a3aa-4330-a0f5-4c0e1f1862e5"},"type":"Microsoft.Authorization/policyDefinitions"},name:"3cbddf9c-a3aa-4330-a0f5-4c0e1f1862e5"},{"properties":{
  "displayName":"Microsoft Managed Control 1127 - Time Stamps","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Audit and Accountability control","metadata":{
    "version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1127"},"policyRule":{"if":{
    "field":type,equals:Microsoft.Resources/subscriptions/subresourceGroups"},"then":{
    "effect":variables(effect)
  },"details":Microsoft.Security/complianceResults/resourceStatus,OffByPolicy,Healthy","id":"/providers/Microsoft.Authorization/policyDefinitions/3c61b3629-c8f8-4bf6-862c-037cb9094038"},"type":"Microsoft.Authorization/policyDefinitions"},name:"3c61b3629-c8f8-4bf6-862c-037cb9094038"}
Deploy Diagnostic Settings for Search Services to Event Hub

This policy deploys diagnostic settings for Search Services to a regional Event Hub when any Search Services which is missing this diagnostic settings is created or updated.

Effect: "DeployIfNotExists"

Profile Name: "setbypolicy_eventHub"

Event Hub Location: The location the Event Hub resides in. Only Search Services in this location will be linked to this Event Hub.

Enable metrics: Whether to enable metrics stream to the Event Hub - True or False

Enable logs: Whether to enable logs stream to the Event Hub - True or False
selected Log Analytics workspace"), "metadata": {"version": "1.0.0-deprecated", "category": "Compute", "deprecated": true}, "parameters": {"logAnalytics": {"type": "String", "metadata": {"displayName": "[Deprecated]: Log Analytics workspace"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines"}, {"field": "Microsoft.Compute/imagePublisher", "equals": "Canonical"}, {"field": "Microsoft.Compute/imageOffer", "equals": "UbuntuServer"}, {"field": "Microsoft.Compute/imageSKU", "in": ["18.04-LTS", "16.04-LTS", "16.04.0-LTS", "14.04.2-LTS", "12.04.5-LTS"]}], "then": {"effect": "deployIfNotExists"}, "details": {"type": "Microsoft.Compute/virtualMachines/extensions", "existenceCondition": {"allOf": [{"field": "Microsoft.Compute/virtualMachines/extensions/types/type", "equals": "OmsAgentForLinux"}, {"field": "Microsoft.Compute/virtualMachines/extensions/publisher", "equals": "Microsoft.EnterpriseCloud.Monitoring"}]}, "roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3-d43ce8d16293"], "deployment": {"properties": {"mode": "incremental", "template": "$schema": "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"vmName": {"type": "string"}, "location": {"type": "string"}, "logAnalytics": {"type": "string"}, "resources": {"[name]: [concat(parameters("vmName"), "/omsPolicy")], "type": "Microsoft.Compute/virtualMachines/extensions", "location": [parameters("location")], "apiVersion": "2017-12-01"}, "outputs": {"policy": {"type": "string", "value": [concat("Enabled monitoring for Linux VM ", parameters("vmName"))], "parameters": {"vmName": {"value": [field("name")], "location": {"value": [field("location")], "logAnalytics": {"value": [parameters("logAnalytics")]]}, "id": ["providers/Microsoft.Authorization/policyDefinitions/3d8640fc-63f6-4734-8dcb-cfd3dc8f78f38", "type": "Microsoft.Authorization/policyDefinitions", "name": "3d8640fc-63f6-4734-8dcb-cfd3dc8f78f38"], "properties": {"displayName": "Microsoft Managed Control 1385 - Information Spillage Response", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": ["providers/Microsoft.PolicyInsights/policyMetadata/A59758"], "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}], "then": {"effect": "audit"}}}, "id": ["providers/Microsoft.Authorization/policyDefinitions/3e495e65-8663-49ca-9b38-9f45e800bc58", "type": "Microsoft.Authorization/policyDefinitions", "name": "3e495e65-8663-49ca-9b38-9f45e800bc58"], "properties": {"displayName": "Azure Monitor solution "Security and Audit" must be deployed", "policyType": "BuiltIn", "mode": "All", "description": "This policy ensures that Security and Audit is deployed.", "metadata": {"version": "1.0.0", "category": "Monitoring"}, "parameters": {"type": "String", metadata: {"displayName": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}}, "policyRule": {"if":
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Managed Control 1160 - Security Authorization

Microsoft implements this Security Assessment and Authorization control.

Managed Control 1454 - Risk Assessment

Microsoft implements this Risk Assessment control.

Managed Control 1179 - Baseline Configuration | Reviews And Updates

Audit API Applications that are not using latest supported PHP Framework.

The latest supported PHP version for the latest security classes. Using older classes and types can make your application vulnerable.
Microsoft implements this System and Services Acquisition control, metadata: {"version":"1.0.0","category":"Regulatory Compliance"}, additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1561 }, policyRule :{ "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": false, "equals": true } ], "then": { "effect": "audit" } } }, id: /providers/Microsoft.Authorization/policyDefinitions/403643c-f-c331-4e29-b1e3-2fe998ba2f5 , type: "Microsoft.Authorization/policyDefinitions", name: "403643c-f-c331-4e29-b1e3-2fe998ba2f5" }, { "properties": { "displayName": "Secure transfer to storage accounts should be enabled", "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit requirement of Secure transfer in your storage account. Secure transfer is an option that forces your storage account to accept requests only from secure connections (HTTPS). Use of HTTPS ensures authentication between the server and the service and protects data in transit from network layer attacks such as man-in-the-middle, eavesdropping, and session-hijacking", metadata: { "version": "2.0.0", "category": "Storage" }, parameters: { "effect": { "type": "String", metadata: { "displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match" }, allowedValues: [ "Audit", "Deny", "Disabled" ], defaultValues: [ "Audit" ] }, policyRule :{ "if": { "allOf": [ { "field": "type", "equals": "Microsoft.Storage/storageAccounts" }, { "anyOf": [ { "value": [requestContext().apiVersion], lessThan": 2019-04-01 ] }, { "field": "Microsoft.Storage/storageAccounts/supportsHttpsTrafficOnly", doesn'tExist": false } ] }, { "field": "Microsoft.Storage/storageAccounts/supportsHttpsTrafficOnly", equals": false } ] }, then: { "effect": [ parameters["effect"] ] } } }, id: /providers/Microsoft.Authorization/policyDefinitions/404c3081-a854-4457-ae30-26a93e6439f , type: "Microsoft.Authorization/policyDefinitions", name: "404c3081-a854-4457-ae30-26a93e6439f" }, { "properties": { "displayName": "Microsoft Managed Control 1100 - Audit And Accountability Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", metadata: { "version": "1.0.0" }, category:"Regulatory Compliance" }, additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1100 }, policyRule :{ "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": false, "equals": true } ], "then": { "effect": "audit" } } }, id: /providers/Microsoft.Authorization/policyDefinitions/4057863-c-ca7d-47eb-b1e0-503580c8a8a4 , type: "Microsoft.Authorization/policyDefinitions", name: "4057863-c-ca7d-47eb-b1e0-503580c8a8a4" }, { "properties": { "displayName": "Microsoft Managed Control 1637 - Boundary Protection | Fail Secure", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", metadata: { "version": "1.0.0" }, category:"Regulatory Compliance" }, additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1637 }, policyRule :{ "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": false, "equals": true } ], "then": { "effect": "audit" } } }, id: /providers/Microsoft.Authorization/policyDefinitions/4075bedc-c62a-4635-bede-a01be8980f73 , type: "Microsoft.Authorization/policyDefinitions", name: "4075bedc-c62a-4635-bede-a01be8980f73" }, { "properties": { "displayName": "[Preview]: Deploy prerequisites to audit Windows VMs configurations in "Administrative Templates - System"", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines" } }
with non-compliant settings in Group Policy category: "Administrative Templates - System". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

```json
"parameters":
{
  "AlwaysUseClassicLogon":
  {
    "type": "String",
    "defaultValue": "0",
    "displayName": "Always use classic logon",
    "description": "Specifies whether to force the user to log on to the computer using the classic logon screen. This setting only works when the computer is not on a domain."
  },
  "BootStartDriverInitializationPolicy":
  {
    "type": "String",
    "defaultValue": "3",
    "displayName": "Boot-Start Driver Initialization Policy",
    "description": "Specifies which boot-start drivers are initialized based on a classification determined by an Early Launch Antimalware boot-start driver."
  },
  "EnableWindowsNTPClient":
  {
    "type": "String",
    "defaultValue": "1",
    "displayName": "Enable Windows NTP Client",
    "description": "Specifies whether the Windows NTP Client is enabled. Enabling the Windows NTP Client allows your computer to synchronize its computer clock with other NTP servers."
  },
  "TurnOnConveniencePINSignin":
  {
    "type": "String",
    "defaultValue": "0",
    "displayName": "Turn on convenience PIN sign-in",
    "description": "Specifies whether a domain user can sign in using a convenience PIN."
  }
}
```

```json
"policyRule":
{
  "if":
  {
    "anyOf":
    {
      "allOf":
      {
        "field": "type",
        "equals": "Microsoft.Compute/virtualMachines",
        "anyOf":
        {
          "field": "Microsoft.Compute/imagePublisher",
          "allOf":
          {
            "field": "Microsoft.Compute/imagePublisher",
            "equals": "MicrosoftWindowsServer",
            "field": "Microsoft.Compute/imageSKU",
            "notLike": "2008*"}
        },
        "allOf":
        {
          "field": "Microsoft.Compute/imagePublisher",
          "equals": "MicrosoftSQLServer",
          "field": "Microsoft.Compute/imageOffer",
          "notLike": "SQL2008*"
        },
        "allOf":
        {
          "field": "Microsoft.DsvmWindows",
          "field": "Microsoft.Compute/imageOffer",
          "equals": "dsvm-windows"
        },
        "allOf":
        {
          "field": "Microsoft.Compute/imagePublisher",
          "equals": "microsoft-ads",
          "field": "Microsoft.Compute/imageOffer",
          "in": ["standard-data-science-vm", "windows-data-science-vm"]
        },
        "allOf":
        {
          "field": "Microsoft.Compute/imagePublisher",
          "equals": "batch",
          "field": "Microsoft.Compute/imageOffer",
          "equals": "rendering-windows2016"
        },
        "allOf":
        {
          "field": "Microsoft.Compute/imagePublisher",
          "equals": "center-for-internet-security",
          "field": "Microsoft.Compute/imageOffer",
          "like": "cisco-windows-server-201*"
        },
        "allOf":
        {
          "field": "Microsoft.Compute/imagePublisher",
          "equals": "pivotal",
          "field": "Microsoft.Compute/imageOffer",
          "like": "bosh-windows-server*"
        },
        "allOf":
        {
          "field": "Microsoft.Compute/imagePublisher",
          "equals": "cloud-infrastructure-services",
          "field": "Microsoft.Compute/imageOffer",
          "like": "ad*"
        },
        "allOf":
        {
          "anyOf":
          {
            "field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration",
            "exists": "true",
            "field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType",
            "like": "Windows*"
          },
          "anyOf":
          {
            "field": "Microsoft.Compute/imageSKU",
            "exists": "false"
          }
        }
      }
    }
  }
  ,
  "then":
  {
    "effect": "deployIfNotExists"
  }
}
```

---

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"details": 
  ["roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"], 
  "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", 
  "name": "AzureBaseline_AdministrativeTemplatesSystem", 
  "existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash", 
  "equals": ["base64(concat('Always use classic logon;ExpectedValue', 
  ", parameters("AlwaysUseClassicLogon"), 
  ", "Boot-Start Driver Initialization Policy;ExpectedValue", 
  ", parameters("BootStartDriverInitializationPolicy"), 
  ", "Enable Windows NTP Client;ExpectedValue", 
  ", parameters("EnableWindowsNTPClient"), 
  ", "Turn on convenience PIN sign-in;ExpectedValue", 
  ", parameters("TurnOnConveniencePINSignin"))]
  }, 
  "deployment": {"properties": {"mode": "incremental", "parameters": 
  ["vmName": 
    ["value": "[field('name')]"], 
  "location": 
    ["value": "[field('location')]"], 
  "type": 
    ["value": "[field('type')]"], 
  "configurationName": 
    ["value": "AzureBaseline_AdministrativeTemplatesSystem"], 
  "AlwaysUseClassicLogon": 
    ["value": "[parameters("AlwaysUseClassicLogon")]"]}, 
  "BootStartDriverInitializationPolicy": 
    ["value": "[parameters("BootStartDriverInitializationPolicy")]"], 
  "EnableWindowsNTPClient": 
    ["value": "[parameters("EnableWindowsNTPClient")]"], 
  "TurnOnConveniencePINSignin": 
    ["value": "[parameters("TurnOnConveniencePINSignin")]"], 
  "template": 
    ["$schema": 
      "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", 
      "contentVersion": "1.0.0.0", 
      "parameters": 
        ["vmName": 
          ["type": "string"], 
        "location": 
          ["type": "string"], 
        "type": 
          ["type": "string"], 
        "configurationName": 
          ["type": "string"], 
        "AlwaysUseClassicLogon": 
          ["type": "string"], 
        "BootStartDriverInitializationPolicy": 
          ["type": "string"], 
        "EnableWindowsNTPClient": 
          ["type": "string"], 
        "TurnOnConveniencePINSignin": 
          ["type": "string"], 
        "resources": 
          ["condition": 
            ["equals": 
              [toLower(parameters("type")), 
              toLower("microsoft.hybridcompute/machines")], 
              "apiVersion": "2018-11-20", 
              "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", 
              "name": 
                [concat(parameters("vmName"), 
                "Microsoft.GuestConfiguration", 
                parameters("configurationName"), "location": 
                [parameters("location")], 
                "properties": 
                ["guestConfiguration": 
                ["name": 
                [parameters("configurationName")], 
                "version": "1.*", 
                "configurationParameter": ["["name": "Always use classic logon;ExpectedValue", 
                "value": "[parameters("AlwaysUseClassicLogon")]"]], 
                "name": "BootStartDriverInitializationPolicy"], 
                "value": "[parameters("BootStartDriverInitializationPolicy")]"]], 
                "name": "Enable Windows NTP Client;ExpectedValue", 
                "value": "[parameters("EnableWindowsNTPClient")]", 
                "name": "Turn on convenience PIN sign-in;ExpectedValue", 
                "value": "[parameters("TurnOnConveniencePINSignin")]"]], 
                "condition": ["equals": 
                [toLower(parameters("type")), 
                toLower("Microsoft.Compute/virtualMachines")], 
                "apiVersion": "2018-11-20", 
                "type": "Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments", 
                "name": [concat(parameters("vmName"), 
                "Microsoft.GuestConfiguration", 
                parameters("configurationName"), "location": 
                [parameters("location")], 
                "properties": 
                ["guestConfiguration": 
                ["name": 
                [parameters("configurationName")], 
                "version": "1.*", 
                "configurationParameter": ["["name": "Always use classic logon;ExpectedValue", 
                "value": "[parameters("AlwaysUseClassicLogon")]"]], 
                "name": "BootStartDriverInitializationPolicy"], 
                "value": "[parameters("BootStartDriverInitializationPolicy")]"]], 
                "name": "Enable Windows NTP Client;ExpectedValue", 
                "value": "[parameters("EnableWindowsNTPClient")]", 
                "name": "Turn on convenience PIN sign-in;ExpectedValue", 
                "value": "[parameters("TurnOnConveniencePINSignin")]"]], 
                "condition": ["equals": 
                [toLower(parameters("type")), 
                toLower("Microsoft.Compute/virtualMachines")], 
                "apiVersion": "2019-07-01", 
                "type": "Microsoft.Compute/virtualMachines", 
                "identity": ["type": "SystemAssigned"], 
                "name": [parameters("vm
Managed Control 1202 - Access Restrictions For Change

Microsoft implements this Configuration Management control, metadata: {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1202",
"policyRule": {
"if": {
"allOf": [
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
],
"value": false,
"equals": true
]
},
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/40af3a83-74f2-4c02-ae65-f460ad2792da",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "40af3a83-74f2-4c02-ae65-f460ad2792da"}

Managed Control 1438 - Media Sanitization

Microsoft implements this Media Protection control, metadata: {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1438",
"policyRule": {
"if": {
"allOf": [
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
],
"value": false,
"equals": true
]
},
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/40fccc65-52a2-4dbc-9523-80af4a4a1d6e",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "40fccc65-52a2-4dbc-9523-80af4a4a1d6e"}

Managed Control 1365 - Incident Handling | Continuity Of Operations

Microsoft implements this Media Protection control, metadata: {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1365",
"policyRule": {
"if": {
"allOf": [
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
],
"value": false,
"equals": true
]
},
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/40fccc65-52a2-4dbc-9523-80af4a4a1d6e",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "40fccc65-52a2-4dbc-9523-80af4a4a1d6e"}
implements this Incident Response control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1365"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/4116891d-72f7-46ee-911c8056cc8dcbd5","type":"Microsoft.Authorization/policyDefinitions","name":"4116891d-72f7-46ee-911c8056cc8dcbd5"},{"properties":{"displayName":"Microsoft
Managed Control 1022 - Account Management | Shared / Group Account Credential
Termination","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1022"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/411f7e2d-9a0b-4627-a0b91700432db47d","type":"Microsoft.Authorization/policyDefinitions","name":"411f7e2d-9a0b-4627-a0b91700432db47d"},{"properties":{"displayName":"Microsoft
Managed Control 1464 - Monitoring Physical Access | Intrusion Alarms / Surveillance
Equipment","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Physical and Environmental Protection
control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1464"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/41256567-1795-4684-b00ba1308ce43cac","type":"Microsoft.Authorization/policyDefinitions","name":"41256567-1795-4684-b00ba1308ce43cac"},{"properties":{"displayName":"Azure
Monitor should collect activity logs from all regions","policyType":"BuiltIn","mode":"All","description":"This
policy audits the Azure Monitor log profile which does not export activities
from all Azure supported regions including
global.","metadata":{"version":"1.0.0","category":"Monitoring"},"parameters":{"effect":{"type":"String","metadata
":{"displayName":"Effect","description":"Enable
or disable the execution of the
policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}},"policyRule":{"if":
{"field":"type","equals":"Microsoft.Resources/subscriptions"},"then":{"effect":"[parameters(''effect'')]","details":{"t
ype":"Microsoft.Insights/logProfiles","existenceCondition":{"allOf":[{"not":{"field":"Microsoft.Insights/logProfiles
/locations[*]","notEquals":"australiacentral"}},{"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEqu
als":"australiacentral2"}},{"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"australiaeast"}}
,{"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"australiasoutheast"}},{"not":{"field":"Mi
crosoft.Insights/logProfiles/locations[*]","notEquals":"brazilsouth"}},{"not":{"field":"Microsoft.Insights/logProfile
s/locations[*]","notEquals":"canadacentral"}},{"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEqu
als":"canadaeast"}},{"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"centralindia"}},{"not
":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"centralus"}},{"not":{"field":"Microsoft.Insight
s/logProfiles/locations[*]","notEquals":"eastasia"}},{"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","n
otEquals":"eastus"}},{"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"eastus2"}},{"not":{
"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"francecentral"}},{"not":{"field":"Microsoft.Insigh
ts/logProfiles/locations[*]","notEquals":"francesouth"}},{"not":{"field":"Microsoft.Insights/logProfiles/locations[*]
","notEquals":"japaneast"}},{"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"japanwest"}}
,{"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"koreacentral"}},{"not":{"field":"Microso

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Managed Control 1263 - Contingency Plan Testing

Managed Control 1096 - Role-Based Security Training | Practical Exercises

Managed Control 1260 - Contingency Training | Simulated Events

Managed Control 1694 - Information System Monitoring | Analyze Communications Traffic Anomalies

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null
Deploy prerequisites to audit Windows VMs configurations in "Security Options - System settings". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - System settings". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

System settings: Use Certificate Rules on Windows Executables for Software Restriction Policies. Specifies whether digital certificates are processed when software restriction policies are enabled and a user or process attempts to run software with an .exe file name extension. It enables or disables certificate rules (a type of software restriction policies rule).

For certificate rules to take effect in software restriction policies, you must enable this policy setting."

```
"defaultValue": "1"]}, "policyRule": {
  "if": {
    "anyOf": [{
      "field": "Microsoft.Compute/virtualMachines", "anyOf": [
        {"field": "Microsoft.Compute/imagePublisher", "in": "esri"},
        {"field": "Microsoft.GuestConfiguration"}
      ]}, {
      "field": "Microsoft.WindowsServerCoreCoreOSFamily", "like": "2016*"
    }]
  },
  "then": {
    "effect": "deployIfNotExists",
    "details": {
      "roleDefinitionIds": [
        "/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"
      ],
      "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments",
      "name": "AzureBaseline_SecurityOptionsSystemsettings",
      "existenceCondition": {
        "field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash",
        "equals": "[base64(concat("System settings: Use Certificate Rules on Windows Executables for Software Restriction Policies;ExpectedValue", "]",
```
"https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", 
"contentVersion": "1.0.0.0", "parameters": {"vmName": "[type]: string", "location": "[type]: string", "type": "[type]: string", "configurationName": "[type]: string"}, 
"SystemSettingsUseCertificateRulesOnWindowsExecutablesForSoftwareRestrictionPolicies": "[type]: string"}, 
"resources": [{"condition": "equals(toLower(parameters('type'))),
  toLower(microsoft.hybridcompute/machines))", "apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", "name": "[concat(parameters('vmName'), 
"Microsoft.GuestConfiguration", 
parameters("configurationName"))]", 
"location": "[parameters('location')]", 
"properties": {"guestConfiguration": {"name": "[parameters('configurationName')]", "version": "1.*", "configurationParameter": {"[name]: System settings: Use Certificate Rules on Windows Executables for Software Restriction Policies;ExpectedValue", "value": [parameters("SystemSettingsUseCertificateRulesOnWindowsExecutablesForSoftwareRestrictionPolicies")"]}}}, 
"condition": "equals(toLower(parameters('type'))),
  toLower(Microsoft.Compute/virtualMachines))", "apiVersion": "2018-11-20", "type": "Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments", "name": "[concat(parameters('vmName'), 
"Microsoft.GuestConfiguration", 
parameters("configurationName"))]", 
"location": "[parameters('location')]", 
"properties": {"guestConfiguration": {"name": "[parameters('configurationName')]", "version": "1.*", "configurationParameter": {"[name]: System settings: Use Certificate Rules on Windows Executables for Software Restriction Policies;ExpectedValue", "value": [parameters("SystemSettingsUseCertificateRulesOnWindowsExecutablesForSoftwareRestrictionPolicies")"]}}}, 
"condition": "equals(toLower(parameters('type'))),
  toLower(Microsoft.Compute/virtualMachines))", "apiVersion": "2019-07-01", "type": "Microsoft.Compute/virtualMachines", "identity": {"type": "SystemAssigned"}, "name": "[parameters('vmName')]", "location": "[parameters('location')]", 
"condition": "equals(toLower(parameters('type'))),
  toLower(Microsoft.Compute/virtualMachines))", "apiVersion": "2015-05-01-preview", "name": "[concat(parameters('vmName'), 
"AzurePolicyforWindows])", "type": "Microsoft.Compute/virtualMachines/extensions", "location": "[parameters('location')]", 
"dependsOn": ["[concat(Microsoft.Compute/virtualMachines/parameters('vmName'), 
/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/parameters('configurationName'))]"]}, 
"id": "/providers/Microsoft.Authorization/policyDefinitions/437a1f8f-8552-47a8-8b12-a2fee3269dd5", "type": "Microsoft.Authorization/policyDefinitions", "name": "437a1f8f-8552-47a8-8b12-a2fee3269dd5", "properties": {"displayName": "Microsoft Managed Control 1544 - Risk Assessment", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Risk Assessment control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1544"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", 
"Microsoft.Resources/subscriptions/resourceGroups"]}, 
"value": false, "equals": true}], 
"then": {"effect": "audit"}}}, 
"id": "/providers/Microsoft.Authorization/policyDefinitions/43ced7c9-cd53-456b-b0da- 
2522649a4271", "type": "Microsoft.Authorization/policyDefinitions", "name": "43ced7c9-cd53-456b-b0da-
2522649a4271"},{"properties":{"displayName":"Microsoft
Managed Control 1398 - Controlled Maintenance","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Maintenance control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1398"},"policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"]}, {"then":{"effect":"audit"}}],"id":"/providers/Microsoft.Authorization/policyDefinitions/443e8f3d-b51a-45d8-95a7-18b0e42f4dc4"},"type":"Microsoft.Authorization/policyDefinitions","name":"443e8f3d-b51a-45d8-95a7-18b0e42f4dc4"},{"properties":{"displayName":"Microsoft Managed Control 1398 - Controlled Maintenance","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Maintenance control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1398"},"policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"]}, {"then":{"effect":"audit"}}],"id":"/providers/Microsoft.Authorization/policyDefinitions/443e8f3d-b51a-45d8-95a7-18b0e42f4dc4"},"type":"Microsoft.Authorization/policyDefinitions","name":"443e8f3d-b51a-45d8-95a7-18b0e42f4dc4"},{"properties":{"displayName":"Microsoft Managed Control 1398 - Controlled Maintenance","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Maintenance control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1398"},"policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"]}, {"then":{"effect":"audit"}}],"id":"/providers/Microsoft.Authorization/policyDefinitions/443e8f3d-b51a-45d8-95a7-18b0e42f4dc4"},"type":"Microsoft.Authorization/policyDefinitions","name":"443e8f3d-b51a-45d8-95a7-18b0e42f4dc4"},{"properties":{"displayName":"Microsoft Managed Control 1066 - Remote Access | Disconnect / Disable Access","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1066"},"policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"]}, {"then":{"effect":"audit"}}],"id":"/providers/Microsoft.Authorization/policyDefinitions/4455c2e8-c65d-4acf-895e-30491f690b36"},"type":"Microsoft.Authorization/policyDefinitions","name":"4455c2e8-c65d-4acf-895e-30491f690b36"},{"properties":{"displayName":"Microsoft Managed Control 1720 - Spam Protection","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1720"},"policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"]}, {"then":{"effect":"audit"}}],"id":"/providers/Microsoft.Authorization/policyDefinitions/44b9a7cd-f36a-491a-a48b-6d04ae7c4221"},"type":"Microsoft.Authorization/policyDefinitions","name":"44b9a7cd-f36a-491a-a48b-6d04ae7c4221"},"properties":{"displayName":"Microsoft Managed Control 1334 - Authenticator Management | Pki-Based Authentication","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Identification and Authentication control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1334"},"policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"]}, {"then":{"effect":"audit"}}],"id":"/providers/Microsoft.Authorization/policyDefinitions/44b9a7cd-f36a-491a-a48b-6d04ae7c4221"},"type":"Microsoft.Authorization/policyDefinitions","name":"44b9a7cd-f36a-491a-a48b-6d04ae7c4221"},"properties":{"displayName":"Microsoft Managed Control 1334 - Authenticator Management | Pki-Based Authentication","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Identification and Authentication control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1334"},"policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"]}, {"then":{"effect":"audit"}}],"id":"/providers/Microsoft.Authorization/policyDefinitions/44b9a7cd-f36a-491a-a48b-6d04ae7c4221"},"type":"Microsoft.Authorization/policyDefinitions","name":"44b9a7cd-f36a-491a-a48b-6d04ae7c4221"}}

Open Source Used In SDWan 20.7.1 8540
Managed Control 1565 - System Development Life Cycle

Managed Control 1337 - Authenticator Management | In-Person Or Trusted Third-Party Registration

Managed Control 1346 - Identification And Authentication (Non-Organizational Users)

Managed Control 1346 - Identification And Authentication (Non-Organizational Users)
Center", "deprecated": true, "parameters": [{ "effect": "deny" }, "description": "Audit if Not Exists", "metadata": { "displayName": "Audit If Not Exists" } }, "policyRule": { "if": { "allOf": [ { "field": "type", "equals": "microsoft.Web/sites" }, { "anyOf": [ { "field": "kind", "equals": "app" }, { "field": "kind", "equals": "WebApp" } ] } ] }, "then": { "effect": "deny" } }, "details": { "type": "Microsoft.Security/complianceResults", "name": "UseLatestPython", "existenceCondition": { "field": "Microsoft.Security/complianceResults/resourceStatus", "in": [ "OnByPolicy", "Healthy" ] } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/46544d7b-1f0d-46f5-81da-5c1351de1b06", "type": "Microsoft.Authorization/policyDefinitions", "name": "46544d7b-1f0d-46f5-81da-5c1351de1b06" }, "properties": { "displayName": "Require automatic OS image patching on Virtual Machine Scale Sets", "policyType": "BuiltIn", "mode": "All", "description": "This policy enforces enabling automatic OS image patching on Virtual Machine Scale Sets to always keep Virtual Machines secure by safely applying latest security patches every month." }, "metadata": { "version": "1.0.0", "category": "Compute", "parameters": [], "policyRule": { "if": { "allOf": [ { "field": "type", "equals": "Microsoft.Compute/virtualMachineScaleSets" }, { "field": "Microsoft.Compute/VirtualMachineScaleSets/upgradePolicy.automaticOSUpgradePolicy.enableAutomaticOSUpgrade", "notEquals": "True" }, { "field": "Microsoft.Compute/VirtualMachineScaleSets/upgradePolicy.automaticOSUpgradePolicy.enableAutomaticOSUpgrade", "notEquals": "True" } ] }, "then": { "effect": "deny" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/465f0161-0087-490a-9ad9-ad6217f4f43a", "type": "Microsoft.Authorization/policyDefinitions", "name": "465f0161-0087-490a-9ad9-ad6217f4f43a" }, "properties": { "displayName": "Microsoft Managed Control 1368 - Incident Handling | Correlation With External Organizations", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1368" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": false, "equals": true } ] }, "then": { "effect": "audit" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/465f32da-0ace-4603-8d1b-7be5a3a702de", "type": "Microsoft.Authorization/policyDefinitions", "name": "465f32da-0ace-4603-8d1b-7be5a3a702de" }, "properties": { "displayName": "Microsoft Managed Control 1062 - Remote Access | Protection Of Confidentiality / Integrity Using Encryption", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control User Managed Identity (UMI) control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1062" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": false, "equals": true } ] }, "then": { "effect": "audit" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/4708723f-e099-4af1-bbf9-b6df7642e444", "type": "Microsoft.Authorization/policyDefinitions", "name": "4708723f-e099-4af1-bbf9-b6df7642e444" }, "properties": { "displayName": "Azure Cosmos DB key based metadata write access should be disabled", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy enables you to ensure all Azure Cosmos DB accounts disable key based metadata write access.", "metadata": { "version": "1.0.0", "category": "Cosmos DB" }, "parameters": [], "policyRule": { "if": { "allOf": [ { "field": "type", "equals": "Microsoft.DocumentDB/databaseAccounts" } ] }, "then": { "effect": "append", "details": [ { "field": "Microsoft.DocumentDB/databaseAccounts/disableKeyBasedMetadataWriteAccess", "value": true } ] } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/4750c32b-89c0-46af-bfcb-2e4541a818d5", "type": "Microsoft.Authorization/policyDefinitions", "name": "4750c32b-89c0-46af-bfcb-
Automatic provisioning of the Log Analytics monitoring agent should be enabled on your subscription.

Enable automatic provisioning of the Log Analytics monitoring agent in order to collect security data.

Enable automatic provisioning of the Log Analytics monitoring agent should be enabled on your subscription.

Enable automatic provisioning of the Log Analytics monitoring agent should be enabled on your subscription.

Application Controls should be enabled on virtual machines.

Application Whitelist configuration will be monitored by Azure Security Center.

Managed Control 1359 - Incident Response Testing | Coordination With Related Plans.

Managed Control 1165 - Continuous Monitoring.

Managed Control 1048 - System Use Notification.
backup should be enabled for Azure Database for PostgreSQL. This policy audits any Azure Database for PostgreSQL with geo-redundant backup not enabled.

### Managed Control 1669 - Flaw Remediation
Microsoft Managed Control 1669 - Flaw Remediation implementation details:
- Policy Type: Static
- Mode: Indexed
- Description: Microsoft implements this System and Information Integrity control
- Metadata: Version 1.0.0, Category: Regulatory Compliance, Additional Metadata ID: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1669
- Policy Rule:
  - If:
    - All of:[
      - Field: type, In: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
      - Value: false, equals: true
    ]
  - Then:
    - Effect: audit
- Identifier:
  - /providers/Microsoft.Authorization/policyDefinitions/48f2f62b-5743-4415-a143-288adc0e078d

### Managed Control 1376 - Incident Response Assistance | Coordination With External Providers
Microsoft Managed Control 1376 - Incident Response Assistance | Coordination With External Providers implementation details:
- Policy Type: Static
- Mode: Indexed
- Description: Microsoft implements this Incident Response control
- Metadata: Version 1.0.0, Category: Regulatory Compliance, Additional Metadata ID: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1376
- Policy Rule:
  - If:
    - All of:[
      - Field: type, In: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
      - Value: false, equals: true
    ]
  - Then:
    - Effect: audit
- Identifier:
  - /providers/Microsoft.Authorization/policyDefinitions/493a95f3-f2e3-47d0-af02-65e6d6dce2f

### Ensure that "Java version" is the latest, if used as a part of the Web app
Microsoft Managed Control implementation details:
- Policy Type: BuiltIn
- Mode: Indexed
- Description: Periodically, newer versions are released for Java software either due to security flaws or to include additional functionality. Using the latest Java version for web apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.
- Metadata: Version 1.0.0
- Policy Rule:
  - If:
    - All of:
      - Field: kind, Like: app*
    - Then:
      - Effect: audit
- Identifier:
  - /providers/Microsoft.Authorization/policyDefinitions/493a95f3-f2e3-47d0-af02-65e6d6dce2f

### Latest supported Java version for App Services
Microsoft Managed Control implementation details:
- Policy Type: BuiltIn
- Mode: Indexed
- Description: Latest supported Java version for App Services
- Metadata: Version 1.0.0
- Policy Rule:
  - If:
    - All of:
      - Field: kind, Like: app*
    - Then:
      - Effect: audit
- Identifier:
  - /providers/Microsoft.Authorization/policyDefinitions/493a95f3-f2e3-47d0-af02-65e6d6dce2f

### Open Source Used In SD Wan 20.7.1
- System and Information Integrity control
Deploy prerequisites to audit Windows VMs configurations in "Security Options - Audit". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Audit". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Audit: Shut down system immediately if unable to log security audits.

if the system will shut down when unable to log Security events.

Audit: Shut down system immediately if unable to log security audits.

if the system will shut down when unable to log Security events.
"mode": "incremental", "parameters": {
"vmName": {
"value": [field("name")]
},
"location": {
"value": [field("location")]
},
"type": {
"value": [field("type")]
},
"configurationName": {
"value": [AzureBaseline_SecurityOptionsAudit],
"AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits": {
"value": [parameters("AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits")]
}
},
"template": {
"$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
"contentVersion": "1.0.0.0",
"parameters": {
"vmName": {
"type": "string",
"location": {
"type": "string"
},
"type": {
"type": "string"
},
"configurationName": {
"type": "string"
},
"AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits": {
"type": "string"
},
"resources": {
"condition": {
"equals": (toLower(parameters("type")),
"Microsoft.HybridCompute/machines")
}
},
"apiVersion": "2018-11-20",
"type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments",
"name": [concat(parameters("vmName"),
"/Microsoft.GuestConfiguration/" ,
parameters("configurationName")]
},
"location": [parameters("location")]
},
"properties": {
"guestConfiguration": {
"name": [parameters("configurationName")],
"version": "1.0",
"configurationParameter": {
"name": "AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits",
"value": [parameters("AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits")]

Shut down system immediately if unable to log security audits; ExpectedValue: [parameters("AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits")]
},
"condition": {
"equals": (toLower(parameters("type")),
"Microsoft.HybridCompute/virtualMachines")
},
"apiVersion": "2018-11-20",
"type": "Microsoft.HybridCompute/virtualMachines/providers/guestConfigurationAssignments",
"name": [concat(parameters("vmName"),
"/Microsoft.GuestConfiguration/" ,
parameters("configurationName")]
},
"location": [parameters("location")]
},
"properties": {
"guestConfiguration": {
"name": [parameters("configurationName")],
"version": "1.0",
"configurationParameter": {
"name": "AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits",
"value": [parameters("AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits")]

Shut down system immediately if unable to log security audits; ExpectedValue: [parameters("AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits")]
},
"condition": {
"equals": (toLower(parameters("type")),
"Microsoft.HybridCompute/virtualMachines")
},
"apiVersion": "2019-07-01",
"type": "Microsoft.HybridCompute/virtualMachines",
"identity": {
"type": "SystemAssigned"
},
"name": [parameters("vmName")],
"location": [parameters("location")]
},
"condition": {
"equals": (toLower(parameters("type")),
"Microsoft.HybridCompute/virtualMachines")
},
"apiVersion": "2015-05-01-preview",
"name": [concat(parameters("vmName"),
"/AzurePolicyforWindows")],
"type": "Microsoft.Compute/virtualMachines/extensions",
"location": [parameters("location")]
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"properties": {
"publisher": "Microsoft.GuestConfiguration",
"type": "ConfigurationforWindows",
"typeHandlerVersion": "1.1",
"autoUpgradeMinorVersion": true,
"settings": {},
"protectedSettings": {},
"dependsOn": [concat("Microsoft.Compute/virtualMachines/", parameters("vmName"), "/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/", parameters("configurationName")]
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"id": [providers/Microsoft.Authorization/policyDefinitions/498b810c-59cd-4222-9338-352ba146ecf3],
"type": "Microsoft.Authorization/policyDefinitions",
"name": [498b810c-59cd-4222-9338-352ba146ecf3],
"properties": {
"displayName": "Microsoft Managed Control 1329 - Authenticator Management | Password-Based Authentication",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft implements this Identification and Authentication control",
"metadata": {
"version": "1.0",
"category": "Regulatory Compliance",
"additionalMetadataId": [providers/Microsoft.PolicyInsights/policyMetadata/ACF1329],
"policyRule": {
"if": {
"allOf": ["[Field]:"type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]]
},
"value": [false],
"equals": [true]
}
},
"then": {
"effect": ["audit"]
}
},
"id": [providers/Microsoft.Authorization/policyDefinitions/498f6234-3e20-4b6a-a880-
Open Source Used In SDWan

Microsoft Managed Control 1638 - Boundary Protection | Dynamic Isolation / Segregation

Microsoft implements this System and Communications Protection control.

Managed Control 1294 - Information System Backup | Transfer To Alternate Storage Site

Microsoft implements this Contingency Planning control.

Managed Control 1218 - Least Functionality | Prevent Program Execution

Microsoft implements this Configuration Management control.

Parameters:
- **tagName**: String
  - Description: Name of the tag, such as "environment"
- **tagValue**: String
  - Description: Value of the tag, such as "production"

Policies:
- **append**: Appends a tag and its value to resource groups.
- **audit**: Appends the specified tag and value when any resource group which is missing this tag is created or updated. Does not modify the tags of resource groups created before this policy was applied until those resource groups are changed. New "modify" effect policies are available that support remediation of tags on existing resources (see https://aka.ms/modifydoc).

Policy Definitions:
- **49b99653-32cd-405d-a135-e7d60a9ae11**: Append a tag and its value to resource groups.
- **49c88fc8-6fd1-46fd-a676-f12d1d3a4c71**: Append a tag and its value to resource groups.
- **4a1d0394-b9f5-493e-9e83-563fd0ae4df8**: Append a tag and its value to resource groups.


Managed Control 1677 - Malicious Code Protection

Microsoft implements this System and Information Integrity control.

Managed Control 1094 - Role-Based Security Training

Microsoft implements this Awareness and Training control.

Managed Control 1114 - Response To Audit Processing Failures | Real-Time Alerts

Microsoft implements this Audit and Accountability control.

Managed Control 1364 - Incident Handling | Dynamic Reconfiguration

Microsoft implements this Incident Response control.
Open Source Used In SDWan

Managed Control 1661 - Session Authentication | Invalidate Session Identifiers
At Logout

Managed Control 1373 - Incident Reporting | Automated Reporting

Managed Control 1632 - Boundary Protection | Prevent Split Tunneling For Remote Devices

Deploy prerequisites to audit Linux VMs that do not have the specified applications installed

Microsoft

Managed Control 1661 - Session Authentication | Invalidate Session Identifiers
At Logout

Microsoft

Managed Control 1373 - Incident Reporting | Automated Reporting

Microsoft

Managed Control 1632 - Boundary Protection | Prevent Split Tunneling For Remote Devices

Microsoft
edHat"},{"field":"Microsoft.Compute/imageOffer","equals":"RHEL"},{"field":"Microsoft.Compute/imageSKU","n
otLike":"6*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"RedHat"},{"field":"Microsoft.C
ompute/imageOffer","equals":"osa"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"credativ"
},{"field":"Microsoft.Compute/imageOffer","equals":"Debian"},{"field":"Microsoft.Compute/imageSKU","notLike
":"7*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"Suse"},{"field":"Microsoft.Compute/i
mageOffer","like":"SLES*"},{"field":"Microsoft.Compute/imageSKU","notLike":"11*"}]},{"allOf":[{"field":"Mic
rosoft.Compute/imagePublisher","equals":"Canonical"},{"field":"Microsoft.Compute/imageOffer","equals":"Ubunt
uServer"},{"field":"Microsoft.Compute/imageSKU","notLike":"12*"}]},{"allOf":[{"field":"Microsoft.Compute/ima
gePublisher","equals":"microsoft-dsvm"},{"field":"Microsoft.Compute/imageOffer","in":["linux-data-science-vmubuntu","azureml"]}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloudera"},{"field":"Micr
osoft.Compute/imageOffer","equals":"cloudera-centosos"},{"field":"Microsoft.Compute/imageSKU","notLike":"6*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePub
lisher","equals":"cloudera"},{"field":"Microsoft.Compute/imageOffer","equals":"cloudera-altus-centosos"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"microsoftads"},{"field":"Microsoft.Compute/imageOffer","like":"linux*"}]},{"allOf":[{"anyOf":[{"field":"Microsoft.Compu
te/virtualMachines/osProfile.linuxConfiguration","exists":"true"},{"field":"Microsoft.Compute/virtualMachines/stor
ageProfile.osDisk.osType","like":"Linux*"}]},{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","exists":"fa
lse"},{"field":"Microsoft.Compute/imagePublisher","notIn":["OpenLogic","RedHat","credativ","Suse","Canonical",
"microsoft-dsvm","cloudera","microsoftads"]}]}]}]}]},{"allOf":[{"field":"type","equals":"Microsoft.HybridCompute/machines"},{"field":"Microsoft.Hybri
dCompute/imageOffer","like":"linux*"}]}]},"then":{"effect":"deployIfNotExists","details":{"roleDefinitionIds":["/p
roviders/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab8820f7382dd24c"],"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"installed_applicat
ion_linux","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignments/parameter
Hash","equals":"[base64(concat(''[ChefInSpec]InstalledApplicationLinuxResource1;AttributesYmlContent'',
''='', concat(''packages: ['', replace(parameters(''ApplicationName''), '';'',
'',''),
'']'')))]"},"deployment":{"properties":{"mode":"incremental","parameters":{"vmName":{"value":"[field(''name'')]"},
"location":{"value":"[field(''location'')]"},"type":{"value":"[field(''type'')]"},"configurationName":{"value":"installe
d_application_linux"},"ApplicationName":{"value":"[parameters(''ApplicationName'')]"}},"template":{"$schema":"
https://schema.management.azure.com/schemas/2015-0101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"vmName":{"type":"string"},"location":{
"type":"string"},"type":{"type":"string"},"configurationName":{"type":"string"},"ApplicationName":{"type":"string
"}},"resources":[{"condition":"[equals(toLower(parameters(''type'')),
toLower(''microsoft.hybridcompute/machines''))]","apiVersion":"2018-1120","type":"Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments","name":"[concat(para
meters(''vmName''),
''/Microsoft.GuestConfiguration/'',
parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
me":"[parameters(''configurationName'')]","version":"1.*","configurationParameter":[{"name":"[ChefInSpec]Install
edApplicationLinuxResource1;AttributesYmlContent","value":"[concat(''packages:
['', replace(parameters(''ApplicationName''), '';'', '',''),
'']'')]"}]}}},{"condition":"[equals(toLower(parameters(''type'')),
toLower(''Microsoft.Compute/virtualMachines''))]","apiVersion":"2018-1120","type":"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments","name":"[concat(para
meters(''vmName''),
''/Microsoft.GuestConfiguration/'',
parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na

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Managed Control 1312 - Identifier

Management","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Identification and Authentication control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1312"},"policyRule":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true"},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/4d6a5968-9eef-4c18-8534-376790ab7274","type":"Microsoft.Authorization/policyDefinitions","name":"4d6a5968-9eef-4c18-8534-376790ab7274"},"properties":{"displayName":"Deploy Dependency agent for Linux VMs","policyType":"BuiltIn","mode":"Indexed","description":"Deploy Dependency agent for Linux VMs if the VM Image (OS) is in the list defined and the agent is not installed."},"metadata":{"version":"1.0.1","category":"Monitoring"},"parameters":{"listOfImageIdToInclude":{"type":"Array","metadata":{"displayName":"Optional: List of VM images that have supported Linux OS to add to scope","description":"Example value:
null
Managed Control 1192 - Configuration Change Control | Automated Document / Notification / Prohibition Of Changes

Microsoft implements this Configuration Management control, metadata: ["version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1192"], policyRule: ["if": ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]], ["value": false, "equals": true]], "then": ["effect": "audit"]], id: "/providers/Microsoft.Authorization/policyDefinitions/4ebd97f7-b105-4f50-8daf-c51465991240", "type": "Microsoft.Authorization/policyDefinitions", "name": "4ebd97f7-b105-4f50-8daf-c51465991240", "properties": {"displayName": "Microsoft Managed Control 1192 - Configuration Change Control | Automated Document / Notification / Prohibition Of Changes"},

Managed Control 1139 - Audit Generation

Microsoft implements this Audit and Accountability control, metadata: ["version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1139"], policyRule: ["if": ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]], ["value": false, "equals": true]], "then": ["effect": "audit"]], id: "/providers/Microsoft.Authorization/policyDefinitions/4ed62522-de00-4dda-9810-5205733d2f34", "type": "Microsoft.Authorization/policyDefinitions", "name": "4ed62522-de00-4dda-9810-5205733d2f34", "properties": {"displayName": "A maximum of 3 owners should be designated for your subscription"},

Managed Control 1144 - Media Sanitization | Nondestructive Techniques

Microsoft implements this Media Protection control, metadata: ["version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1144"], policyRule: ["if": ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]], ["value": false, "equals": true]], "then": ["effect": "audit"]], id: "/providers/Microsoft.Authorization/policyDefinitions/4f11b553-d42e-4e3a-89be-32ca364cad4c", "type": "Microsoft.Authorization/policyDefinitions", "name": "4f11b553-d42e-4e3a-89be-32ca364cad4c", "properties": {"displayName": "Microsoft Managed Control 1144 - Media Sanitization | Nondestructive Techniques"},

Managed Control 1182 - Baseline Configuration | Configure Systems, Components, Or Devices For High-Risk Areas

Microsoft implements this Configuration Management control, metadata: ["version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1182"], policyRule: ["if": ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]], ["value": false, "equals": true]], "then": ["effect": "audit"]], id: "/providers/Microsoft.Authorization/policyDefinitions/4f3f4f554-da4b-4786-8d66-d4826aae475", "type": "Microsoft.Authorization/policyDefinitions", "name": "4f3f4f554-da4b-4786-8d66-d4826aae475", "properties": {"displayName": "Microsoft Managed Control 1182 - Baseline Configuration | Configure Systems, Components, Or Devices For High-Risk Areas"},
security contact email address should be provided for your subscription,"policyType":"BuiltIn","mode":"All","description":"Enter an email address to receive notifications when Azure Security Center detects compromised resources","metadata":{"version":"1.0.0","category":"Security Center"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"}},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"policyRule":{"if":{"field":"type","equals":"Microsoft.Resources/subscriptions"},"then":{"effect":parameters(effect),"details":{"type":"Microsoft.Security/securityContacts","existenceCondition":{"field":"Microsoft.Security/securityContacts/email","notEquals":""}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/4f4f78b8-e367-4b10-a341-d9a4ad5cf1c7"},"type":"Microsoft.Authorization/policyDefinitions","name":"4f4f78b8-e367-4b10-a341-d9a4ad5cf1c7"},"properties":{"displayName":"Add a tag to resources","policyType":"BuiltIn","mode":"Indexed","description":"Adds the specified tag and value when any resource missing this tag is created or updated. Existing resources can be remediated by triggering a remediation task. If the tag exists with a different value it will not be changed. Does not modify tags on resource groups."},"metadata":{"version":"1.0.0","category":"Tags"},"parameters":{"tagName":{"type":"String","metadata":{"displayName":"Tag Name","description":"Name of the tag, such as "environment""}},"tagValue":{"type":"String","metadata":{"displayName":"Tag Value","description":"Value of the tag, such as "production""}}}},"policyRule":{"if":{"field":"concat(tags[parameters(tagName)],"exists":false},"then":{"effect":"modify","details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"],"operations":["add"],"value":parameters(tagName),"details":parameters(tagName)}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/4f9dc7db-30c1-420c-b61a-e1d640128d26"},"type":"Microsoft.Authorization/policyDefinitions","name":"4f9dc7db-30c1-420c-b61a-e1d640128d26"},"properties":{"displayName":"[Preview] Vulnerability Assessment should be enabled on Virtual Machines","policyType":"BuiltIn","mode":"All","description":"Monitors vulnerabilities detected by Azure Security Center Vulnerability Assessment on Virtual Machines"},"metadata":{"version":"1.0.0","category":"Security Center","preview":true},"parameters":{"effect":{"type":"String","metadata":{"displayName":"[Preview] Effect","description":"Enable or disable the execution of the policy"}},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"policyRule":{"if":{"field":"type","in":["Microsoft.Compute/virtualMachines","Microsoft.ClassicCompute/virtualMachines"],"then":{"effect":parameters(effect),"details":{"type":"Microsoft.Security/complianceResults","name":"serverVulnerabilityAssessment","existenceCondition":field("Microsoft.Security/complianceResults/resourceStatus","in":["Not Applicable","OffByPolicy","Healthy"]}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/501541f7-f7e7-4cd6-868c-4190f6d3ac99"},"type":"Microsoft.Authorization/policyDefinitions","name":"501541f7-f7e7-4cd6-868c-4190f6d3ac99"},"properties":{"displayName":"Microsoft Managed Control 1485 - Delivery And Removal","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Physical and Environmental Protection
 Managed Control 1646 - Cryptographic Key Establishment And Management | Asymmetric Keys, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control," "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1646"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/subscriptionGroups"]}, {"value": "false", "equals": "true"}]), "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/506814fa-b930-4b10-894e-a45b98c40e1a", "type": "Microsoft.Authorization/policyDefinitions", "name": "506814fa-b930-4b10-894e-a45b98c40e1a"}, {"properties": {"displayName": "Microsoft Managed Control 1566 - System Development Life Cycle", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1566"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/subscriptionGroups"]}, {"value": "false", "equals": "true"}]), "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/50ad3724-e2ac-4716-afcc-d8eabd97adb9", "type": "Microsoft.Authorization/policyDefinitions", "name": "50ad3724-e2ac-4716-afcc-d8eabd97adb9"}, {"properties": {"displayName": "A custom IPsec/IKE policy must be applied to all Azure virtual network gateway connections", "policyType": "BuiltIn", "mode": "All", "description": "This policy ensures that all Azure virtual network gateway connections use a custom Internet Protocol Security(IPsec)/Internet Key Exchange(IKE) policy. Supported algorithms and key strengths - https://aka.ms/AA62kb0", "metadata": {"version": "1.0.0", "category": "Network"}, "parameters": {"effect": {"type": "String"}, "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}, "IPsecEncryption": {"type": "Array", "metadata": {"displayName": "IPsec Encryption", "description": "IPsec Encryption"}}, "IPsecIntegrity": {"type": "Array", "metadata": {"displayName": "IPsec Integrity", "description": "IPsec Integrity"}}, "IKEEncryption": {"type": "Array", "metadata": {"displayName": "IKE Encryption", "description": "IKE Encryption"}}, "IKEIntegrity": {"type": "Array", "metadata": {"displayName": "IKE Integrity", "description": "IKE Integrity"}}, "DHGroup": {"type": "Array", "metadata": {"displayName": "DH Group", "description": "DH Group"}}, "PFSGroup": {"type": "Array", "metadata": {"displayName": "PFS Group", "description": "PFS Group"}}}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Network/connections"}, {"anyOf": [{"field": "Microsoft.Network/connections/ipsecPolicies[*].ipsecEncryption", "notIn": ["parameters(IPsecEncryption)"]}, {"field": "Microsoft.Network/connections/ipsecPolicies[*].ipsecIntegrity", "notIn": ["parameters(IPsecIntegrity)"]}]}], "then": {"effect": "audit"}}}},
Managed Controlled 1248 - Contingency Planning

Microsoft implements this Contingency Planning control.

Managed Controlled 1386 - Information Spillage Response

Microsoft implements this Incident Response control.

Managed Controlled 1352 - Incident Response Policy and Procedures

Microsoft implements this Incident Response control.

Managed Controlled 1642 - Network Disconnect

This policy helps audit any PostgreSQL databases in your environment without Connection throttling enabled. This setting enables temporary connection throttling per IP for too many invalid password login attempts.
Open Source Used In SDWan 20.7.1  8562

failures.

or disable the execution of the policy.

implements this Physical and Environmental Protection control,

implements this Configuration Management control,

implements this Access Control control,

implements this Contingency Planning control,

implements this Contingency Planning control,

Managed Control 1467 - Visitor Access

Managed Control 1183 - Baseline Configuration | Configure Systems, Components, Or Devices For High-Risk Areas

Managed Control 1029 - Information Flow Enforcement | Security Policy Filters

Managed Control 1270 - Alternate Storage Site | Recovery Time / Point Objectives

Managed Control 1040 - Least Privilege | Review Of User
Open Source Used In SDWan 20.7.1 8564

Managed Control 1212 - Configuration Settings | Automated Central Management

Managed Control 1403 - Controlled Maintenance | Automated Maintenance

Microsoft Managed Control 1212 - Configuration Settings | Automated Central Management

Microsoft Managed Control 1403 - Controlled Maintenance | Automated Maintenance

CORS should not allow every resource to access your Web Applications

Microsoft Managed Control 1162 - Continuous Monitoring

Microsoft Managed Control 1054 - Session Termination

Managed Control 1162 - Continuous Monitoring

Managed Control 1054 - Session Termination

Microsoft implements this Security Assessment and Authorization control

Microsoft implements this Access Control control
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1054"},"policyRule ":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true"}],"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/5807e1b4-ba5e-4718-8689-a0ca05a191b2"},"type":"Microsoft.Authorization/policyDefinitions","name":"5807e1b4-ba5e-4718-8689-a0ca05a191b2"},"properties":{"displayName":"Microsoft Managed Control 1584 - Information System Documentation","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{"version":1.0.0,"category":Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1584"},"policyRule ":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true"}],"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/5864522b-f1fd-4979-a9f8-58bee1bf174c"},"type":"Microsoft.Authorization/policyDefinitions","name":"5864522b-f1fd-4979-a9f8-58bee1bf174c"},"properties":{"displayName":"Microsoft Managed Control 1547 - Vulnerability Scanning","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Risk Assessment control","metadata":{"version":1.0.0,"category":Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1547"},"policyRule ":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true"}],"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/58abf9b8-c6d4-4b4b-bfb9-fe98fe295f52"},"type":"Microsoft.Authorization/policyDefinitions","name":"58abf9b8-c6d4-4b4b-bfb9-fe98fe295f52"},"properties":{"displayName":"Microsoft Managed Control 1573 - Acquisition Process","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{"version":1.0.0,"category":Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1573"},"policyRule ":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true"}],"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/58c93053-7b98-4cf0-b99f-1beb985416c2"},"type":"Microsoft.Authorization/policyDefinitions","name":"58c93053-7b98-4cf0-b99f-1beb985416c2"},"properties":{"displayName":[Deprecated]:
Ensure Function app is using the latest version of TLS encryption","policyType":BuiltIn","mode":Indexed","description":"Please use /providers/Microsoft.Authorization/policyDefinitions/f9d614c5-c173-4d56-95a7-b4437057d193 instead. The TLS(Transport Layer Security) protocol secures transmission of data over the internet using standard encryption technology. Encryption should be set with the latest version of TLS. App service allows TLS 1.2 by default, which is the recommended TLS level by industry standards, such as PCI DSS"},"metadata":{"version":1.0.0-deprecated","category":App Service","deprecated":true"},"parameters":{"effect":{"type":String","metadata":{"displayName":[Deprecated]:
Effect"},"description":"Enable or disable the execution of the policy"},"allowedValues":[AuditIfNotExists,Disabled],"defaultValue":AuditIfNotExists"},"policyRule":{"if":
{"allOf":["field":"type","equals":Microsoft.Web/sites"},"field":kind,like:"functionapp"]},"then":{"effect":
[parameters(effect)],"details":{"type":Microsoft.Web/sites/config","name":web,"existenceCondition":field}
Managed Control 1063 - Remote Access

"Microsoft.ManagedControl 1063 - Remote Access | Managed Access Control Points","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":"providers/Microsoft.PolicyInsights/policyMetadata/ACF1063"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}],"then":{"effect":"audit"}},"id":"providers/Microsoft.Authorization/policyDefinitions/593ce201-54b2-4dd0-b34f-c308005d7780"},"properties":{"displayName":"Microsoft Managed Control 1063 - Remote Access | Managed Access Control Points"}

Managed Control 1463 - Monitoring Physical Access

"Microsoft.ManagedControl 1463 - Monitoring Physical Access","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Physical and Environmental Protection control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":"providers/Microsoft.PolicyInsights/policyMetadata/ACF1463"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}],"then":{"effect":"audit"}},"id":"providers/Microsoft.Authorization/policyDefinitions/59721f87-ae25-4db0-a2a4-77cc5b25d495"},"properties":{"displayName":"Microsoft Managed Control 1463 - Monitoring Physical Access"}

Managed Control 1425 - Timely Maintenance

"Microsoft.ManagedControl 1425 - Timely Maintenance","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Maintenance control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":"providers/Microsoft.PolicyInsights/policyMetadata/ACF1425"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}],"then":{"effect":"audit"}},"id":"providers/Microsoft.Authorization/policyDefinitions/5983d99c-f39b-4c32-a3dc-170f19f6941b"},"properties":{"displayName":"Microsoft Managed Control 1425 - Timely Maintenance"}

Managed Control 1512 - Personnel Screening

"Microsoft.ManagedControl 1512 - Personnel Screening","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Personnel Security control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":"providers/Microsoft.PolicyInsights/policyMetadata/ACF1512"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}],"then":{"effect":"audit"}},"id":"providers/Microsoft.Authorization/policyDefinitions/5a8324ad-f599-429b-aaed-f9e68c987a8"},"properties":{"displayName":"Microsoft Managed Control 1512 - Personnel Screening"}

Show audit results from Windows VMs that do not have a minimum password age of 1 day,"policyType":"BuiltIn","mode":"All","description":"This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that do not have a minimum password age of 1 day. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":1.0.0-preview,"category":"Guest"}
Managed Control 1105 - Audit Events

**policyType**: Static, **mode**: Indexed, **description**: Microsoft implements this Audit and Accountability control.

**Microsoft Managed Control 1105 - Audit Events**

**policyRule**:

- **if**: anyOf:
  - allOf:
    - field: type
      equals: Microsoft.Authorization/policyDefinitions
    - field: name
      equals: 5b626abc-26d4-4e22-9de8-3831818526b1
  - allOf:
    - field: type
      equals: Microsoft.Authorization/policyDefinitions
    - field: name
      equals: 5b73f57b-587d-4470-a344-0b9ae805f459

- **then**: effect: audit

**Show audit results from Linux VMs that have the specified applications installed**, **policyType**: BuiltIn, **mode**: All, **description**: This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Linux virtual machines that have the specified applications installed.

For more information on Guest Configuration policies, please visit [https://aka.ms/gcopol](https://aka.ms/gcopol).
Registries should be encrypted with a Customer-Managed Key (CMK). The policy-type: "BuiltIn", mode: "Indexed", description: "Audit Container Registries that do not have encryption enabled with Customer-Managed Keys (CMK). For more information on CMK encryption, please visit: https://aka.ms/acr/CMK.", metadata: {"version": "1.0.0", category: "Container Registry"}, parameters: {"enabled": {"type": "String", description: "Whether to enable the policy or not.", "allowedValues": ["true", "false"], "defaultValue": "true"}, "effect": {"type": "String", description: "The effect of the policy.", "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}}}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.ContainerRegistry/registries"]}, {"not": {"field": "Microsoft.ContainerRegistry/registries/encryption.status", "equals": "enabled"}}]}, "then": {"effect": ["parameters('effect')"]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/5b9159ae-1701-4a6f-9a7a-aa9c8ddd0580", "type": "Microsoft.Authorization/policyDefinitions", "name": "5b9159ae-1701-4a6f-9a7a-aa9c8ddd0580"}, "properties": {"displayName": "Ensure WEB app has "Client Certificates (Incoming client certificates)" set to "On"", "policyType": "BuiltIn", mode: "Indexed", description: "Client certificates allow for the app to request a certificate for incoming requests. Only clients that have a valid certificate will be able to reach the app.", metadata: {"version": "1.0.0", category: "App Service"}, parameters: {"allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "app*"}], "then": {"effect": ["parameters('effect')"]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/5bb220d9-2698-4ee4-8404-b9c30c9df6d09", "type": "Microsoft.Authorization/policyDefinitions", "name": "5bb220d9-2698-4ee4-8404-b9c30c9df6d09"}, "properties": {"displayName": "Deploy prerequisites to audit Windows VMs on which the remote host connection status does not match the specified one", "policyType": "BuiltIn", mode: "Indexed", description: "This policy creates a Guest Configuration assignment to audit Windows virtual machines on which the remote host connection status does not match the specified one. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.", metadata: {"version": "1.1.0-preview", category: "Guest Configuration"}, requiredProviders: ["Microsoft.GuestConfiguration"], preview: true}, parameters: {"allowedValues": ["true", "false"], "defaultValue": "true"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "app*"}], "then": {"effect": ["parameters('effect')"]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/5bb220d9-2698-4ee4-8404-b9c30c9df6d09", "properties": {"displayName": "Remote Host Name", description: "Specifies the Domain Name System (DNS) name or IP address of the remote host machine.", metadata: {"displayType": "String", description: "The TCP port number on the remote host name.", "shouldConnect": "true"}}}},
Should connect to remote host","description":"Must be "True" or "False".
"True" indicates that the virtual machine should be able to establish a connection with the remote host specified, so the machine will be non-compliant if it cannot establish a connection. "False" indicates that the virtual machine should not be able to establish a connection with the remote host specified, so the machine will be non-compliant if it can establish a connection.

```json
"policyRule": {"if": {"anyOf": ["allOf": {
  "field": "type",
  "equals": "Microsoft.Compute/virtualMachines",
  "anyOf": ["allOf": {
    "field": "osProfile.windowsConfiguration",
    "exists": "true",
    "configName": "WindowsRemoteConnection",
    "location": "[value: [field("location")]]",
    "type": "[value: [field("type")]]",
    "configurationName": "WindowsRemoteConnection",
    "host": "[value: [parameters("host")]]",
    "port": "[value: [parameters("port")]]",
    "shouldConnect": "[value: [parameters("shouldConnect")]]"
  }
}
],
"field": "Microsoft.Compute/imageOffer",
"equals": "dsvm-windows",
"allowedValues": ["True", "False"],
"defaultValue": "False"}
}
```

```json
"policyRule": {"if": {"anyOf": ["allOf": {
  "field": "type",
  "equals": "Microsoft.Compute/virtualMachines",
  "anyOf": ["allOf": {
    "field": "osProfile.windowsConfiguration",
    "exists": "true",
    "configName": "WindowsRemoteConnection",
    "location": "[value: [field("location")]]",
    "type": "[value: [field("type")]]",
    "configurationName": "WindowsRemoteConnection",
    "host": "[value: [parameters("host")]]",
    "port": "[value: [parameters("port")]]",
    "shouldConnect": "[value: [parameters("shouldConnect")]]"
  }
}
],
"field": "Microsoft.Compute/imageOffer",
"equals": "dsvm-windows",
"allowedValues": ["True", "False"],
"defaultValue": "False"
}
```
parameters("configurationName"))], "location": [parameters("location")], "properties": {"guestConfiguration": {"name": "[parameters("configurationName")]", "version": "1.*", "configurationParameter": [{"name": "[WindowsRemoteConnection]WindowsRemoteConnection1;host", "value": [parameters("host")]"}, {"name": "[WindowsRemoteConnection]WindowsRemoteConnection1;port", "value": [parameters("port")]"}, {"name": "[WindowsRemoteConnection]WindowsRemoteConnection1;shouldConnect", "value": [parameters("shouldConnect")]
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/5bb36dda-8a78-4df9-affd-4f05a8612a8a", "type": "Microsoft.Authorization/policyDefinitions", "name": "5bb36dda-8a78-4df9-affd-4f05a8612a8a", //properties": [{"displayName": "Microsoft Managed Control 1551 - Vulnerability Scanning | Update Tool Capability", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Risk Assessment control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1551"}], "policyRule": {"if": [{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}], "then": [{"effect": "audit"}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/5bbda922-0172-4095-89e6-5b4a0b03af7", "type": "Microsoft.Authorization/policyDefinitions", "name": "5bbda922-0172-4095-89e6-5b4a0b03af7", //properties": [{"displayName": "Azure Policy for Windows", "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Network Security". For more information on Group Configuration policies, please visit https://aka.ms/gcpol", "metadata": {"version": "1.0.0-preview"}, "category": "Guest Configuration", "preview": true}, "policyRule": [{"if": [{"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines"}, {"anyOf": [{"field": "Microsoft.Compute/imagePublisher", "in": ["esri", "incredibuild", "Microsoft"]}]}]}]}}]}}}}

Managed Control 1551 - Vulnerability Scanning | Update Tool Capability
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implements this System and Information Integrity Compliance, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1671" }, "policyRule": { "if": { "allOf": [ { "field": "type", 
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Managed Control 1116 - Audit Review, Analysis, And Reporting
Managed Control 1208 - Configuration

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Open Source Used in SDWan 20.7.1
8579

The Open Source Used in SDWan 20.7.1 page includes the following information:

- Microsoft Compute image SKU details:
  - 14.04 LTS
  - 16.04 LTS
  - 18.04 LTS

- Microsoft Compute image publisher:
  - Oracle
  - OpenLogic
  - cloudera

- Microsoft Compute image offer:
  - Oracle-Linux
  - CentOS
  - Centos-LVM
  - CentOS-SRIOV

- Deployment details:
  - Type: Microsoft.Compute/virtualMachineScaleSets/extensions
  - Role Definition IDs:
    - /providers/microsoft.authorization/roleDefinitions/92aaf0da-9dab-4d3ce8d16293
    - /providers/microsoft.authorization/roleDefinitions/9980e02c-c2be-4d73-94e8-173b1dc7cf3c

- Policy Definitions:
  - 5ee9e9ed-0b42-41b7-8c9c-3cfb2fbc2069
  - 5f18c885-ade3-48c5-80b1-8f9216019c18

- Policy rule:
  - DisplayName: Microsoft Managed Control 1576 - Acquisition Process | Design / Implementation Information
  - Policy Type: Static
  - Mode: Indexed
  - Description: Microsoft implements this System and Services Acquisition control

- Managed Control 1576 - Acquisition Process
  - Design / Implementation Information
  - For Security Controls
  - Policy Type: Static
  - Mode: Indexed
  - Description: Microsoft implements this System and Services Acquisition control.
  - Metadata:
    - Version: 1.0.0
    - Category: Regulatory Compliance
    - Additional Metadata:
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      - value: false
      - equals: true
      - then: "[effect: "audit"]
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or replace a tag on resources","policyType":"BuiltIn","mode":"Indexed","description":"Adds or replaces the specified tag and value when any resource is created or updated.
Existing resources can be remediated by triggering a remediation task. Does not modify tags on resource
groups.","metadata":{"version":"1.0.0","category":"Tags"},"parameters":{"tagName":{"type":"String","metadata":{"displayName":"Tag Name","description":"Name of the tag, such as "environment""}},"tagValue":{"type":"String","metadata":{"displayName":"Tag Value","description":"Value of the tag, such as "production""}}},"policyRule":{"if":{"field":\[concat('tags[',parameters('tagName'),']')\],"notEquals":\[parameters('tagValue')\]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/5ffd78d9-436d-4b41-a421-5baa819e3008","type":"Microsoft.Authorization/policyDefinitions","name":"5ffd78d9-436d-4b41-a421-5baa819e3008","properties":{"displayName":"Microsoft Managed Control 1663 - Protection Of Information At Rest","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"allOf":\[\{\"field\":\"type\",\"in\":\[\"Microsoft.Resources/subscriptions\","Microsoft.Resources/subscriptions/resourceGroups\]\]\],\"value\":\"false\",\"equals\":\"true\"\}]),\"then\":\{"\"effect\":\"audit\"\}},{\"id\":/providers/Microsoft.Authorization/policyDefinitions/60171210-6dde-40af-a144-bf2670518bfa","type":"Microsoft.Authorization/policyDefinitions","name":"60171210-6dde-40af-a144-bf2670518bfa","properties":{"displayName":\"[Preview]: Show audit results from Windows VMs configurations in "System Audit Policies - Object Access"\",\"policyType":"BuiltIn","mode":"All","description":\"This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Object Access". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":"1.0.0-preview"}}},\"category":"Guest Configuration","preview":true,"policyRule":{"if":\{"\"anyOf\":\[\{\"allOf\":\[\{\"field\":\"type\",\"equals\":\"Microsoft.Compute/virtualMachines\"\},\"anyOf\":\[\{\"field\":\"Microsoft.Compute/imagePublisher\",\"in\":\[\"esri\",\"incredibuild\",\"Microsoft DynamicsAX\",\"MicrosoftSharepoint\",\"MicrosoftVisualStudio\",\"MicrosoftWindowsDesktop\",\"MicrosoftWindowsServerHPCPack\\]\]\],\"value\":\"false\",\"notLike\":\"2008\"\}],[\"allOf\":\[\{\"field\":\"Microsoft.Compute/imagePublisher\",\"equals\":\"MicrosoftWindowsServer\"\}],[\"field\":\"Microsoft.Compute/imageSKU\",\"notLike\":\"2008\"\}],[\"allOf\":\[\{\"field\":\"Microsoft.Compute/imagePublisher\",\"equals\":\"MicrosoftSQLServer\"\}],[\"field\":\"Microsoft.Compute/imageOffer\",\"notLike\":\"SQL2008\"\}],[\"allOf\":\[\{\"field\":\"Microsoft.Compute/imagePublisher\",\"equals\":\"dsvm\"\}],[\"field\":\"Microsoft.Compute/imageOffer\",\"equals\":\"dsvm-windows\"\}],[\"allOf\":\[\{\"field\":\"Microsoft.Compute/imagePublisher\",\"equals\":\"microsoft-ads\"\}],[\"field\":\"Microsoft.Compute/imageOffer\",\"in\":\[\"standard-data-science-vm\",\"windows-data-science-vm\"\}\]],[\"allOf\":\[\{\"field\":\"Microsoft.Compute/imagePublisher\",\"equals\":\"batch\"\}],[\"field\":\"Microsoft.Compute/imageOffer\",\"equals\":\"rendering-windows2016\"\}],[\"allOf\":\[\{\"field\":\"Microsoft.Compute/imagePublisher\",\"equals\":\"center-for-internet-security-
Open Source Used In SDWan

**Windows Server 2016**

- **Microsoft.Compute/imagePublisher**: "center-for-internet-security-inc"
- **Microsoft.Compute/imageOffer**: "ad*
- **Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration**: "exists": "true"
- **Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType**: "like": "Windows*"
- **Microsoft.Compute/imageSKU**: "notLike": "2008*
- **Microsoft.Compute/imageOffer**: "notLike": "SQL2008*"
- **Microsoft.Compute/imageOffer**: "like": "windows*"

**Windows Server 2019**

- **Microsoft.Compute/imagePublisher**: "pivotal"
- **Microsoft.Compute/imageOffer**: "like": "bosh-windows-server*"
- **Microsoft.Compute/imagePublisher**: "equals": "cloud-infrastructure-services"
- **Microsoft.Compute/imageOffer**: "like": "ad*
- **Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration**: "exists": "true"
- **Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType**: "like": "Windows*"

**Windows Server 2016**

- **Microsoft.Compute/imagePublisher**: "center-for-internet-security-inc"
- **Microsoft.Compute/imageOffer**: "like": "cis-windows-server-2016*
- **Microsoft.Compute/imagePublisher**: "equals": "pivotals"
- **Microsoft.Compute/imageOffer**: "like": "bosh-windows-server*"
- **Microsoft.Compute/imagePublisher**: "equals": "cloud-infrastructure-services"
- **Microsoft.Compute/imageOffer**: "like": "ad*
- **Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration**: "exists": "true"
- **Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType**: "like": "Windows*"

**Windows Server 2019**

- **Microsoft.Compute/imagePublisher**: "pivotal"
- **Microsoft.Compute/imageOffer**: "like": "bosh-windows-server*"
- **Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration**: "exists": "true"
- **Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType**: "like": "Windows*"

**Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration**: "exists": "true"

**Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType**: "like": "Windows*"

**Microsoft.Compute/imageSKU**: "notLike": "2008*

**Microsoft.Compute/imageOffer**: "notLike": "SQL2008*"

**Microsoft.Compute/imageOffer**: "like": "windows*"

**Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration**: "exists": "true"

**Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType**: "like": "Windows*"

**Microsoft.Compute/imageSKU**: "notLike": "2008*

**Microsoft.Compute/imageOffer**: "notLike": "SQL2008*"

**Microsoft.Compute/imageOffer**: "like": "windows*"

**Microsoft.Offer**

- **Microsoft.Offer**: "windows*"

**Microsoft.GuestConfiguration/guestConfigurationAssignments**

- **Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus**: "equals": "Compliant"

**Microsoft.Authorization/policyDefinitions**

- **Microsoft.Authorization/policyDefinitions/id**: "/providers/Microsoft.Authorization/policyDefinitions/60ffe3e2-4640-4460-8f22-0f1da058266c"
Configure time zone on Windows machines.\textquotedbl{}policyType\textquotedbl{}: \textquoteleft\texttt{BuiltIn}\textquoteright, \textquoteleft\texttt{mode}\textquoteright: \texttt{Indexed}, \textquoteleft\texttt{description}\textquoteright: This policy creates a Guest Configuration assignment to set specified time zone on Windows virtual machines.\textquoteleft\texttt{metadata}\textquoteright: \{\textquoteleft\texttt{version}\textquoteright: 1.1.0-preview, \texttt{category}\textquoteright: \texttt{Guest Configuration}, \texttt{requiredProviders}\textquoteright: \{\texttt{Microsoft.GuestConfiguration}\}, \texttt{preview}\textquoteright: true\}, \texttt{parameters}\textquoteright: \{\texttt{TimeZone}\: \{\textquoteleft\texttt{type}\textquoteright: \texttt{String}, \textquoteleft\texttt{metadata}\textquoteright: \{\textquoteleft\texttt{displayName}\textquoteright: \texttt{Time zone}, \textquoteleft\texttt{description}\textquoteright: The expected time zone\}, \texttt{allowedValues}\textquoteright: \{\textquoteleft\texttt{UTC-12:00} International Date Line West\}, \textquoteleft\texttt{UTC-11:00} Coordinated Universal Time-11\}, \textquoteleft\texttt{UTC-10:00} Aleutian Islands\}, \textquoteleft\texttt{UTC-09:30} Marquesas Islands\}, \textquoteleft\texttt{UTC-09:00} Alaska\}, \textquoteleft\texttt{UTC-08:00} Coordinated Universal Time-09\}, \textquoteleft\texttt{UTC-08:00} Baja California\}, \textquoteleft\texttt{UTC-08:00} Coordinated Universal Time-08\}, \textquoteleft\texttt{UTC-07:00} Pacific Time (US & Canada)\}, \textquoteleft\texttt{UTC-07:00} Arizona\}, \textquoteleft\texttt{UTC-07:00} Chihuahua, La Paz, Mazatlan\}, \textquoteleft\texttt{UTC-07:00} Mountain Time (US & Canada)\}, \textquoteleft\texttt{UTC-06:00} Central America\}, \textquoteleft\texttt{UTC-06:00} Central Time (US & Canada)\}, \textquoteleft\texttt{UTC-06:00} Easter Island\}, \textquoteleft\texttt{UTC-06:00} Guadalajara, Mexico City, Monterrey\}, \textquoteleft\texttt{UTC-06:00} Saskatchewan\}, \textquoteleft\texttt{UTC-05:00} Bogota, Lima, Quito, Rio Branco\}, \textquoteleft\texttt{UTC-05:00} Chetumal\}, \textquoteleft\texttt{UTC-05:00} Eastern Time (US & Canada)\}, \textquoteleft\texttt{UTC-05:00} Haiti\}, \textquoteleft\texttt{UTC-05:00} Havana\}, \textquoteleft\texttt{UTC-05:00} Indiana (East)\}, \textquoteleft\texttt{UTC-05:00} Turks and Caicos\}, \textquoteleft\texttt{UTC-04:00} Asuncion\}, \textquoteleft\texttt{UTC-04:00} Atlantic Time (Canada)\}, \textquoteleft\texttt{UTC-04:00} Caracas\}, \textquoteleft\texttt{UTC-04:00} Cuiaba\}, \textquoteleft\texttt{UTC-04:00} Georgetown, La Paz, Manaus, San Juan\}, \textquoteleft\texttt{UTC-04:00} Santiago\}, \textquoteleft\texttt{UTC-03:30} Newfoundland\}, \textquoteleft\texttt{UTC-03:00} Araguaina\}, \textquoteleft\texttt{UTC-03:00} Brasilia\}, \textquoteleft\texttt{UTC-03:00} Cayenne, Fortaleza\}, \textquoteleft\texttt{UTC-03:00} City of Buenos Aires\}, \textquoteleft\texttt{UTC-03:00} Greenland\}, \textquoteleft\texttt{UTC-03:00} Montevideo\}, \textquoteleft\texttt{UTC-03:00} Punta Arenas\}, \texttt{Saint Pierre and Miquelon\}, \textquoteleft\texttt{UTC-03:00} Salvador\}, \textquoteleft\texttt{UTC-02:00} Mid-Atlantic - Old\}, \textquoteleft\texttt{UTC-01:00} Azores\}, \textquoteleft\texttt{UTC-01:00} Cabo Verde Is\}, \textquoteleft\texttt{UTC-01:00} Coordinated Universal Time\}, \textquoteleft\texttt{UTC+00:00} Dublin, Edinburgh, Lisbon, London\}, \textquoteleft\texttt{UTC+00:00} Monrovia, Reykjavik\}, \textquoteleft\texttt{UTC+00:00} Sao Tome\}, \textquoteleft\texttt{UTC+01:00} Casablanca\}, \textquoteleft\texttt{UTC+01:00} Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna\}, \textquoteleft\texttt{UTC+01:00} Belgrade, Bratislava, Budapest, Ljubljana, Prague\}, \textquoteleft\texttt{UTC+01:00} Brussels, Copenhagen, Madrid, Paris\}, \textquoteleft\texttt{UTC+01:00} Sarajevo, Skopje, Warsaw, Zagreb\}, \textquoteleft\texttt{UTC+01:00} West Central Africa\}, \textquoteleft\texttt{UTC+02:00} Amman\}, \textquoteleft\texttt{UTC+02:00} Athens, Bucharest\}, \textquoteleft\texttt{UTC+02:00} Beirut\}, \textquoteleft\texttt{UTC+02:00} Cairo\}, \textquoteleft\texttt{UTC+02:00} Chisinau\}, \textquoteleft\texttt{UTC+02:00} Damascus\}, \textquoteleft\texttt{UTC+02:00} Gaza, Hebron\}, \textquoteleft\texttt{UTC+02:00} Harare, Pretoria\}, \textquoteleft\texttt{UTC+02:00} Helsinki, Kyiv\}, \textquoteleft\texttt{UTC+02:00} Riga, Sofia, Tallinn, Vilnius\}, \textquoteleft\texttt{UTC+02:00} Jerusalem\}, \textquoteleft\texttt{UTC+02:00} Kaliningrad\}, \textquoteleft\texttt{UTC+02:00} Khartoum\}, \textquoteleft\texttt{UTC+02:00} Tripoli\}, \textquoteleft\texttt{UTC+02:00} Windhoek\}, \textquoteleft\texttt{UTC+03:00} Baghdad\}, \textquoteleft\texttt{UTC+03:00} Istanbul\}, \textquoteleft\texttt{UTC+03:00} Kuwait, Riyadh\}, \textquoteleft\texttt{UTC+03:00} Minsk\}, \textquoteleft\texttt{UTC+03:00} Moscow\}, \textquoteleft\texttt{UTC+03:00} St. Petersburg\}, \textquoteleft\texttt{UTC+03:00} Nairobi\}, \textquoteleft\texttt{UTC+03:30} Tehran\}, \textquoteleft\texttt{UTC+04:00} Abu Dhabi, Muscat\}, \textquoteleft\texttt{UTC+04:00} Astrakhan, Ulyanovsk\}, \textquoteleft\texttt{UTC+04:00} Baku\}, \textquoteleft\texttt{UTC+04:00} Bishkek, Samara\}, \textquoteleft\texttt{UTC+04:00} Chisinau\}, \textquoteleft\texttt{UTC+04:00} Chisinau\}, \textquoteleft\texttt{UTC+04:00} Dushanbe\}, \textquoteleft\texttt{UTC+04:00} Grozny\}, \textquoteleft\texttt{UTC+04:00} Harare, Pretoria\}, \textquoteleft\texttt{UTC+04:00} Kabul\}, \textquoteleft\texttt{UTC+04:00} Kathmandu\}, \textquoteleft\texttt{UTC+04:00} Muscat\}, \textquoteleft\texttt{UTC+04:00} Nikolaev\}, \textquoteleft\texttt{UTC+04:00} Saint Petersburg\}, \textquoteleft\texttt{UTC+04:00} Tbilisi\}, \textquoteleft\texttt{UTC+04:00} Volgograd\}, \textquoteleft\texttt{UTC+04:00} Yerevan\}, \textquoteleft\texttt{UTC+04:30} Kabul\}, \textquoteleft\texttt{UTC+04:30} Kathmandu\}, \textquoteleft\texttt{UTC+04:30} Astana\}, \textquoteleft\texttt{UTC+04:30} Kabul\}, \textquoteleft\texttt{UTC+04:30} Ashgabat, Tashkent\}, \textquoteleft\texttt{UTC+05:00} Ekaterinburg\}, \textquoteleft\texttt{UTC+05:00} Islamabad, Karachi\}, \textquoteleft\texttt{UTC+05:00} Qyzylorda\}, \textquoteleft\texttt{UTC+05:30} Chennai, Kolkata, Mumbai, New Delhi\}, \textquoteleft\texttt{UTC+05:30} Sri Jayawardenepura\}, \textquoteleft\texttt{UTC+05:30} Kathmandu\}, \textquoteleft\texttt{UTC+06:00} Astana\}, \textquoteleft\texttt{UTC+06:00} Doha\}, \textquoteleft\texttt{UTC+06:00} Omsk\}, \textquoteleft\texttt{UTC+06:30} Yangon (Rangoon)\}, \textquoteleft\texttt{UTC+07:00} Bangkok, Hanoi, Jakarta\}, \textquoteleft\texttt{UTC+07:00} Bishkek, Grozny\}, \textquoteleft\texttt{UTC+07:00} Kabul\}, \textquoteleft\texttt{UTC+07:00} Kathmandu\}, \textquoteleft\texttt{UTC+07:00} Novosibirsk\}, \textquoteleft\texttt{UTC+07:00} Tomsk\}, \textquoteleft\texttt{UTC+08:00} Beijing, Chongqing, Hong Kong, Urumqi\}, \textquoteleft\texttt{UTC+08:00} Irkutsk\}, \textquoteleft\texttt{UTC+08:00} Kuala Lumpur\}.
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Fabric clusters should have the ClusterProtectionLevel property set to EncryptAndSign, "policyType": "Builtin", "mode": "Indexed", "description": "Fabric provides three levels of protection (None, Sign and EncryptAndSign) for node-to-node communication using a primary cluster certificate. Set the protection level to ensure that all node-to-node messages are encrypted and digitally signed. "metadata": {"version": "1.1.0", "category": "Service Fabric"}, "parameters": {
  "effect": {
    "type": "String",
    "metadata": {
      "displayName": "Effect",
      "description": "The effect determines what happens when the policy rule is evaluated to match the allowedValues.["Audit", "Deny", "Disabled"], defaultValue:"Audit"},
    "policyRule": {
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        "allOf": [{
          "field": "type",
          "equals": "Microsoft.ServiceFabric/clusters",
          "anyOf": [{
            "field": "Microsoft.ServiceFabric/clusters/fabricSettings[*].name",
            "notEquals": "Security",
            "field": "Microsoft.ServiceFabric/clusters/fabricSettings[*].parameters[*].name",
            "notEquals": "ClusterProtectionLevel",
            "field": "Microsoft.ServiceFabric/clusters/fabricSettings[*].parameters[*].value",
            "notEquals": "EncryptAndSign"
          }]
        }],
        "then": {
          "effect": ["parameters["effect"]"]
        }
      },
      "id": "/providers/Microsoft.Authorization/policyDefinitions/617c02be-7f02-4efd-8836-3180d47b6c68",
      "type": "Microsoft.Authorization/policyDefinitions",
      "name": "617c02be-7f02-4efd-8836-3180d47b6c68",
      "properties": {"displayName": "Microsoft Managed Control 1415 - Nonlocal Maintenance",
      "policyType": "Static",
      "mode": "Indexed",
      "description": "Microsoft implements this Maintenance control",
      "metadata": {
        "version": "1.0.0",
        "category": "Regulatory Compliance",
        "additionalMetadataId": "/providers/Microsoft.PolicyInsights/extensions/ResourceManagementPolicyExtensions/PolicyCompliance",
        "policyRule": {
          "if": {"allOf": [{
            "field": "type",
            "value": "Microsoft.Resources/subscriptions",
            "equals": "Microsoft.Resources/subscriptions/resourceGroups"}, {
            "value": false,
            "equals": "true"
          }]
        },
        "then": {
          "effect": ["audit"]
        }
      },
      "id": "/providers/Microsoft.Authorization/policyDefinitions/6182bfa7-0f2a-43f5-834a-a2ddf31c13c7",
      "type": "Microsoft.Authorization/policyDefinitions",
      "name": "6182bfa7-0f2a-43f5-834a-a2ddf31c13c7",
      "properties": {"displayName": "Microsoft Managed Control 1110 - Audit Storage Capacity",
      "policyType": "Static",
      "mode": "Indexed",
      "description": "Microsoft implements this Audit and Accountability control",
      "metadata": {
        "version": "1.0.0",
        "category": "Regulatory Compliance",
        "additionalMetadataId": "/providers/Microsoft.PolicyInsights/extensions/ResourceManagementPolicyExtensions/PolicyCompliance",
        "policyRule": {
          "if": {"allOf": [{
            "field": "type",
            "value": "Microsoft.Resources/subscriptions",
            "equals": "Microsoft.Resources/subscriptions/resourceGroups"}, {
            "value": false,
            "equals": "true"
          }]
        },
        "then": {
          "effect": ["audit"]
        }
      },
      "id": "/providers/Microsoft.Authorization/policyDefinitions/6182bfa7-0f2a-43f5-834a-
      a2ddf31c13c7",
      "type": "Microsoft.Authorization/policyDefinitions",
      "name": "6182bfa7-0f2a-43f5-834a-a2ddf31c13c7",
      "properties": {"displayName": "Microsoft Managed Control 1415 - Nonlocal Maintenance",
      "policyType": "Static",
      "mode": "Indexed",
      "description": "Microsoft implements this Maintenance control",
      "metadata": {
        "version": "1.0.0",
        "category": "Regulatory Compliance",
        "additionalMetadataId": "/providers/Microsoft.PolicyInsights/extensions/ResourceManagementPolicyExtensions/PolicyCompliance",
        "policyRule": {
          "if": {"allOf": [{
            "field": "type",
            "value": "Microsoft.Resources/subscriptions",
            "equals": "Microsoft.Resources/subscriptions/resourceGroups"}, {
            "value": false,
            "equals": "true"
          }]
        },
        "then": {
          "effect": ["audit"]
        }
      },
      "id": "/providers/Microsoft.Authorization/policyDefinitions/6182bfa7-0f2a-43f5-834a-
      a2ddf31c13c7",
      "type": "Microsoft.Authorization/policyDefinitions",
      "name": "6182bfa7-0f2a-43f5-834a-a2ddf31c13c7",
      "properties": {"displayName": "Microsoft Managed Control 1110 - Audit Storage Capacity"},
      "policyType": "Static",
      "mode": "Indexed",
      "description": "Microsoft implements this Audit and Accountability control",
      "metadata": {
        "version": "1.0.0",
        "category": "Regulatory Compliance",
        "additionalMetadataId": "/providers/Microsoft.PolicyInsights/extensions/ResourceManagementPolicyExtensions/PolicyCompliance",
        "policyRule": {
          "if": {"allOf": [{
            "field": "type",
            "value": "Microsoft.Resources/subscriptions",
            "equals": "Microsoft.Resources/subscriptions/resourceGroups"}, {
            "value": false,
            "equals": "true"
          }]
        },
        "then": {
          "effect": ["audit"]
        }
      },
      "id": "/providers/Microsoft.Authorization/policyDefinitions/6182bfa7-0f2a-43f5-834a-a2dd
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ion/policyDefinitions/61a1dd98-b259-4840-abd5-fbba7ee0da83","type":"Microsoft.Authorization/policyDefinitions","name":"61a1dd98-b259-4840-abd5-fbba7ee0da83"},{"properties":{"displayName":"Microsoft Managed Control 1153 - System Interconnections","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Security Assessment and Authorization control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1153"},"policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/61cf3125-142c-4754-8a16-41ab4d529635","type":"Microsoft.Authorization/policyDefinitions","name":"61cf3125-142c-4754-8a16-41ab4d529635"},{"properties":{"displayName":"[Preview]: Show audit results from Windows VMs configurations in "Security Options - System objects"","policyType":"BuiltIn","mode":"All","description":"This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - System objects". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":"1.0.0-preview","category":"Guest Configuration"},"policyRule":{"if":{"anyOf": [{"allOf": [{"field":"type","equals":"Microsoft.Compute/virtualMachines"}, {"anyOf": [{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]}, {"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"}, {"field":"Microsoft.Compute/imageSKU","notLike":"2008*"}]}, {"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftSQLServer"}, {"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]}, {"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"microsoft-dsvm"}, {"field":"Microsoft.Compute/imageOffer","equals":"microsoft-dsvm-windows"}]}, {"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"microsoft-ads"}, {"field":"Microsoft.Compute/imageOffer","in":["standard-data-science-vm","windows-data-science-vm"]}], {"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"batch"}, {"field":"Microsoft.Compute/imageOffer","equals":"rendering-windows2016"}]}, {"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"center-for-internet-security-inc"}, {"field":"Microsoft.Compute/imageOffer","like":"cis-windows-server-201*"}]}, {"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"pivotal"}, {"field":"Microsoft.Compute/imageOffer","like":"bosh-windows-server-*"}]}], {"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructure-services"}, {"field":"Microsoft.Compute/imageOffer","like":"ad*"}]}], {"allOf": [{"field":"Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration","exists":"true"}, {"field":"Microsoft.Compute/virtualMachines/osProfile.windowsProfile","exists":"true"}, {"field":"Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType","like":"Windows*"}], {"anyOf": [{"field":"Microsoft.Compute/imageSKU","exists":"false"}, {"field":"Microsoft.Compute/imageSKU","notLike":"2008*", "field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]}, {"allOf": [{"field":"type","equals":"Microsoft.HybridCompute/machines"}, {"field":"Microsoft.HybridCompute/imageOffer","like":"windows*"}]}, {"then": {"effect": "auditIfNotExists", "details": {"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "AzureBaseline_SecurityOptionsSystemobject", "existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus", "equals": "Compliant"}}}}}], "id":"/providers/Microsoft.Authorization/policyDefinitions/620e58b5-ac75-49b4-993f-a9df0459636","type":"Microsoft.Authorization/policyDefinitions","name":"620e58b5-ac75-49b4-993f-a9df0459636"}
Managed Control 1682 - Malicious Code Protection | Nonsignature-Based Detection

Managed Control 1660 - Session Authenticity

Managed Control 1002 - Account Management

Managed Control 1498 - Rules Of Behavior

Managed Control 1177 - Baseline Configuration | Reviews And Updates

Managed Control 1185 - Configuration Change
Deploy prerequisites to audit Windows VMs configurations in "Security Options - Devices". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Devices". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
ecurityOptionsDevices","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignme
nts/parameterHash","equals":"[base64(concat(''Devices:
Allowed to format and eject removable media;ExpectedValue'', ''='',
parameters(''DevicesAllowedToFormatAndEjectRemovableMedia'')))]"},"deployment":{"properties":{"mode":"incr
emental","parameters":{"vmName":{"value":"[field(''name'')]"},"location":{"value":"[field(''location'')]"},"type":{"v
alue":"[field(''type'')]"},"configurationName":{"value":"AzureBaseline_SecurityOptionsDevices"},"DevicesAllowe
dToFormatAndEjectRemovableMedia":{"value":"[parameters(''DevicesAllowedToFormatAndEjectRemovableMedi
a'')]"}},"template":{"$schema":"https://schema.management.azure.com/schemas/2015-0101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"vmName":{"type":"string"},"location":{
"type":"string"},"type":{"type":"string"},"configurationName":{"type":"string"},"DevicesAllowedToFormatAndEje
ctRemovableMedia":{"type":"string"}},"resources":[{"condition":"[equals(toLower(parameters(''type'')),
toLower(''microsoft.hybridcompute/machines''))]","apiVersion":"2018-1120","type":"Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments","name":"[concat(para
meters(''vmName''),
''/Microsoft.GuestConfiguration/'',
parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
me":"[parameters(''configurationName'')]","version":"1.*","configurationParameter":[{"name":"Devices:
Allowed to format and eject removable
media;ExpectedValue","value":"[parameters(''DevicesAllowedToFormatAndEjectRemovableMedia'')]"}]}}},{"con
dition":"[equals(toLower(parameters(''type'')),
toLower(''Microsoft.Compute/virtualMachines''))]","apiVersion":"2018-1120","type":"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments","name":"[concat(para
meters(''vmName''),
''/Microsoft.GuestConfiguration/'',
parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
me":"[parameters(''configurationName'')]","version":"1.*","configurationParameter":[{"name":"Devices:
Allowed to format and eject removable
media;ExpectedValue","value":"[parameters(''DevicesAllowedToFormatAndEjectRemovableMedia'')]"}]}}},{"con
dition":"[equals(toLower(parameters(''type'')),
Name'')]","location":"[parameters(''location'')]"},{"condition":"[equals(toLower(parameters(''type'')),
toLower(''Microsoft.Compute/virtualMachines''))]","apiVersion":"2015-05-01preview","name":"[concat(parameters(''vmName''),
''/AzurePolicyforWindows'')]","type":"Microsoft.Compute/virtualMachines/extensions","location":"[parameters(''loc
ation'')]","properties":{"publisher":"Microsoft.GuestConfiguration","type":"ConfigurationforWindows","typeHandle
rVersion":"1.1","autoUpgradeMinorVersion":true,"settings":{},"protectedSettings":{}},"dependsOn":["[concat(''Mi
crosoft.Compute/virtualMachines/'',parameters(''vmName''),''/providers/Microsoft.GuestConfiguration/guestConfigu
rationAssignments/'',parameters(''configurationName''))]"]}]}}}}}}},"id":"/providers/Microsoft.Authorization/polic
yDefinitions/6481cc21-ed6e-4480-99ddea7c5222e897","type":"Microsoft.Authorization/policyDefinitions","name":"6481cc21-ed6e-4480-99ddea7c5222e897"},{"properties":{"displayName":"Microsoft
Managed Control 1441 - Media Sanitization | Equipment
Testing","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Media Protection control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1441"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat

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Audit missing blob encryption for storage accounts, "policyType": "BuiltIn", "mode": "All", "description": "This policy no longer necessary because storage blob encryption is enabled by default and cannot be turned off.", "metadata": {"version": "1.0.0-deprecated"}, "category": "Security Center", "deprecated": true, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}, "policyRule": {"if": {"allOf": ["type", "equals": "Microsoft.Storage/storageAccounts"], "not": {"field": "Microsoft.Storage/storageAccounts/enableBlobEncryption", "equals": "True"}}, "then": {"effect": ["parameters('effect')"]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/655cb504-bcee-4362-402e6aa38759", "properties": {"displayName": "Microsoft Managed Control 1261 - Contingency Plan Testing", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1261"}, "policyRule": {"if": {"allOf": ["type", "equals": "microsoft.Web/sites"], "anyOf": ["kind", "equals": "functionapp"], "kind": "functionapp,linux"}, "then": {"effect": "[parameters('effect')]"}, "details": {"type": "Microsoft.Security/complianceResults", "name": "ConfigureIPRestrictions", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/664346d9-be92-43fb-a219-d595ceb76a90", "properties": {"displayName": "Microsoft Managed Control 1558 - Vulnerability Scanning | Correlate Scanning Information", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Risk Assessment control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1558"}, "policyRule": {"if": {"allOf": ["type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]], "value": "false", "equals": "true"}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/65592b16-4367-42c5-a26e-d371be450e17", "properties": {"displayName": "Microsoft Managed Control 1444 - Media Use | Prohibit Use Without Owner", "policyType": "Static", "mode": "Indexed", "description": "Microsoft
implements this Media Protection control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1444"},
"policyRule": {
"if": {
"allOf": [
{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},
{"value": false, "equals": true}],
"then": {
"effect": "audit"}
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/66f143df-5e0-4bd-b554-135f0f39e44e",
"type": "Microsoft.Authorization/policyDefinitions", "name": "66f143df-5e0-4bd-b554-135f0f39e44e"},

"properties": {
"displayName": "Microsoft Managed Control 1319 - Authenticator Management",
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control",
"metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1319"},
"policyRule": {
"if": {
"allOf": [
{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},
{"value": false, "equals": true}],
"then": {
"effect": "audit"}
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/66f7ae57-5560-4fc-85c-659f204e7a42",
"type": "Microsoft.Authorization/policyDefinitions", "name": "66f7ae57-5560-4fc-85c-659f204e7a42"},

"properties": {
"displayName": "Microsoft Managed Control 1628 - Boundary Protection | External Telecommunications Services",
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control",
"metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1628"},
"policyRule": {
"if": {
"allOf": [
{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},
{"value": false, "equals": true}],
"then": {
"effect": "audit"}
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/67de62b4-a737-4781-8861-3baed3c35069",
"type": "Microsoft.Authorization/policyDefinitions", "name": "67de62b4-a737-4781-8861-3baed3c35069"},

"properties": {
"displayName": "Microsoft Managed Control 1377 - Incident Response Assistance | Coordination With External Providers",
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control",
"metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1377"},
"policyRule": {
"if": {
"allOf": [
{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},
{"value": false, "equals": true}],
"then": {
"effect": "audit"}
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/6843bd1-e14b-4031-9edba4afa94a67",
"type": "Microsoft.Authorization/policyDefinitions", "name": "6843bd1-e14b-4031-9edba4afa94a67"},

"properties": {
"displayName": "[Preview]
Deploy prerequisites to audit Windows VMs on which the Log Analytics agent is not connected as expected", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines on which the Log Analytics agent is not connected to the specified workspaces. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol",
"metadata": {
"version": "1.1.0-preview", "category": "Guest Configuration", "requiredProviders": ["Microsoft.GuestConfiguration"],
"preview": true,
"parameters": {
"WorkspaceId": {
"type": "String", "metadata": {
"displayName": "[Preview]
Connected workspace IDs", "description": "A semicolon-separated list of the workspace IDs that the Log Analytics agent should be connected to

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Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1727"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":"false","equals":"true"}],"then":{"effect":"audit"}},"id":/providers/Microsoft.Authorization/policyDefinitions/697175a7-9715-4e89-b98b-c6f605888fa3","type":"Microsoft.Authorization/policyDefinitions","name":697175a7-9715-4e89-b98b-c6f605888fa3"},"properties":{"displayName":"Microsoft Managed Control 1652 - Mobile Code","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1652"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":"false","equals":"true"}],"then":{"effect":"audit"}},"id":/providers/Microsoft.Authorization/policyDefinitions/6998e84a-2d29-4e10-8962-76754d4f772d","type":"Microsoft.Authorization/policyDefinitions","name":6998e84a-2d29-4e10-8962-76754d4f772d"},"properties":{"displayName":"[Preview]: Deploy Log Analytics agent to Windows Azure Arc machines","policyType":"BuiltIn","mode":"Indexed","description":"This policy deploys the Log Analytics agent to Windows Azure Arc machines if the agent isn't installed."},"metadata":{"version":1.0.1-preview,"category":"Monitoring","preview":true,"parameters":{"logAnalytics":{"type":"String","metadata":{"displayName":"[Preview]: Log Analytics workspace","description":"Specify the Log Analytics workspace the agent should be connected to. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment's principal ID."},"strongType":"omsWorkspace","assignPermissions":true}}},"policyRule":{"if":{"allOf":["Microsoft.HybridCompute/machines"],"contains":false,"like":false},"then":{"effect":"deployIfNotExists","details":{"type":"Microsoft.HybridCompute/machines/extensions","roleDefinitionIds":[/providers/Microsoft.Authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3-d43ce8d16293]},{"existenceCondition":{"allOf":[{"field":"Microsoft.HybridCompute/machines/extensions/type","equals":"MicrosoftMonitoringAgent"},{"field":"Microsoft.HybridCompute/machines/extensions/publisher","equals":Microsoft.EnterpriseCloud.Monitoring"}],"condition":"Succeeded"},"deployment":{"properties":{"mode":"incremental","template":{"$schema":http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#","contentVersion":1.0.0.0,"parameters":{"vmName":{"type":"string"},"location":{"type":"string"},"logAnalytics":{"type":"string"},"variables":{"vmExtensionName":MMAExtension,"vmExtensionPublisher":Microsoft.EnterpriseCloud.Monitoring,"vmExtensionType":MicrosoftMonitoringAgent"},"resources":{"vmName":vmName,","variables":vmExtensionName"},"type":Microsoft.HybridCompute/machines/extensions","location":parameters(location),"apiVersion":2019-12-12,"properties":{"publisher":variables(vmExtensionPublisher),"type":variables(vmExtensionType),"settings":{"workspaceId":reference(parameters(logAnalytics)),"2015-03-20).customerId","stopOnMultipleConnections":true,"protectedSettings":workspaceKey,listKeys(parameters(logAnalytics)),"2015-03-20).primarySharedKey"}],"outputs":{"policy":"string","value":"

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Deploy prerequisites to audit Windows VMs on which Windows Defender Exploit Guard is not enabled", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines on which Windows Defender Exploit Guard is not enabled. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy
in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol. 

The `allowedValues` parameter has been deprecated. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Setting this value to "Compliant" will make these machines compliant."

```
variants:
  - displayName: "Guest Configuration" metadata:
    - name: "displayName"
    - value: "Guest Configuration"
  - displayName: "Required Providers" metadata:
    - name: "displayName"
    - value: "Required Providers"
```

```
"parameters": 
  "NotAvailableMachineState": 
    "type": "String",
    "metadata": 
      "displayName": "Not Available Machine State",
      "description": "Windows Defender Exploit Guard is only available starting with Windows 10/Windows Server with update 1709. Setting this value to "Non-Compliant" will make machines with older versions on which Windows Defender Exploit Guard is not available (such as Windows Server 2012 R2) non-compliant.

Setting this value to "Compliant" will make these machines compliant."

```
"allowedValues": ["Compliant", "Non-Compliant"],
```

```
"policyRule": { "if": { "anyOf": [ 
  { "allOf": [ 
    { "field": "Microsoft.Compute/virtualMachines" }, 
    { "anyOf": [ 
      { "field": "Microsoft.DynamicsAX" }, 
      { "field": "Microsoft.WindowsDesktop" }, 
      { "field": "Microsoft.WindowsServerHPCPack" } 
    ] } 
  ] }, 
  { "allOf": [ 
    { "field": "Microsoft.SqlServer" }, 
    { "field": "Microsoft.Database" } 
  ] }, 
  { "allOf": [ 
    { "field": "Microsoft.AzureSql" }, 
    { "field": "Microsoft.AzureDatabase" } 
  ] } 
] } 
```
toLower("microsoft.hybridcompute/machines"), "apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", "name": "[concat(parameters(''vmName''), \\
"\"Microsoft.GuestConfiguration/\\nparameters("configurationName")\"], "location": "[parameters("location")], "properties": \\
["guestConfiguration": "[\"name\": "\"parameters("configurationName")\", "version": "1.2", "configurationParameter": "[\"name\": "\"WindowsDefenderExploitGuard\"WindowsDefenderExploitGuard1;NotAvailableMachineState\", "value": "[parameters("NotAvailableMachineState")]]\"]\"], \\
"condition": "[equals(toLower(parameters("type")), \\
toLower("Microsoft.HybridCompute/virtualMachines"))], "apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/virtualMachines/providers/guestConfigurationAssignments", "name": "[concat(parameters(''vmName''), \\
"\"Microsoft.GuestConfiguration/\\nparameters("configurationName")\"], "location": "[parameters("location")], "properties": \\
["guestConfiguration": "[\"name\": "\"parameters("configurationName")\", "version": "1.2", "configurationParameter": "[\"name\": "\"WindowsDefenderExploitGuard\"WindowsDefenderExploitGuard1;NotAvailableMachineState\", "value": "[parameters("NotAvailableMachineState")]]\"]\"], \\
"condition": "[equals(toLower(parameters("type")), \\
"identity": "{\"type\": "SystemAssigned"}, "name": "[parameters("vmName")]", "location": "[parameters("location")]", "condition": \\
[equals(toLower(parameters("type"))), \\
toLower("Microsoft.HybridCompute/virtualMachines")), "apiVersion": \\
"2015-05-01-preview", "name": "[concat(parameters(''vmName''), \\
/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/\\nparameters("configurationName")\"]\]))], "id": \\
/providers/Microsoft.Authorization/policyDefinitions/6a7a2bcf-f9be-4e35-9734-49657a70f1f1\", "type": "Microsoft.Authorization/policyDefinitions", "name": \\
"6a7a2bcf-f9be-4e35-9734-49657a70f1f1\", "properties": [\"displayName\": "[Deprecated]: \\
Audit IP restrictions configuration for a Web Application", \\
"policyType": "BuiltIn", \\
"mode": "All", \\
"description": "IP Restrictions allow you to define a list of IP addresses that are allowed to access your app. Use of IP Restrictions protects a web application from common attacks.", \\
"metadata": {\"version\": "1.0.0-deprecated", \\
"category": "Security Center", \\
"deprecated": true}, parameters: [\"effect": {\"type\": "String", \\
"metadata": {\"displayName\": "[Deprecated]: \\
Effect", \\
"description": "Enable or disable the execution of the policy"}, \\
"allowedValues": [\"AuditIfNotExist\", \\
\"Disabled\"]}, \\
"policyRule": {\"if\": \\
[\"allof": [\"field\": "type", \\
\"equals\": "microsoft.Web/sites"], \\
\"anyof": [\"field\": "kind", \\
\"equals\": "app"], \\
\"field\": "kind", \\
\"equals\": "WebApp"], \\
\"field\": "kind", \\
\"equals\": "app,linux", \\
\"field\": "kind", \\
\"equals\": "app,linux,container"], \\
\"then": [\"[\"parameters\("effect")\"], \\
\"details": [\"type\": "Microsoft.Security/complianceResults", \\
\"name": "ConfigureIPRestrictions", \\
\"existenceCondition": [\"field\": "Microsoft.Security/complianceResults/resourceStatus", \\
\"in": [\"OffByPolicy", \\
\"Healthy\"]], \\
\"id": \\
/providers/Microsoft.Authorization/policyDefinitions/6a8450e2-6c61-43b4-be65-62e3a197bffe\", \\
\"type": "Microsoft.Authorization/policyDefinitions", "name": \\
"6a8450e2-6c61-43b4-be65-62e3a197bffe\", \\
\"properties": {\"displayName\": "Microsoft Managed Control 1211 - Configuration Settings", \\
\"policyType": "Static", \\
\"mode": "Indexed", \\
\"description": "Microsoft implements this Configuration Management control", \\
\"metadata": {\"version\": "1.0.0", \\
\"category": "Regulatory Compliance", \\
\"additionalMetadataId": \\
/providers/Microsoft.PolicyInsights/policyMetadata/ACF1211\"}, \\
\"policyRule"
Ensure WEB app is using the latest version of TLS encryption. Please use /providers/Microsoft.Authorization/policyDefinitions/f0e6e85b-9b9f-4a4b-b67b-f730d42f1b0b instead. The TLS (Transport Layer Security) protocol secures transmission of data over the internet using standard encryption technology. Encryption should be set with the latest version of TLS. App service allows TLS 1.2 by default, which is the recommended TLS level by industry standards, such as PCI DSS.

Microsoft Managed Control 1653 - Mobile Code

Microsoft implements this System and Communications Protection control.

Deprecated accounts should be removed from your subscription.

Deploy Diagnostic Settings for Service Bus to Event Hub
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or updated.

"metadata": {"version": "2.0.0", "category": "Monitoring"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}}, "allowedValues": ["DeployIfNotExists", "Disabled"], "defaultValue": "DeployIfNotExists"}, "profileName": {"type": "String", "metadata": {"displayName": "Profile name", "description": "The diagnostic settings profile name"}, "defaultValue": "setbypolicy_eventHub"}, "eventHubRuleId": {"type": "String", "metadata": {"displayName": "Event Hub Authorization Rule Id"}, "description": "The Event Hub authorization rule for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. e.g. /subscriptions/{subscription Id}/resourceGroups/{resource group}/providers/Microsoft.EventHub/namespaces/{Event Hub namespace}/authorizationrules/{authorization rule}", "strongType": "Microsoft.EventHub/Namespaces/AuthorizationRules", "assignPermissions": true}, "eventHubLocation": {"type": "String", "metadata": {"displayName": "Event Hub Location", "description": "The location the Event Hub resides in. Only Service Bus in this location will be linked to this Event Hub."}, "defaultValue": ""}, "metricsEnabled": {"type": "String", "metadata": {"displayName": "Enable metrics", "description": "Whether to enable metrics stream to the Event Hub"}, "allowedValues": ["True", "False"], "defaultValue": "False"}, "logsEnabled": {"type": "String", "metadata": {"displayName": "Enable logs", "description": "Whether to enable logs stream to the Event Hub"}, "allowedValues": ["True", "False"], "defaultValue": "True"}

"policyRule": {"if": {"allOf": ["type": "Microsoft.ServiceBus/namespaces"], "anyOf": ["value": {"parameters\[eventHubLocation\]"}, "equals": ""], "details": {"type": "Microsoft.Insights/diagnosticSettings", "name": {"parameters\[profileName\]"}, "existenceCondition": {"allOf": ["Microsoft.Insights/diagnosticSettings/logs.enabled", "equals": {"parameters\[logsEnabled\]"}, "field": "Microsoft.Insights/diagnosticSettings/metrics.enabled", "equals": {"parameters\[metricsEnabled\]"}]}, "roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"], "deployment": {"properties": {"mode": "incremental", "template": "{"schema": "http://schema.management.az...2015-01-01/deploymentTemplate.json#","contentVersion": "1.0.0.0","parameters": {"resourceName": {"type": "string"}, "location": {"type": "string"}, "eventHubRuleId": {"type": "string"}, "metricsEnabled": {"type": "string"}, "logsEnabled": {"type": "string"}, "profileName": {"type": "string"}, "variables": {}, "resources": {"type": "Microsoft.ServiceBus/namespaces/providers/diagnosticSettings", "apiVersion": "2017-05-01-preview", "name": {"concat(parameters\[resourceName\], ","), "Microsoft.Insights\[", parameters\[profileName\]]"}, "location": {"parameters\[location\]"}, "dependsOn": [], "properties": {"eventHubAuthorizationRuleId": {"parameters\[eventHubRuleId\]"}, "metrics": {"category": "AllMetrics", "enabled": {"parameters\[metricsEnabled\]"}, "retentionPolicy": {"enabled": false, "days": 0}, "logs": {"category": "OperationalLogs", "enabled": {"parameters\[logsEnabled\]"}}}, "outputs": {}, "parameters": {"location": {"value": {"field\[location\]"}}}, "resourceName": {"value": {"field\[name\]"}, "eventHubRuleId": {"value": {"parameters\[eventHubRuleId\]"}, "metricsEnabled": {"value": {"parameters\[metricsEnabled\]"}, "logsEnabled": {"value": {"parameters\[logsEnabled\]"}}}, "profileName": {"value": {"parameters\[profileName\]"}}}}}, "id": "providers/Microsoft.Authorization/policyDefinitions/6b51af03-9277-49a9-a3f8-1c69c9ff7403","type": "Microsoft.Authorization/policyDefinitions", "name": "6b51af03-9277-49a9-a3f8-1c69c9ff7403"}}


Managed Control 1031 - Separation Of Duties, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1031" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.LabServices", "Microsoft.LabServices/subscriptions"], "value": false, "equals": true}], "then": [{"effect": "audit"}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/6b93a801-fe25-4574-a60d-cb22acfaae00" }, "properties": {"displayName": "Not allowed resource types", "policyType": "BuiltIn", "mode": "All", "description": "This policy enables you to specify the resource types that your organization cannot deploy.", "metadata": {"version": "1.0.0", "category": "General"}, "parameters": {"listOfResourceTypesNotAllowed": {"type": "Array", "metadata": {"description": "The list of resource types that cannot be deployed.", "displayName": "Not allowed resource types"}}, "strongType": "resourceTypes" }, "policyRule": {"if": {"field": "type", "in": parameters("listOfResourceTypesNotAllowed")}, "then": {"effect": "Deny"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/6c112d4e-5bc7-47ae-a041-ea2d9dcd749" }, "properties": {"displayName": "Microsoft Managed Control 1338 - Authenticator Management | Automated Support For Password Strength Determination", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1338" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.LabServices", "Microsoft.LabServices/subscriptions"], "value": false, "equals": true}], "then": [{"effect": "audit"}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/6c59a207-6aed-41dc-83a2-e1ff66e4a4db" }, "properties": {"displayName": "Microsoft Managed Control 1304 - Identification And Authentication (Org. Users) | Local Access To Non-Privileged Accounts", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1304" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.LabServices", "Microsoft.LabServices/subscriptions"], "value": false, "equals": true}], "then": [{"effect": "audit"}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/6ca71be3-16cb-4d39-8b50-7f8fd5e2f11b" }, "properties": {"displayName": "Microsoft Managed Control 1437 - Media Transport | Cryptographic Protection", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Media Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1437" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.LabServices", "Microsoft.LabServices/subscriptions"], "value": false, "equals": true}], "then": [{"effect": "audit"}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/6d1eb6ed-bf13-4046-b993-b9e2ae0f76c" }, "properties": {"displayName": "Microsoft Managed Control 1438 - Media Transport | Consumer Protection", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Media Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1438" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.LabServices", "Microsoft.LabServices/subscriptions"], "value": false, "equals": true}], "then": [{"effect": "audit"}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/6d1eb6ed-bf13-4046-b993-b9e2ae0f76c" }, "properties": {"displayName": "Microsoft Managed Control 1439 - Media Transport | Media Encryption", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Media Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1439" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.LabServices", "Microsoft.LabServices/subscriptions"], "value": false, "equals": true}], "then": [{"effect": "audit"}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/6d1eb6ed-bf13-4046-b993-b9e2ae0f76c" }, "properties": {"displayName": "Microsoft
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Managed Control 1651 - Mobile Code

Managed Control 1586 - External Information System Services

Security Center’s auto provisioning of the Log Analytics agent on your subscriptions with default workspace.

Email notification for high severity alerts should be enabled.
Managed Control 1536 - Risk Assessment Policy And Procedures

Microsoft implements this Risk Assessment control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1536"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}}, "then": {"effect": "audit"}}

Managed Control 1530 - Third-Party Personnel Security

Microsoft implements this Personnel Security control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1530"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}}, "then": {"effect": "audit"}}

Managed Control 1460 - Access Control For Output Devices

Microsoft implements this Physical and Environmental Protection control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1460"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}}, "then": {"effect": "audit"}}

Managed Control 1320 - Authenticator Management

Microsoft implements this Identification and Authentication control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1320"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}}, "then": {"effect": "audit"}}

Microsoft Open Source Used In SDWan 20.7.1  8604
Managed Control 1141 - Audit Generation | Changes By Authorized Individuals

Microsoft

that "Python version" is the latest, if used as a part of the Web app. "policyType": "BuiltIn", "mode": "Indexed", "description": "Periodically, newer versions are released for Python software either due to security flaws or to include additional functionality. Using the latest Python version for web apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.", "metadata": {"version": "1.0.0", "category": "App Service"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": [{"AuditIfNotExists", "Disabled"}], "defaultValue": "AuditIfNotExists"}, "WindowsPythonLatestVersion": {"type": "String", "metadata": {"displayName": "Windows Latest Python version", "description": "Latest supported Python version for App Services"}, "defaultValue": "3.6"}, "LinuxPythonLatestVersion": {"type": "String", "metadata": {"displayName": "Linux Latest Python version", "description": "Latest supported Python version for App Services"}, "defaultValue": "3.8"}), "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "app*"}]}, "then": {"effect": {"parameters(effect)"}, "details": {"type": "Microsoft.Web/sites/config", "name": "web", "existenceCondition": {"anyOf": [{"allOf": [{"field": "Microsoft.Web/sites/config/web.linuxFxVersion", "notContains": "PYTHON"}, {"field": "Microsoft.Web/sites/config/web.pythonVersion", "equals": ":"}], "allOf": [{"field": "Microsoft.Web/sites/config/web.linuxFxVersion", "equals": "[concat('PYTHON|", parameters('LinuxPythonLatestVersion')""])}, {"field": "Microsoft.Web/sites/config/web.pythonVersion", "equals": ":"}], "allOf": [{"field": "Microsoft.Web/sites/config/web.linuxFxVersion", "equals": ""}], {"field": "Microsoft.Web/sites/config/web.pythonVersion", "equals": ""}], "parameters([WindowsPythonLatestVersion])"}], {"id": "providers/Microsoft.Authorization/policyDefinitions/7008174a-fd10-4ef0-817e-fc820a951d73", "type": "Microsoft.Authorization/policyDefinitions", "name": "7008174a-fd10-4ef0-817e-fc820a951d73"}, {"properties": {"displayName": "[Preview]: Deploy prerequisites to audit Windows VMs configurations in "Windows Components"", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Windows Components". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": {"version": "1.1.0-preview", "category": "Guest Configuration", "requiredProviders": [{"Microsoft.GuestConfiguration", "preview": true}], "parameters": [{"SendFileSamplesWhenFurtherAnalysisIsRequired", "metadata": {"displayName": "[Preview] Send file samples when further analysis is required", "description": "Specifies whether and how Windows Defender will submit samples of suspected malware to Microsoft for further analysis when opt-in for MAPS telemetry is set."}, "defaultValue": "1"}, {"AllowIndexingOfEncryptedFiles", "metadata": {"displayName": "[Preview] Allow indexing of encrypted files", "description": "Specifies whether encrypted items are allowed to be indexed."}, "defaultValue": "0"}, {"AllowTelemetry", "metadata": {"displayName": "[Preview] Allow Telemetry", "description": "Specifies configuration of the amount of diagnostic and usage data reported to Microsoft. The data is transmitted securely and sensitive data is not sent."}, "defaultValue": "2"}, {"AllowUnencryptedTraffic", "metadata": {"displayName": "[Preview] Allow Unencrypted Traffic"}, "defaultValue": "true"}], {"SendFileSamplesWhenFurtherAnalysisIsRequired": true}, {"AllowIndexingOfEncryptedFiles": 1}, {"AllowTelemetry": 0}, {"AllowUnencryptedTraffic": true}])"}, {"parameters([WindowsPythonLatestVersion])"}]}}}},
Allow unencrypted traffic","description":"Specifies whether the Windows Remote Management (WinRM) service sends and receives unencrypted messages over the network.","defaultValue":"0"},"AlwaysInstallWithElevatedPrivileges":{"type":"String","metadata":{"displayName":"[Preview]: Always install with elevated privileges","description":"Specifies whether Windows Installer should use system permissions when it installs any program on the system.","defaultValue":"0"},"AlwaysPromptForPasswordUponConnection":{"type":"String","metadata":{"displayName":"[Preview]: Always prompt for password upon connection","description":"Specifies whether Terminal Services/Remote Desktop Connection always prompts the client computer for a password upon connection.","defaultValue":"1"},"ApplicationSpecifyTheMaximumLogFileSizeKB":{"type":"String","metadata":{"displayName":"[Preview]: Application: Specify the maximum log file size (KB)","description":"Specifies the maximum size for the Application event log in kilobytes.","defaultValue":"32768"},"AutomaticallySendMemoryDumpsForOSgeneratedErrorReports":{"type":"String","metadata":{"displayName":"
[Preview]: Automatically send memory dumps for OS-generated error reports","description":"Specifies if memory dumps in support of OS-generated error reports can be sent to Microsoft automatically.","defaultValue":"1"},"ConfigureDefaultConsent":{"type":"String","metadata":{"displayName":"
[Preview]: Configure Default consent","description":"Specifies setting of the default consent handling for error reports sent to Microsoft.","defaultValue":"4"},"ConfigureWindowsSmartScreen":{"type":"String","metadata":{"displayName":"
[Preview]: Configure Windows SmartScreen","description":"Specifies how to manage the behavior of Windows SmartScreen. Windows SmartScreen helps keep PCs safer by warning users before running unrecognized programs downloaded from the Internet. Some information is sent to Microsoft about files and programs run on PCs with this feature enabled.","defaultValue":"1"},"DisallowDigestAuthentication":{"type":"String","metadata":{"displayName":"
[Preview]: Disallow Digest authentication","description":"Specifies whether the Windows Remote Management (WinRM) client will not use Digest authentication.","defaultValue":"0"},"DisallowWinRMFromStoringRunAsCredentials":{"type":"String","metadata":{"displayName":"
[Preview]: Disallow WinRM from storing RunAs credentials","description":"Specifies whether the Windows Remote Management (WinRM) service will not allow RunAs credentials to be stored for any plug-ins.","defaultValue":"1"},"DoNotAllowPasswordsToBeSaved":{"type":"String","metadata":{"displayName":"
[Preview]: Do not allow passwords to be saved","description":"Specifies whether to prevent Remote Desktop Services - Terminal Services clients from saving passwords on a computer.","defaultValue":"1"},"SecuritySpecifyTheMaximumLogFileSizeKB":{"type":"String","metadata":{"displayName":"
[Preview]: Security: Specify the maximum log file size (KB)","description":"Specifies
the maximum size for the Security event log in kilobytes.

Set client connection encryption level

Set the default behavior for AutoRun

Setup Specify the maximum log file size (KB)

System Specify the maximum log file size (KB)

Turn off Data Execution Prevention for Explorer

Specify the interval to check for definition updates

Specify the time value is represented as the number of hours between update checks.

if:

anyOf:

allOf:

Microsoft.Computer/virtualMachines

Microsoft.Sharepoint

Microsoft.WindowsServer

Microsoft.DynamicsAX

Microsoft.SqlServer

microsoft-dsvm

microsoft-ads

standard-data-science-vm

windows-data-science-vm

Microsoft.Computer/imagePublisher

Microsoft.Computer/imageOffer

Microsoft.SqlServer

Microsoft.WindowsServer

rendering-windows2016

cis-windows-server-201*

bosh-windows-server*

cloud-infrastructure-
null
AlwaysPromptForPasswordUponConnection": "value": parameters("AlwaysPromptForPasswordUponConnection")\}, "ApplicationSpecifyTheMaximumLogFileSizeKB": {"value": parameters("ApplicationSpecifyTheMaximumLogFileSizeKB")\}, "AutomaticallySendMemoryDumpsForOSgeneratedErrorReports": {"value": parameters("AutomaticallySendMemoryDumpsForOSgeneratedErrorReports")\}, "ConfigureDefaultConsent": {"value": parameters("ConfigureDefaultConsent")\}, "ConfigureWindowsSmartScreen": {"value": parameters("ConfigureWindowsSmartScreen")\}, "DisallowDigestAuthentication": {"value": parameters("DisallowDigestAuthentication")\}, "DisallowWinRMFromStoringRunAsCredentials": {"value": parameters("DisallowWinRMFromStoringRunAsCredentials")\}, "DoNotAllowPasswordsToBeSaved": {"value": parameters("DoNotAllowPasswordsToBeSaved")\}, "SecuritySpecifyTheMaximumLogFileSizeKB": {"value": parameters("SecuritySpecifyTheMaximumLogFileSizeKB")\}, "SetClientConnectionEncryptionLevel": {"value": parameters("SetClientConnectionEncryptionLevel")\}, "SetDefaultBehaviorForAutoRun": {"value": parameters("SetDefaultBehaviorForAutoRun")\}, "SetupSpecifyTheMaximumLogFileSizeKB": {"value": parameters("SetupSpecifyTheMaximumLogFileSizeKB")\}, "SystemSpecifyTheMaximumLogFileSizeKB": {"value": parameters("SystemSpecifyTheMaximumLogFileSizeKB")\}, "TurnOffDataExecutionPreventionForExplorer": {"value": parameters("TurnOffDataExecutionPreventionForExplorer")\}, "SpecifyTheIntervalToCheckForDefinitionUpdates": {"value": parameters("SpecifyTheIntervalToCheckForDefinitionUpdates")\}\}, "template": {"$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"vmName": {"type": "string"}, "location": {"type": "string"}, "configurationName": {"type": "string"}, "SendFileSamplesWhenFurtherAnalysisIsRequired": {"type": "string"}, "AllowIndexingOfEncryptedFiles": {"type": "string"}, "AllowTelemetry": {"type": "string"}, "AllowUnencryptedTraffic": {"type": "string"}, "AlwaysInstallWithElevatedPrivileges": {"type": "string"}, "AlwaysPromptForPasswordUponConnection": {"type": "string"}, "ApplicationSpecifyTheMaximumLogFileSizeKB": {"type": "string"}, "AutomaticallySendMemoryDumpsForOSgeneratedErrorReports": {"type": "string"}, "ConfigureDefaultConsent": {"type": "string"}, "ConfigureWindowsSmartScreen": {"type": "string"}, "DisallowDigestAuthentication": {"type": "string"}, "DisallowWinRMFromStoringRunAsCredentials": {"type": "string"}, "DoNotAllowPasswordsToBeSaved": {"type": "string"}, "SecuritySpecifyTheMaximumLogFileSizeKB": {"type": "string"}, "SetClientConnectionEncryptionLevel": {"type": "string"}, "SetDefaultBehaviorForAutoRun": {"type": "string"}, "SetupSpecifyTheMaximumLogFileSizeKB": {"type": "string"}, "SystemSpecifyTheMaximumLogFileSizeKB": {"type": "string"}, "TurnOffDataExecutionPreventionForExplorer": {"type": "string"}, "SpecifyTheIntervalToCheckForDefinitionUpdates": {"type": "string"}\}, "resources": [{"condition": equals(toLower(parameters("type")), toLower("microsoft.hybridcompute/machines")), "apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", "name": concat(parameters("vmName"), "/Microsoft.GuestConfiguration/", parameters("configurationName")), "location": parameters("location"), "properties": {"guestConfiguration": {"name": parameters("configurationName"), "version": "1.*", "configurationParameter": {"name": "Send file samples when further analysis is required;ExpectedValue", "value": parameters("SendFileSamplesWhenFurtherAnalysisIsRequired")\}, "name": "Allow indexing of encrypted files;ExpectedValue", "value": parameters("AllowIndexingOfEncryptedFiles")\}, "name": "Allow Telemetry;ExpectedValue", "value": parameters("AllowTelemetry")\}, "name": "Allow unencrypted traffic;ExpectedValue", "value": parameters("AllowUnencryptedTraffic")\}, {"name": "Always install with elevated privileges;ExpectedValue", "value": parameters("AlwaysInstallWithElevatedPrivileges")\}, {"name": "Always prompt for password upon connection;ExpectedValue", "value": parameters("AlwaysPromptForPasswordUponConnection")\}, {"name": "ApplicationSpecifyTheMaximumLogFileSizeKB", "value": parameters("ApplicationSpecifyTheMaximumLogFileSizeKB")\}, {"name": "AutomaticallySendMemoryDumpsForOSgeneratedErrorReports", "value": parameters("AutomaticallySendMemoryDumpsForOSgeneratedErrorReports")\}, {"name": "ConfigureDefaultConsent", "value": parameters("ConfigureDefaultConsent")\}, {"name": "ConfigureWindowsSmartScreen", "value": parameters("ConfigureWindowsSmartScreen")\}, {"name": "DisallowDigestAuthentication", "value": parameters("DisallowDigestAuthentication")\}, {"name": "DisallowWinRMFromStoringRunAsCredentials", "value": parameters("DisallowWinRMFromStoringRunAsCredentials")\}, {"name": "DoNotAllowPasswordsToBeSaved", "value": parameters("DoNotAllowPasswordsToBeSaved")\}, {"name": "SecuritySpecifyTheMaximumLogFileSizeKB", "value": parameters("SecuritySpecifyTheMaximumLogFileSizeKB")\}, {"name": "SetClientConnectionEncryptionLevel", "value": parameters("SetClientConnectionEncryptionLevel")\}, {"name": "SetDefaultBehaviorForAutoRun", "value": parameters("SetDefaultBehaviorForAutoRun")\}, {"name": "SetupSpecifyTheMaximumLogFileSizeKB", "value": parameters("SetupSpecifyTheMaximumLogFileSizeKB")\}, {"name": "SystemSpecifyTheMaximumLogFileSizeKB", "value": parameters("SystemSpecifyTheMaximumLogFileSizeKB")\}, {"name": "TurnOffDataExecutionPreventionForExplorer", "value": parameters("TurnOffDataExecutionPreventionForExplorer")\}, {"name": "SpecifyTheIntervalToCheckForDefinitionUpdates", "value": parameters("SpecifyTheIntervalToCheckForDefinitionUpdates")\}}}}
Open Source Used In SDWan 20.7.1

- Send memory dumps for OS-generated error reports
- Default consent
- Configure SmartScreen
- Disallow authentication
- Do not allow passwords to be saved
- Specify the maximum log file size (KB)
- Set client connection encryption level
- Turn off Data Execution Prevention for Explorer
- Specify the interval to check for definition updates
- Always install with elevated privileges
- Always prompt for password upon connection
- Allow indexing of encrypted files
- Allow Telemetry
- Allow unencrypted traffic
- Always install with elevated privileges
- Application Specify the Maximum Log File Size (KB)
- Configure
- Automatically send memory dumps for OS-generated error reports
- Configure Default Consent
- Configure Windows SmartScreen
- Disallow Digest Authentication
- Disallow WinRM from storing RunAs credentials
- Do not allow passwords to be saved
- Security: Specify the maximum log file size (KB)
- Set client connection encryption level
- Setup: Specify the maximum log file size (KB)
- System: Specify the maximum log file size (KB)
- Turn off Data Execution Prevention for Explorer
- Specify the interval to check for definition updates
- Always install with elevated privileges
- Always prompt for password upon connection
- Allow indexing of encrypted files
- Allow Telemetry
- Allow unencrypted traffic
- Always install with elevated privileges
- Always prompt for password upon connection
Specify the maximum log file size (KB); Expected Value; 

Automatically send memory dumps for OS-generated error reports; Expected Value; 

Configure default consent; Expected Value; 

Configure Windows SmartScreen; Expected Value; 

Disallow Digest authentication; Expected Value; 

Disallow WinRM from storing RunAs credentials; Expected Value; 

Do not allow passwords to be saved; Expected Value; 

Specify the maximum log file size (KB); Expected Value; 

Set client connection encryption level; Expected Value; 

Set the default behavior for AutoRun; Expected Value; 

Specify the maximum log file size (KB); Expected Value; 

System: Specify the maximum log file size (KB); Expected Value; 

Specify the interval to check for definition updates; Expected Value; 

Set on Data Execution Prevention for Explorer; Expected Value; 

Turn off Data Execution Prevention for Explorer; Expected Value; 

Management Control 1254 - Contingency Plan | Resume All Missions / Business Functions, "policyType": "Static", "mode": "Indexed", "description": "Microsoft Open Source Used In SDWan 20.7.1 8612"
implements this Contingency Planning control", "metadata": {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1509",
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
}, {
"value": "false",
"equals": "true"
}]
}, 
"then": {
"effect": "audit"
}
}, 
"id": "/providers/Microsoft.Authorization/policyDefinitions/704e136a-4fe0-427c-b829-cd699575f52d",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "704e136a-4fe0-427c-b829-cd699575f52d"}, 
"properties": {
"displayName": "[Preview]: Show audit results from Windows VMs configurations in "System Audit Policies - System"",
"policyType": "BuiltIn",
"mode": "All",
"description": "This policy should only be used along with its corresponding deploy policy in an initiative.
This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - System". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol",
"metadata": {
"version": "1.0.0-preview",
"category": "Guest Configuration",
"preview": true
},
"policyRule": {
"if": {
"anyOf": [{
"allOf": [{
"field": "Microsoft.Compute/virtualMachines",
"anyOf": [{
"field": "Microsoft.Compute/imagePublisher",
}, {
"allOf": [{
"field": "Microsoft.Compute/imagePublisher",
"equals": "MicrosoftWindowsServer"
}, 
"field": "Microsoft.Compute/imageSKU",
"notLike": "2008*"
}]
}, {
"allOf": [{
"field": "Microsoft.Compute/imagePublisher",
"equals": "MicrosoftSQLServer"
}, 
"field": "Microsoft.Compute/imageOffer",
"notLike": "SQL2008*"
}]
}, {
"allOf": [{
"field": "Microsoft.Compute/imagePublisher",
"equals": "microsoft-dsvm"
}, 
"field": "Microsoft.Compute/imageOffer",
"equals": "dsvm-windows"
}]
}, 
"allOf": [{
"field": "Microsoft.Compute/imagePublisher",
"equals": "microsoft-ads"
}, 
"field": "Microsoft.Compute/imageOffer",
"in": ["standard-data-science-vm", "windows-data-science-vm"
]}
}, 
"allOf": [{
"field": "Microsoft.Compute/imagePublisher",
"batch": 1,
"field": "Microsoft.Compute/imageOffer",
"equals": "rendering-windows2016"
}]
}, 
"allOf": [{
"field": "Microsoft.Compute/imagePublisher",
"equals": "center-for-internet-security"
}, 
"field": "Microsoft.Compute/imageOffer",
"like": "cis-windows-server-201*"
}]
}, 
"allOf": [{
"field": "Microsoft.Compute/imagePublisher",
"equals": "pivotal"
}, 
"field": "Microsoft.Compute/imageOffer",
"like": "bosh-windows-server*
}]
}, 
"allOf": [{
"field": "Microsoft.Compute/imagePublisher",
"equals": "cloud-infrastructure-services"
}, 
"field": "Microsoft.Compute/imageOffer",
"like": "ad*"
}]
}, 
"allOf": [{
"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration",
"exists": true
}, 
"field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType",
"like": "Windows*"
}, 
"anyOf": [{
"field": "Microsoft.Compute/imageSKU",
"notLike": "2008*"
}, 
"field": "Microsoft.Compute/imageOffer",
"notLike": "SQL2008*"
}]]
}
}, 
"allOf": [{
"field": "type",
"equals": "Microsoft.HybridCompute/imageOffer",
"like": "windows*"
}]
}, 
"then": {
"effect": "auditIfNotExists",
"details": {
"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments",
"name": "AzureBaseline_SystemAuditPoliciesSystem",
"existenceCondition": {
"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus",
"equals": "Compliant"
}
}, 
"id": "/providers/Microsoft.Authorization/policyDefinitions/7066131b-61a6-4917-a7e4-72e89830a6a6",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "7066131b-61a6-4917-a7e4-72e89830a6a6",
"properties": {
"displayName": "Microsoft Managed Control 1509 - Position Risk Designation",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft implements this Personnel Security control",
"metadata": {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1509",
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
}, {
"value": "false",
"equals": "true"
}]
}, 
"then": {
"effect": "audit"
}
}, 
"id": "/providers/Microsoft.Authorization/policyDefinitions/704e136a-4fe0-427c-b829-cd699575f52d"}
Managed Control 1541 - Risk Assessment, policyType: "Static", mode: "Indexed", description: "Microsoft implements this Risk Assessment control", metadata: {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1541"}, policyRule: {
  "if": {
    "allOf": [{
      "field": "type",
      "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
      "value": "false",
      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
  }
}, id: "/providers/Microsoft.Authorization/policyDefinitions/70792197-9bfc-4813-905a-bd33993e327f"},

Managed Control 1691 - Information System Monitoring | Automated Tools For Real-Time Analysis, policyType: "Static", mode: "Indexed", description: "Microsoft implements this System and Information Integrity control", metadata: {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1691"}, policyRule: {
  "if": {
    "allOf": [{
      "field": "type",
      "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
      "value": "false",
      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
  }
}, id: "/providers/Microsoft.Authorization/policyDefinitions/7d933b2e3434"},

Managed Control 1481 - Temperature And Humidity Controls, policyType: "Static", mode: "Indexed", description: "Microsoft implements this Physical and Environmental Protection control", metadata: {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1481"}, policyRule: {
  "if": {
    "allOf": [{
      "field": "type",
      "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
      "value": "false",
      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
  }
}, id: "/providers/Microsoft.Authorization/policyDefinitions/71475fb4-49bd-450b-a1a5-f63894e24725"},

Managed Control 1129 - Time Stamps | Synchronization With Authoritative Time Source, policyType: "Static", mode: "Indexed", description: "Microsoft implements this Audit and Accountability control", metadata: {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1129"}, policyRule: {
  "if": {
    "allOf": [{
      "field": "type",
      "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
      "value": "false",
      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
  }
}, id: "/providers/Microsoft.Authorization/policyDefinitions/71bb965d-4047-4623-afd4-b8189a58df5d"},

Managed Control 1395 - System Maintenance Policy And Procedures, policyType: "Static", mode: "Indexed", description: "Microsoft implements this Maintenance control", metadata: {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1395"}, policyRule: {
  "if": {
    "allOf": [{
      "field": "type",
      "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
      "value": "false",
      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
  }
}, id: "/providers/Microsoft.Authorization/policyDefinitions/7207a023-a517-41c5-9df2-09d4c645a05"}
Show audit results from Windows VMs configurations in "Administrative Templates - Network"." "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Administrative Templates - Network". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol." "metadata": {"version": "1.0.0-preview", "category": "Guest Configuration", "preview": true, "policyRule": "if": {"anyOf": [{"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines"}, {"anyOf": [{"field": "Microsoft.Compute/imagePublisher", "in": ["esri", "incredibuild", "Microsoft DynamicsAX", "MicrosoftSharepoint", "MicrosoftVisualStudio", "MicrosoftWindowsDesktop", "MicrosoftWindowsServerHPCPack"]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}]}}]}}}
Ensure that "PHP version" is the latest, if used as a part of the WEB app. Periodically, newer versions are released for PHP software either due to security flaws or to include additional functionality. Using the latest PHP version for web apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version. Enable or disable the execution of the policy.

Deploy prerequisites to audit Windows VMs that allow re-use of the previous 24 passwords. This policy creates a Guest Configuration assignment to audit Windows virtual machines that allow re-use of the previous 24 passwords. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
server"}],{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructure-services"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}],["allOf":[{"field":"Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration","exists":false},{"allOf":[{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]]}]],{"allOf":[{"field":"type","equals":"Microsoft.HybridCompute/machines"},{"field":"Microsoft.HybridCompute/imageOffer","like":"windows*"}]]},then:{"effect":"deployIfNotExists","details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd24c"],"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"EnforcePasswordHistory"},"deployment":{"properties":{"mode":"incremental","parameters":{"vmName":{"value":"[field('name')]"},"location":{"value":"[field('location')]"},"configurationName":{"value":"[field('configurationName')]"},"name":"[parameters('vmName')]","version":"1.*"},"template":{"$schema":"https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"vmName":{"type":"string"},"location":{"type":"string"},"configurationName":{"type":"string"},"resources":[{"condition":"[equalstoLower(parameters('type'))]
  toLower(microsoft.hybridcompute/machines))"},"apiVersion":"2018-11-20"},"type":"Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments","name":"[concat(parameters('vmName'))]","location":"[parameters('location')]"},"properties":{"guestConfiguration":{"name":"[parameters('configurationName')]"},"version":"1.*"},"apiVersion":"2018-11-20"},"type":"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments","name":"[concat(parameters('vmName'))]","location":"[parameters('location')]"},"properties":{"name":"[parameters('configurationName')]"},"version":"1.*"},"apiVersion":"2015-05-01-preview"},"name":"[concat(parameters('vmName'))],"type":"Microsoft.HybridCompute/machines/extensions","location":parameters('location')},"properties":{"publisher":"Microsoft.GuestConfiguration","type":"ConfigurationforWindows","typeHandlerVersion":"1.1","autoUpgradeMinorVersion":true,"settings":{},"protectedSettings":{},"dependsOn":["[concat(Microsoft.Compute/virtualMachines/parameters('vmName'))]/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/parameters('configurationName')"]],"id":"/providers/Microsoft.Authorization/policyDefinitions/726671ac-c4de-4908-8c7d-6043ae62e5b6"},"type":"Microsoft.Authorization/policyDefinitions","name":"726671ac-c4de-4908-8c7d-6043ae62e5b6"},"properties":{"displayName":"Add a tag to resource groups","policyType":"BuiltIn","mode":"All","description":"Add a tag to resource groups when any resource group missing this tag is created or updated. Existing resource groups can be remediated by triggering a remediation task. If the tag exists with a different value it will not be changed."},"metadata":{"version":1.0.0,"category":"Tags"},"parameters":{"tagName":{"type":"String"},"metadata":{"displayName":"Tag Name","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String"},"metadata":{"displayName":"Tag Open Source Used In SDWan 20.7.1 8618"}}
Value","description":"Value of the tag, such as "production"" ] }, "policyRule": { "if": { "allOf": [ { "field": "type", "equals": "Microsoft.Resources/subscriptions/resourceGroups" }, { "field": [ concat( "tags", parameters( "tagName" ) ) ], "exists": false } ] }, "then": { "effect": "modify", "details": { "roleDefinitionIds": [ "/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c" ], "operations": [ { "operation": "add", "field": [ concat( "tags", parameters( "tagName" ) ) ], "value": [ parameters( "tagValue" ) ] } ] } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/726aca4c-86e9-4b04-b0c5-073027359532", "type": "Microsoft.Authorization/policyDefinitions", "name": "726aca4c-86e9-4b04-b0c5-073027359532", "properties": { "displayName": "Microsoft Managed Control 1524 - Personnel Transfer", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": [ "providers/Microsoft.PolicyInsights/policyMetadata/ACF1524" ] }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": false, "equals": true } ] }, "then": { "effect": "audit" } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/72f1cb4e-2439-4fe8-88ea-b8671ce3c268", "type": "Microsoft.Authorization/policyDefinitions", "name": "72f1cb4e-2439-4fe8-88ea-b8671ce3c268", "properties": { "displayName": "Microsoft Managed Control 1393 - Information Spillage Response | Exposure To Unauthorized Personnel", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": [ "providers/Microsoft.PolicyInsights/policyMetadata/ACF1393" ] }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": false, "equals": true } ] }, "then": { "effect": "audit" } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/731856d8-1598-4b75-92de-7d46235747c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "731856d8-1598-4b75-92de-7d46235747c0", "properties": { "displayName": "Microsoft Managed Control 1101 - Audit And Accountability Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": [ "providers/Microsoft.PolicyInsights/policyMetadata/ACF1101" ] }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": false, "equals": true } ] }, "then": { "effect": "audit" } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/733ba9e3-9e7c-440a-a7aa-6196a90a2870", "type": "Microsoft.Authorization/policyDefinitions", "name": "733ba9e3-9e7c-440a-a7aa-6196a90a2870", "properties": { "displayName": "Deploy Workflow Automation for Azure Security Center" },
recommendations"],"policyType":"BuiltIn","mode":"All","description":"Enable automation of Azure Security Center recommendations. This policy deploys a workflow automation with your conditions and triggers on the assigned scope. To deploy this policy on newly created subscriptions, open the Compliance tab, select the relevant non-compliant assignment and create a remediation task.","metadata":{"version":"1.0.0","category":"Security Center"},"parameters":{"automationName":{"type":"String","metadata":{"displayName":"Automation name","description":"This is the automation name."}},"resourceGroupName":{"type":"String","metadata":{"displayName":"Resource group name","description":"The resource group name where the workflow automation is created. If you enter a name for a resource group that doesn’t exist, it’ll be created in the subscription."}},"resourceGroupLocation":{"type":"String","metadata":{"displayName":"Resource group location","description":"The location where the resource group and the workflow automation are created."}},"recommendationIds":{},"recommendationSeverities":{},"recommendationStates":{},"logicAppResourceId":null,"logicAppTrigger":null,"policyRule":null"}
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variables("totalRuleCombinationsForOneRecommendationName"))\], "operator": "Contains", ["propertyPath": "properties.metadata.severity", "propertyType": "string", "expectedValue": [variables("recommendationSeverities")\mod(div(copyIndex("ruleSets"),
variables("totalRuleCombinationsForOneRecommendationSeverity"))\], "operator": "Equals", ["propertyPath": "properties.status.code", "propertyType": "string", "expectedValue": [variables("stateMap")\parameters("recommendationStates")\mod(div(copyIndex("ruleSets"),
variables("totalRuleCombinationsForOneRecommendationState"))\], "operator": "Contains"]}, ["actions": [{"actionType": "LogicApp", "logicAppResourceId": [parameters("logicAppResourceId")], "uri": [listCallbackUrl(concat(parameters("logicAppResourceId"), "/triggers/", variables("triggerMap")\parameters("logicAppTrigger"))), "2016-06-01", "value"]}]}, ["parameters": {"automationName": [parameters("automationName")], "resourceGroupName": [parameters("resourceGroupName")], "resourceGroupLocation": [variables("resourceGroupLocation")], "recommendationNames": [variables("recommendationNames")], "recommendationSeverities": [variables("recommendationSeverities")], "recommendationStates": [variables("recommendationStates")], "logicAppResourceId": [variables("logicAppResourceId")], "logicAppTrigger": [variables("logicAppTrigger")]}], ["id": /providers/Microsoft.Authorization/policyDefinitions/73d6ab6c-2475-4850-afd6-43795f3492ef, "type": "Microsoft.Authorization/policyDefinitions", "name": "73d6ab6c-2475-4850-afd6-43795f3492ef", ["properties": {"displayName": "Microsoft Managed Control 1581 - Information System Documentation", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1581"}, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, "then": {"effect": "audit"}}}, "id": /providers/Microsoft.Authorization/policyDefinitions/742b549b-7a25-465f-b83c-ea1fbbf4e0e, "type": "Microsoft.Authorization/policyDefinitions", "name": "742b549b-7a25-465f-b83c-ea1fbbf4e0e", ["properties": {"displayName": "Allowed storage account SKUs", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy enables you to specify a set of storage account SKUs that your organization can deploy.", "metadata": {"version": "1.0.0", "category": "Storage"}, "parameters": {"listOfAllowedSKUs": ["type": "Array", "description": "The list of SKUs that can be specified for storage accounts.", "displayName": "Allowed SKUs", "strongType": "StorageSKUs"]}, "policyRule": {"if": {"allOf": ["field": "type", "equals": "Microsoft.Storage/storageAccounts"], "not": ["field": "Microsoft.Storage/storageAccounts/sku.name", "in": [variables("listOfAllowedSKUs")]], "then": {"effect": "Deny"}}}, "id": /providers/Microsoft.Authorization/policyDefinitions/7433c107-6db4-4ad1-b57a-a76dec0154a1, "type": "Microsoft.Authorization/policyDefinitions", "name": "7433c107-6db4-4ad1-b57a-a76dec0154a1", ["properties": {"displayName": "Microsoft Managed Control 1631 - Boundary Protection | Deny By Default / Allow By Exception", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory"}]}]}}}}}},
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1631"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/74ae9b8e-e7bb-4c9c-992fc535282f7a2c","type":"Microsoft.Authorization/policyDefinitions","name":"74ae9b8e-e7bb-4c9c-992fc535282f7a2c"},{"properties":{"displayName":"Ensure
that ''Python version'' is the latest, if used as a part of the Api
app","policyType":"BuiltIn","mode":"Indexed","description":"Periodically,
newer versions are released for Python software either due to security flaws
or to include additional functionality. Using the latest Python version for
Api apps is recommended in order to take advantage of security fixes, if any,
and/or new functionalities of the latest version.","metadata":{"version":"1.0.0","category":"App
Service"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable
or disable the execution of the
policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"WindowsPythonLa
testVersion":{"type":"String","metadata":{"displayName":"Windows
Latest Python version","description":"Latest supported Python version for
App
Services"},"defaultValue":"3.6"},"LinuxPythonLatestVersion":{"type":"String","metadata":{"displayName":"Linux
Latest Python version","description":"Latest supported Python version for
App
Services"},"defaultValue":"3.8"}},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Web/sites"},{"fi
eld":"kind","like":"*api"}]},"then":{"effect":"[parameters(''effect'')]","details":{"type":"Microsoft.Web/sites/config"
,"name":"web","existenceCondition":{"anyOf":[{"allOf":[{"field":"Microsoft.Web/sites/config/web.linuxFxVersion
","notContains":"PYTHON"},{"field":"Microsoft.Web/sites/config/web.pythonVersion","equals":""}]},{"allOf":[{"
field":"Microsoft.Web/sites/config/web.linuxFxVersion","equals":"[concat(''PYTHON|'',
parameters(''LinuxPythonLatestVersion''))]"},{"field":"Microsoft.Web/sites/config/web.pythonVersion","equals":""
}]},{"allOf":[{"field":"Microsoft.Web/sites/config/web.linuxFxVersion","equals":""},{"field":"Microsoft.Web/sites
/config/web.pythonVersion","equals":"[parameters(''WindowsPythonLatestVersion'')]"}]}]}}}}},"id":"/providers/M
icrosoft.Authorization/policyDefinitions/74c3584d-afae-46f7-a20a6f8adba71a16","type":"Microsoft.Authorization/policyDefinitions","name":"74c3584d-afae-46f7-a20a6f8adba71a16"},{"properties":{"displayName":"Microsoft
Managed Control 1417 - Nonlocal Maintenance | Comparable Security /
Sanitization","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Maintenance control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1417"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/7522ed84-70d5-4181-afc021e50b1b6d0e","type":"Microsoft.Authorization/policyDefinitions","name":"7522ed84-70d5-4181-afc021e50b1b6d0e"},{"properties":{"displayName":"[Deprecated]:
Audit enabling of diagnostic logs in App Services","policyType":"BuiltIn","mode":"All","description":"Audit
enabling of diagnostic logs on the app. This enables you to recreate activity
trails for investigation purposes if a security incident occurs or your network
is compromised","metadata":{"version":"1.0.0-deprecated","category":"App
Service","deprecated":true},"parameters":{"effect":{"type":"String","metadata":{"displayName":"[Deprecated]:
Effect","description":"Enable or disable the execution of the
policy"},"allowedValues":["Audit","Disabled"],"defaultValue":"Audit"}},"policyRule":{"if":{"allOf":[{"field":"typ

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Managed Control 1468 - Visitor Access Records | Automated Records Maintenance

Managed Control 1053 - Session Lock | Pattern-Hiding Displays

Managed Control 1459 - Access Control For Transmission Medium

Managed Control 1459 - Access Control For Transmission Medium
Open Source Used In SDWan

should be remediated by a Vulnerability Assessment solution.

vulnerabilities detected by Vulnerability Assessment solution and VMs without a Vulnerability Assessment solution in Azure Security Center as recommendations.

- **parameters**: 
  - `effect`: 
    - `type`: "String" 
    - `metadata`: 
      - `displayName`: "Effect" 
      - `description": "Enable or disable the execution of the policy"

Allowed values: ["AuditIfNotExists", "Disabled"]

- **details**: 
  - `type": "Microsoft.Security/complianceResults" 
  - `name": "vulnerabilityAssessment" 
  - `existenceCondition": 
    - `field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]

- **listOfImageIdToInclude**: 
  - `type": "Array" 
  - `description": "Example value: 
    - /subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage"

- **details**: 
  - `type": "Microsoft.Compute/virtualMachineScaleSets" 
  - `in": ["RHEL", "RHEL-SAP-HANA"] 
  - `anyOf": ["like": "6.*", "like": "7*"]

- **details**: 
  - `type": "Microsoft.Compute/virtualMachineScaleSets/extensions" 
  - `anyOf": ["like": "6.*", "like": "7*"]

- **details**: 
  - `type": "Microsoft.Compute/virtualMachineScaleSets/extensions" 
  - `in": ["CentOS", "CentOS-LVM", "CentOS-SRIOV"] 
  - `anyOf": ["like": "6.*", "like": "7*"]

- **details**: 
  - `type": "Microsoft.Compute/virtualMachineScaleSets/extensions/roleDefinitions" 
  - `in": ["9980e02c-c2be-4d73-94e8-173b1dc7cf3c"] 

- **details**: 
  - `type": "Microsoft.Compute/virtualMachineScaleSets/extensions/roleDefinitionIds" 
  - `in": ["9980e02c-c2be-4d73-94e8-173b1dc7cf3c"]
Microsoft Managed Control 1423 - Maintenance Personnel | Individuals Without Appropriate Access

Microsoft implements this Maintenance control, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1423" },

"properties": 
"DisplayName": "Microsoft Managed Control 1423 - Maintenance Personnel | Individuals Without Appropriate Access",
"PolicyType": "Static",
"Mode": "Indexed",
"Description": "Microsoft implements this Maintenance control",
"Metadata": 
"Version": "1.0.0",
"Category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1423",

"PolicyRule": 
"If": 
"AllOf": 
[ 
"Field": "type",
"In": 
[ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ]
],
"Value": 
"false",
"Equals": 
"true"
],

"Then": 
"Effect": 
"Audit"
],

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"Type": "Microsoft.Authorization/policyDefinitions",
"Name": "7741669e-d4f6-485a-83cb-e70ce7bcbb20",

"Properties": 
"DisplayName": "Microsoft Managed Control 1423 - Maintenance Personnel | Individuals Without Appropriate Access",
"PolicyType": "Static",
"Mode": "Indexed",
"Description": "Microsoft implements this Maintenance control",
"Metadata": 
"Version": "1.0.0",
"Category": "Regulatory Compliance",
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"PolicyRule": 
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"AllOf": 
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[ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ]
],
"Value": 
"false",
"Equals": 
"true"
],

"Then": 
"Effect": 
"Audit"
],

"Id": "/providers/Microsoft.Authorization/policyDefinitions/7796937f-307b-4598-941c-67d3a05ebfe7",
"Type": "Microsoft.Authorization/policyDefinitions",
"Name": "7796937f-307b-4598-941c-67d3a05ebfe7",

"Properties": 
"DisplayName": "Microsoft Managed Control 1336 - Authenticator Management | Pki-Based Authentication",
"PolicyType": "Static",
"Mode": "Indexed",
"Description": "Microsoft implements this Identification and Authentication control",
"Metadata": 
"Version": "1.0.0",
"Category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1336",

"PolicyRule": 
"If": 
"AllOf": 
[ 
"Field": "type",
"In": 
[ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ]
],
"Value": 
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"Equals": 
"true"
],

"Then": 
"Effect": 
"Audit"
],

"Id": "/providers/Microsoft.Authorization/policyDefinitions/7814506c-382c-4d33-a142-249dd4a0dbff",
"Type": "Microsoft.Authorization/policyDefinitions",
"Name": "7814506c-382c-4d33-a142-249dd4a0dbff",

"Properties": 
"DisplayName": "Microsoft Managed Control 1258 - Contingency Training",
"PolicyType": "Static",
"Mode": "Indexed",
"Description": "Microsoft implements this Contingency Planning control",
"Metadata": 
"Version": "1.0.0",
"Category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1258",

"PolicyRule": 
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"Field": "type",
"In": 
[ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ]
],
"Value": 
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"Equals": 
"true"
],

"Then": 
"Effect": 
"Audit"
],

"Id": "/providers/Microsoft.Authorization/policyDefinitions/7814506c-382c-4d33-a142-249dd4a0dbff",
"Type": "Microsoft.Authorization/policyDefinitions",
"Name": "7814506c-382c-4d33-a142-249dd4a0dbff",

"Properties": 
"DisplayName": "Microsoft
Managed Control 1178 - Baseline Configuration | Reviews And Updates
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control",
"metadata": {
"version": "1.0.0", "category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1178"
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"policyRule": {
"if": {
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"in": ":[Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]",
"value": false,
"equals": true
}
],
"then": {
"effect": "audit"
}
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"id": "/providers/Microsoft.Authorization/policyDefinitions/7818b8f4-47c6-441a-90ae-12ce04e99893",
"properties": {
"displayName": "Microsoft Authorization/policyDefinitions",
"name": "7818b8f4-47c6-441a-90ae-12ce04e99893"
}
}

Managed Control 1057 - Permitted Actions Without Identification Or Authentication
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control",
"metadata": {
"version": "1.0.0", "category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1057"
},
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ":[Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]",
"value": false,
"equals": true
}
],
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/78255758-6d45-4bf0-a005-7016bc03b13c",
"properties": {
"displayName": "Microsoft Authorization/policyDefinitions",
"name": "78255758-6d45-4bf0-a005-7016bc03b13c"
}
}

Managed Control 1700 - Information System Monitoring | Unauthorized Network Services
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control",
"metadata": {
"version": "1.0.0", "category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1700"
},
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ":[Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]",
"value": false,
"equals": true
}
],
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/7831b4ba-c3f4-4cb1-8c11-ef8d59438cd5",
"properties": {
"displayName": "Microsoft Authorization/policyDefinitions",
"name": "7831b4ba-c3f4-4cb1-8c11-ef8d59438cd5"
}
}

Managed Control 1010 - Account Management
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control",
"metadata": {
"version": "1.0.0", "category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1010"
},
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ":[Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]",
"value": false,
"equals": true
}
],
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/784663a8-1eb0-418a-a98c-24d19be1bb62",
"properties": {
"displayName": "Microsoft Authorization/policyDefinitions",
"name": "784663a8-1eb0-418a-a98c-24d19be1bb62"
}
}

Managed Control 1216 - Least Functionality | Periodic Review
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control",
"metadata": {
"version": "1.0.0", "category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1216"
},
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ":[Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]",
"value": false,
"equals": true
}
],
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/7894fe6a-5cfb-44c8-ba90-c3f254ff9484",
"properties": {
"displayName": "Microsoft Authorization/policyDefinitions",
"name": "7894fe6a-5cfb-44c8-ba90-c3f254ff9484"
}
}

Managed Control 1639 - Boundary Protection | Isolation Of Information System Components
"policyType": "Static", "mode": "Indexed", "description": "Microsoft
implements this System and Communications Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1639"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/RESOURCEGROUPS"],"value":"false","equals":"true"}],["then":{"effect":"audit"}]},"id":"/providers/Microsoft.Authorization/policyDefinitions/78e8e649-50f6-4fe3-99ac-fedc2e63b03f"},"type":"Microsoft.Authorization/policyDefinitions","name":"78e8e649-50f6-4fe3-99ac-fedc2e63b03f"},"properties":{"displayName":"Microsoft Managed Control 1647 - Cryptographic Protection","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1647"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/RESOURCEGROUPS"],"value":"false","equals":"true"}],["then":{"effect":"audit"}]},"id":"/providers/Microsoft.Authorization/policyDefinitions/791cfc15-6974-42a0-9f4c-2d4b82f4a78c"},"type":"Microsoft.Authorization/policyDefinitions","name":"791cfc15-6974-42a0-9f4c-2d4b82f4a78c"},"properties":{"displayName":"Microsoft Managed Control 1510 - Position Risk Designation","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Personnel Security control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1510"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/RESOURCEGROUPS"],"value":"false","equals":"true"}],["then":{"effect":"audit"}]},"id":"/providers/Microsoft.Authorization/policyDefinitions/79da5b09-0e7e-499e-adda-141b069c7998"},"type":"Microsoft.Authorization/policyDefinitions","name":"79da5b09-0e7e-499e-adda-141b069c7998"},"properties":{"displayName":"Microsoft Managed Control 1384 - Information Spillage Response","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1384"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/RESOURCEGROUPS"],"value":"false","equals":"true"}],["then":{"effect":"audit"}]},"id":"/providers/Microsoft.Authorization/policyDefinitions/79fbc228-461c-4a45-9004-a865ca0728a7"},"type":"Microsoft.Authorization/policyDefinitions","name":"79fbc228-461c-4a45-9004-a865ca0728a7"},"properties":{"displayName":"Deploy prerequisites to audit Windows Server VMs on which Windows Serial Console is not enabled","policyType":"BuiltIn","mode":"Indexed","description":"This policy creates a Guest Configuration assignment to audit Windows Server virtual machines on which Windows Serial Console is not enabled. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":"1.1.0","category":"Guest Configuration","requiredProviders":["Microsoft.GuestConfiguration"],"parameters":["EMSPortNumber":{"type":"String"},"metadata":{"displayName":"EMS Port Number","description":"An integer indicating the COM port to be used for the Emergency Management Services (EMS) console redirection. For more
information on EMS settings, please visit
https://aka.ms/gcpolwsc

**EMS Baud Rate**

An integer indicating the baud rate to be used for the Emergency Management Services (EMS) console redirection. For more information on EMS settings, please visit
https://aka.ms/gcpolwsc
Managed Control 1687 - Information System Monitoring

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata":{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1687"}, "policyRule":{"if":{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true} ]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7a724864-956a-496c-b778-637cb1d762cf", "type": "Microsoft.Authorization/policyDefinitions", "name": "7a724864-956a-496c-b778-637cb1d762cf", "properties": {"displayName": "Microsoft Managed Control 1687 - Information System Monitoring"}

Managed Control 1061 - Remote Access | Automated Monitoring / Control

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata":{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1061"}, "policyRule":{"if":{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true} ]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7a87fc7f-301e-49f3-ba2a-4d74f424fa97", "type": "Microsoft.Authorization/policyDefinitions", "name": "7a87fc7f-301e-49f3-ba2a-4d74f424fa97", "properties": {"displayName": "Microsoft Managed Control 1061 - Remote Access | Automated Monitoring / Control"}

Managed Control 1492 - System Security Plan

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Planning control", "metadata":{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1492"}, "policyRule":{"if":{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true} ]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7ac22808-a2e8-41c4-9d46-429b50738914", "type": "Microsoft.Authorization/policyDefinitions", "name": "7ac22808-a2e8-41c4-9d46-429b50738914", "properties": {"displayName": "Microsoft Managed Control 1492 - System Security Plan"}

Managed Control 1636 - Boundary Protection | Isolation Of Security Tools / Mechanisms / Support Components

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata":{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1636"}, "policyRule":{"if":{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true} ]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7ad5f307-e045-46f7-8214-5bd7e973737", "type": "Microsoft.Authorization/policyDefinitions", "name": "7ad5f307-e045-46f7-8214-5bd7e973737", "properties": {"displayName": "Microsoft Managed Control 1636 - Boundary Protection | Isolation Of Security Tools / Mechanisms / Support Components"}

Managed Control 1636 - Boundary Protection | Isolation Of Security Tools / Mechanisms / Support Components

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata":{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1636"}, "policyRule":{"if":{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true} ]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7b694eed-7081-43c6-867c-41c76c961043", "type": "Microsoft.Authorization/policyDefinitions", "name": "7b694eed-7081-43c6-867c-41c76c961043", "properties": {"displayName": "Microsoft Managed Control 1636 - Boundary Protection | Isolation Of Security Tools / Mechanisms / Support Components"}

Diagnostic logs in Virtual Machine Scale Sets should be enabled, "policyType": "BuiltIn", "mode": "Indexed", "description": "It is recommended to enable Logs so that activity trail can be recreated when investigations are required in the event of an incident or a..."
Open Source Used In SDWan

Microsoft

- **Microsoft 7c1b1214-f927-48bf-8882-84f0af6588b1**
  - **Policy Name:** 7c1b1214-f927-48bf-8882-84f0af6588b1
  - **Description:** Enables audit if not exists policy for virtual machine scale sets
  - **Details:**
    - Field: Microsoft.Compute/virtualMachineScaleSets/extensions
    - Type: IaaS.Diagnostics
    - Publisher: Microsoft.Azure.Diagnostics

- **Microsoft 7c5a74bf-ae94-4a74-8fcf-644d1e0e6e6f**
  - **Policy Name:** 7c5a74bf-ae94-4a74-8fcf-644d1e0e6e6f
  - **Description:** Requires blob encryption for storage accounts

- **Microsoft 7c6de11b-5f51-4f7c-8d83-d2467c8a16e**
  - **Policy Name:** 7c6de11b-5f51-4f7c-8d83-d2467c8a16e
  - **Description:** Enforces security assessment and authorization procedures

- **Microsoft 7cac6ee9-b58b-40c8-a5ce-f0efc39d339**
  - **Policy Name:** 7cac6ee9-b58b-40c8-a5ce-f0efc39d339
  - **Description:** Enables session lock control

- **Microsoft 7d00bcd6-963d-4c02-ad8e-963d4c02-ad8e**
  - **Policy Name:** 7d00bcd6-963d4c02-ad8e-963d4c02-ad8e
  - **Description:** Enables telecommunication services control
Cache for Redis should reside within a virtual network.

This policy audits whether the Azure Cache for Redis resource has a non-public endpoint by being deployed into a virtual network.

The effect determines what happens when the policy rule is evaluated to match.

Microsoft implements this Audit and Accountability control.

Microsoft implements this Configuration Management control.

Microsoft implements this Physical and Environmental Protection control.

Show audit results from Windows VMs that have the specified applications installed.

The policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that have the specified applications installed.

For more information on Guest Configuration policies, please visit...
rationAssignments"."parameters("configurationName")""]))
        ],"id":"/providers/Microsoft.Authorization/policyDefinitions/7ed40801-8a0f-4ceb-85c0-9f625c1d61a8","type":"Microsoft.Authorization/policyDefinitions","name":"7ed40801-8a0f-4ceb-85c0-9f625c1d61a8","properties":{"displayName":"Microsoft
Managed Control 1191 - Configuration Change Control | Automated Document / Notification / Prohibition Of Changes","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Configuration Management control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"providers/Microsoft.PolicyInsights/policyMetadata/ACF1191","policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"}],"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/7f26a61b-a74d-467c-99cf-63644d144f7","type":"Microsoft.Authorization/policyDefinitions","name":"7f26a61b-a74d-467c-99cf-63644d144f7","properties":{"displayName":"Microsoft
Managed Control 1520 - Personnel Termination","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Personnel Security control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"providers/Microsoft.PolicyInsights/policyMetadata/ACF1520","policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"}],"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/7f2c513b-eb16-463b-b469-c10e5fa94f0a","type":"Microsoft.Authorization/policyDefinitions","name":"7f2c513b-eb16-463b-b469-c10e5fa94f0a","properties":{"displayName":"Microsoft
Managed Control 1126 - Audit Reduction And Report Generation | Automatic Processing","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Audit and Accountability control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"providers/Microsoft.PolicyInsights/policyMetadata/ACF1126","policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"}],"then":{"effect":"audit"}}},"id":"/providers/MicrosoftAuthorization/policyDefinitions/7f37f71b-420f-49bf-9477-9c0196974ecf","type":"Microsoft.Authorization/policyDefinitions","name":"7f37f71b-420f-49bf-9477-9c0196974ecf","properties":{"displayName":{"value":"[Preview]
Show audit results from Windows VMs configurations in "System Audit Policies - Privilege Use"","policyType":"BuiltIn","mode":"All","description":"This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Privilege Use". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":"1.0.0-preview","category":"Guest Configuration","preview":true},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines"},{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"],{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"}],{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"microsoft-dsvm"},{"field":"Microsoft.Compute/imageOffer","equals":"dsvm-windows"}],{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"microsoft-dsvm"},{"field":"Microsoft.Compute/imageOffer","equals":"dsvm-windows"}]}}]}]}]}},"id":"/providers/Microsoft.Authorization/policyDefinitions/7f37f71b-420f-49bf-9477-9c0196974ecf"}}}
Managed Control 1703 - Security Alerts, Advisories, And Directives, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/AFCF1703" },"policyRule": {"if": ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"]], "then": ["effect": "audit"], "id": "/providers/Microsoft.Authorization/policyDefinitions/7ff426e2-515f-405a-91c8-4f2333442eb5" },"type": "Microsoft.Authorization/policyDefinitions", "name": "7ff426e2-515f-405a-91c8-4f2333442eb5" },"properties": {"displayName": "Microsoft Managed Control 1703 - Security Alerts, Advisories, And Directives", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/AFCF1703" },"policyRule": {"if": ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"]], "then": ["effect": "audit"], "id": "/providers/Microsoft.Authorization/policyDefinitions/7ff426e2-515f-405a-91c8-4f2333442eb5" },"type": "Microsoft.Authorization/policyDefinitions", "name": "7ff426e2-515f-405a-91c8-4f2333442eb5" },"properties": {"displayName": "Microsoft Managed Control 1703 - Security Alerts, Advisories, And Directives", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/AFCF1703" },"policyRule": {"if": ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"]], "then": ["effect": "audit"], "id": "/providers/Microsoft.Authorization/policyDefinitions/7ff426e2-515f-405a-91c8-4f2333442eb5" },"type": "Microsoft.Authorization/policyDefinitions", "name": "7ff426e2-515f-405a-91c8-4f2333442eb5" },"properties": {"displayName": "Microsoft Managed Control 1703 - Security Alerts, Advisories, And Directives", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/AFCF1703" },"policyRule": {"if": ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"]], "then": ["effect": "audit"], "id": "/providers/Microsoft.Authorization/policyDefinitions/7ff426e2-515f-405a-91c8-4f2333442eb5" },"type": "Microsoft.Authorization/policyDefinitions", "name": "7ff426e2-515f-405a-91c8-4f2333442eb5" },"properties": {"displayName": "Microsoft Managed Control 1703 - Security Alerts, Advisories, And Directives", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/AFCF1703" },"policyRule": {"if": ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"]], "then": ["effect": "audit"], "id": "/providers/Microsoft.Authorization/policyDefinitions/7ff426e2-515f-405a-91c8-4f2333442eb5" },"type": "Microsoft.Authorization/policyDefinitions", "name": "7ff426e2-515f-405a-91c8-4f2333442eb5" },"properties": {"displayName": "Microsoft Managed Control 1703 - Security Alerts, Advisories, And Directives", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/AFCF1703" },"policyRule": {"if": ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"]], "then": ["effect": "audit"], "id": "/providers/Microsoft.Authorization/policyDefinitions/7ff426e2-515f-405a-91c8-4f2333442eb5" },"type": "Microsoft.Authorization/policyDefinitions", "name": "7ff426e2-515f-405a-91c8-4f2333442eb5" },"properties": {"displayName": "Microsoft Managed Control 1703 - Security Alerts, Advisories, And Directives", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/AFCF1703" },"policyRule": {"if": ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"]], "then": ["effect": "audit"], "id": "/providers/Microsoft.Authorization/policyDefinitions/7ff426e2-515f-405a-91c8-4f2333442eb5" },"type": "Microsoft.Authorization/policyDefinitions", "name": "7ff426e2-515f-405a-91c8-4f2333442eb5" },"properties": {"displayName": "Microsoft Managed Control 1703 - Security Alerts, Advisories, And Directives", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/AFCF1703" },"policyRule": {"if": ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"]], "then": ["effect": "audit"], "id": "/providers/Microsoft.Authorization/policyDefinitions/7ff426e2-515f-405a-91c8-4f2333442eb5" },"type": "Microsoft.Authorization/policyDefinitions", "name": "7ff426e2-515f-405a-91c8-4f2333442eb5" },"properties": {"displayName": "Microsoft Managed Control 1703 - 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Deploy prerequisites to audit Windows VMs configurations in "User Rights Assignment". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "User Rights Assignment". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Users or groups that may access this computer from the network.
This does not include Remote Desktop Connection.

Users or groups that may log on locally.
This does not include Remote Desktop Connection.

Users or groups that may log on through Remote Desktop Services.

Users and groups that are denied access to this computer from the network.

Users or groups that may manage auditing and security log.

Users or groups that may back up files and directories.

Users or groups that may change the system time.

Users or groups that may change the time zone.
users and groups are permitted to change the time zone of the computer.

LOCAL SERVICE

Users or groups that may create a token object

Users and groups that are permitted to create an access token, which may provide elevated rights to access sensitive data.

One

Users and groups that are denied logging on as a batch job

Users and groups that are explicitly not permitted to log on to the computer as a batch job (i.e. scheduled task).

Users and groups that are denied logging on as a service

Users and groups that are explicitly not permitted to register a process as a service.

Users and groups that are denied local logon

Users and groups that are explicitly not permitted to log on to the computer.

Users and groups that are denied logging on through Remote Desktop Services

Users and groups that are explicitly not permitted to log on to the computer via Terminal Services/Remote Desktop Client.

Users and groups that may force shutdown from a remote system

Users and groups that are permitted to shut down the computer from a remote location on the network.

Users and groups that may restore files and directories

Users and groups that are permitted to bypass file, directory, registry, and other persistent object permissions when restoring backed up files and directories.

Users and groups that may shut down the system

Users and groups who are logged on locally to the computers in your environment are permitted to shut down the operating system with the Shut Down command.

Users or groups that may take ownership of files or other objects

Users and groups are permitted to take ownership of files, folders, registry keys, processes, or threads. This user right bypasses any permissions that are in place to protect objects to give ownership to the specified
Open Source Used In SDWAN 20.7.1

8643
parameters("UsersAndGroupsThatAreDeniedLogOnThroughRemoteDesktopServices"),
    ","", "Force shutdown from a remote system;ExpectedValue", ",=",
parameters("UserAndGroupsThatMayForceShutdownFromARemoteSystem"),
    ","", "Restore files and directories;ExpectedValue", ",=",
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    ","", "Shut down the system;ExpectedValue", ",=",
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    ","", "Take ownership of files or other objects;ExpectedValue", ",=",
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    ","", "Take ownership of files or other objects;ExpectedValue", ",=",
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          "value": "[parameters("UsersOrGroupsThatMayTakeOwnershipOfFilesOrOtherObjects")]",
        }
      }
    },
    "template": {
      "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
      "contentVersion": "1.0.0.0",
      "parameters": {
        "vmName": {
          "type": "string"
        },
        "location": {
          "type": "string"
        },
        "type": {
          "type": "string"
        },
        "configurationName": {
          "type": "string"
        },
        "UsersOrGroupsThatMayAccessThisComputerFromTheNetwork": {
          "type": "string"
        },
        "UsersOrGroupsThatMayLogOnLocally": {
          "type": "string"
        },
        "UsersOrGroupsThatMayLogOnThroughRemoteDesktopServices": {
          "type": "string"
        },
        "UsersOrGroupsThatAreDeniedAccessToThisComputerFromTheNetwork": {
          "type": "string"
        },
        "UsersOrGroupsThatMayManageAuditingAndSecurityLog": {
          "type": "string"
        },
        "UsersOrGroupsThatMayBackUpFilesAndDirectories": {
          "type": "string"
        },
        "UsersOrGroupsThatMayChangeTheSystemTime": {
          "type": "string"
        },
        "UsersOrGroupsThatMayChangeTheTimeZone": {
          "type": "string"
        },
        "UsersOrGroupsThatMayCreateATokenObject": {
          "type": "string"
        },
        "UsersAndGroupsThatAreDeniedLoggingOnAsAJob": {
          "type": "string"
        },
        "UsersAndGroupsThatAreDeniedLoggingOnAsAService": {
          "type": "string"
        },
        "UsersOrGroupsThatMayShutDownTheSystem": {
          "type": "string"
        },
        "UsersOrGroupsThatMayTakeOwnershipOfFilesOrOtherObjects": {
          "type": "string"
        }
      },
      "resources": {
        "condition": {
          "equals": {
            "usersOrGroupsThatMayTakeOwnershipOfFilesOrOtherObjects": "[parameters("type")]",
            "usersOrGroupsThatMayShutDownTheSystem": "[parameters("type")]
        },
        "apiVersion": "2018-11-"
20", "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", "name": [concat(parameters("vmName")), "/Microsoft.GuestConfiguration/", parameters("configurationName")), "location": [parameters("location")), "properties": {"guestConfiguration": {"name": parameters("configurationName")), "version": "1.*", "configurationParameter": [{"name": "Access this computer from the network;ExpectedValue", "value": parameters("UsersOrGroupsThatMayAccessThisComputerFromTheNetwork")) ], "name": "Allow log on locally;ExpectedValue", "value": parameters("UsersOrGroupsThatMayLogOnLocally")) ], "name": "Allow log on through Remote Desktop Services;ExpectedValue", "value": parameters("UsersOrGroupsThatMayLogOnThroughRemoteDesktopServices")) ], "name": "Deny access to this computer from the network;ExpectedValue", "value": parameters("UsersAndGroupsThatAreDeniedAccessToThisComputerFromTheNetwork")) ], "name": "Manage auditing and security log;ExpectedValue", "value": parameters("UsersOrGroupsThatMayManageAuditingAndSecurityLog")) ], "name": "Back up files and directories;ExpectedValue", "value": parameters("UsersOrGroupsThatMayBackUpFilesAndDirectories")) ], "name": "Change the system time;ExpectedValue", "value": parameters("UsersOrGroupsThatMayChangeTheSystemTime")) ], "name": "Change the time zone;ExpectedValue", "value": parameters("UsersOrGroupsThatMayChangeTheTimeZone")) ], "name": "Create a token object;ExpectedValue", "value": parameters("UsersOrGroupsThatMayCreateATokenObject")) ], "name": "Deny log on as a batch job;ExpectedValue", "value": parameters("UsersAndGroupsThatAreDeniedLoggingOnAsABatchJob")) ], "name": "Deny log on as a service;ExpectedValue", "value": parameters("UsersAndGroupsThatAreDeniedLoggingOnAsAService")) ], "name": "Deny log on locally;ExpectedValue", "value": parameters("UsersAndGroupsThatAreDeniedLocalLogon")) ], "name": "Deny log on through Remote Desktop Services;ExpectedValue", "value": parameters("UsersAndGroupsThatAreDeniedLogOnThroughRemoteDesktopServices")) ], "name": "Force shutdown from a remote system;ExpectedValue", "value": parameters("UserAndGroupsThatMayForceShutdownFromARemoteSystem")) ], "name": "Restore files and directories;ExpectedValue", "value": parameters("UsersAndGroupsThatMayRestoreFilesAndDirectories")) ], "name": "Shut down the system;ExpectedValue", "value": parameters("UsersAndGroupsThatMayShutDownTheSystem")) ], "name": "Take
directories; ExpectedValue", "value": "[parameters("UsersAndGroupsThatMayRestoreFilesAndDirectories")]
}, {"name": "Shut down the system; ExpectedValue", "value": "[parameters("UsersAndGroupsThatMayShutDownTheSystem")]
}, {"name": "Take ownership of files or other objects; ExpectedValue", "value": "[parameters("UsersOrGroupsThatMayTakeOwnershipOfFilesOrOtherObjects")]
} ] } ]
{"condition": [equals(toLower(parameters("type")),
}, {"location": "[parameters("location")]
}, {"condition": [equals(toLower(parameters("type")),
toLower("Microsoft.Compute/virtualMachines"))], "apiVersion": "2015-05-01"}, "preview": "name": "[concat(parameters("vmName"), "/AzurePolicyforWindows")]
}, "type": "Microsoft.Compute/virtualMachines/extensions", "location": "[parameters("location")]
}, {"properties": {"publisher": "Microsoft.GuestConfiguration", "type": "ConfigurationforWindows", "typeHandlerVersion": "1.1", "autoUpgradeMinorVersion": true, "settings": {}, "protectedSettings": {}}}, "dependsOn": ["[concat(Microsoft.Compute/virtualMachines/parameters("vmName"), "/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/parameters("configurationName")])"]}], "id": "/providers/Microsoft.Authorization/policyDefinitions/815dce9f-6662-43f2-9a03-1bb3e9876f24"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "815dce9f-6662-43f2-9a03-1bb3e9876f24"}, {"properties": {"displayName": "Microsoft Managed Control 1308 - Identification And Authentication (Org. Users) | Remote Access - Separate Device","policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance","additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1308"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": audit}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/81817e1c-5347-48dd-965a-40159d008229"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "81817e1c-5347-48dd-965a-40159d008229"}, {"properties": {"displayName": "Microsoft Managed Control 1287 - Information System Backup","policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance","additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1287"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": audit}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/819dc6da-289d-476e-8500-7e341ef8677d"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "819dc6da-289d-476e-8500-7e341ef8677d"}, {"properties": {"displayName": "Microsoft Managed Control 1213 - Configuration Settings | Respond To Unauthorized Changes","policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance","additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1213"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": audit}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/81f11e32-a293-4a58-82cd-134af52e2318"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "81f11e32-a293-4a58-82cd-134af52e2318"}, {"properties": {"displayName": "Geo-redundant..."}
backup should be enabled for Azure Database for MySQL. This policy audits any Azure Database for MySQL with geo-redundant backup not enabled.

or disable the execution of the policy.

Managed Control 1168 - Continuous Monitoring | Independent Assessment

Managed Control 1448 - Physical Access

Managed Control 1452 - Physical Access Control

Managed Control 1262 - Contingency Plan Testing
Managed Control 1008 - Account Management

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Access Control control

- **Policy Rule**: 
  - **If**: 
    - `allOf`: 
      - **Field**: `type` in `Microsoft.Resources/subscriptions/subscriptions/resourceGroups[]`
      - `value`: false, equals: true
  - **Then**: 
    - `effect`: audit

- **Policy Definition ID**: 831e510e-db41-4c72-888e-a0621ab62265
- **Policy Name**: Microsoft Managed Control 1008 - Account Management
- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Access Control control

- **Metadata**: 
  - `displayName`: Microsoft Managed Control 1008 - Account Management
  - `policyType`: Static
  - `mode`: Indexed
  - `description`: Microsoft implements this Access Control control

- **Policy Rule**: 
  - **If**: 
    - `allOf`: 
      - **Field**: `type` in `Microsoft.Resources/subscriptions/subscriptions/resourceGroups[]`
      - `value`: false, equals: true
  - **Then**: 
    - `effect`: audit

- **Policy Definition ID**: 8356cfc6-507a-4d20-b818-08038011cd07
- **Policy Name**: Diagnostic logs in Event Hub should be enabled
- **Policy Type**: BuiltIn
- **Mode**: Indexed
- **Description**: Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes when a security incident occurs or when your network is compromised.

- **Metadata**: 
  - `displayName`: Diagnostic logs in Event Hub should be enabled
  - `policyType`: BuiltIn
  - `mode`: Indexed
  - `description`: Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes when a security incident occurs or when your network is compromised.

- **Parameters**: 
  - `effect` of type string, metadata: 
    - `displayName`: Effect
    - `description`: Enable or disable the execution of the policy
  - `requiredRetentionDays` of type string, metadata: 
    - `displayName`: Required retention (days)

- **Policy Rule**: 
  - **If**: 
    - `field`: `type` equals `Microsoft.EventHub/namespaces`
  - **Then**: 
    - `effect` of type `parameters('effect')`

- **Policy Definition ID**: 83a214f7-d01a-484b-91a9-ed54470c9a6a
- **Policy Name**: Network interfaces should not have public IPs
- **Policy Type**: BuiltIn
- **Mode**: Indexed
- **Description**: This policy denies the network interfaces which are configured with any public IP. Public IP addresses allow internet resources to communicate inbound to Azure resources, and Azure resources to communicate outbound to the internet.

- **Metadata**: 
  - `displayName`: Network interfaces should not have public IPs
  - `policyType`: BuiltIn
  - `mode`: Indexed
  - `description`: This policy denies the network interfaces which are configured with any public IP. Public IP addresses allow internet resources to communicate inbound to Azure resources, and Azure resources to communicate outbound to the internet.

- **Parameters**: 
  - `effect` of type string

- **Policy Rule**: 
  - **If**: 
    - `field`: `type` equals `Microsoft.Network/networkInterfaces`
  - **Then**: 
    - `deny`

- **Policy Definition ID**: 83a86a26-fd1f-447c-b59d-e51f44264114
- **Policy Name**: Bring your own key data protection should be enabled for MySQL servers
- **Policy Type**: BuiltIn
- **Mode**: Indexed
- **Description**: This policy audits MySQL servers in your environment without bring your own key data protection enabled.

- **Metadata**: 
  - `displayName`: Bring your own key data protection should be enabled for MySQL servers
  - `policyType`: BuiltIn
  - `mode`: Indexed
  - `description`: This policy audits MySQL servers in your environment without bring your own key data protection enabled.
Managed Control 1382 - Incident Response Plan

- **Policy Type**: Static, Mode: Indexed, Description: Microsoft implements this Incident Response control. If the Log Analytics agent is not installed, the policy audits Linux Azure Arc machines.

- **Policy Rule**:
  - **If**: All of
    - **Field**: type, in: ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
    - **Value**: false, equals: true
  - **Then**: Effect: audit

Managed Control 1098 - Security Training Records

- **Policy Type**: Static, Mode: Indexed, Description: Microsoft implements this Awareness and Training control. Periodically, newer versions are released for .NET Framework software either due to security flaws or to include additional functionality. Using the latest .NET framework
Open Source Used In SDWan

Version for web apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.

Managed Control 1119 - Audit Review, Analysis, And Reporting | Central Review

And Analysis, policyType: "Static", mode: "Indexed", description: "Microsoft implements this Audit and Accountability control",

Managed Control 1024 - Account Management | Account Monitoring / Atypical Usage, policyType: "Static", mode: "Indexed", description: "Microsoft implements this Access Control control",


Managed Control 1580 - Information System

Control implemented with this System and Services Acquisition Control metadata: [version: "1.0.0", category: "Regulatory Compliance", additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1580], policyRule: {
  "if": {
    "allOf": [{
      "field": "type",
      "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
      "value": false,
      "equals": true
    }]
  },
  "then": {
    "effect": "audit"
  }
}, id: /providers/Microsoft.Authorization/policyDefinitions/854db8ac-6adf-42a0-bef3-b73f764f40b9

Managed Control 1348 - Identification And Authentication (Non-Org. Users)

  "if": {
    "allOf": [{
      "field": "type",
      "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
      "value": false,
      "equals": true
    }]
  },
  "then": {
    "effect": "audit"
  }
}, id: /providers/Microsoft.Authorization/policyDefinitions/855ced56-417b-4d74-9d5f-dd1bc81e22d6

Managed Control 1079 - Use Of External Information Systems | Limits On Authorized Use

Policy implemented this Access Control control metadata: [version: "1.0.0", category: "Regulatory Compliance", additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1079], policyRule: {
  "if": {
    "allOf": [{
      "field": "type",
      "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
      "value": true,
      "equals": true
    }]
  },
  "then": {
    "effect": "audit"
  }
}, id: /providers/Microsoft.Authorization/policyDefinitions/85c32733-7d23-4948-88da-058ec56b60f

Managed Control 1326 - Authenticator

Management metadata: [version: "1.0.0", category: "Regulatory Compliance", additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1326], policyRule: {
  "if": {
    "allOf": [{
      "field": "type",
      "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
      "value": true,
      "equals": true
    }]
  },
  "then": {
    "effect": "audit"
  }
}, id: /providers/Microsoft.Authorization/policyDefinitions/8605fc00-1bf5-4fb3-984e-c95ce4f231d

Deploy prerequisites to audit Windows VMs configurations in "Security Options - Microsoft Network Server", policyType: "BuiltIn", mode: "Indexed", description: "This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Microsoft Network Server". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol metastart: [version: "1.1.0-preview", category: "Guest"

Open Source Used In SDWan 20.7.1 8652
SQL DB transparent data encryption, "policyType": "BuiltIn", "mode": "Indexed", "description": "Enables transparent data encryption on SQL databases","metadata": {
"version": "1.0.0", "category": "SQL", 
"parameters": [], 
"policyRule": {
"if": {
"allOf": [
{"field": "type", "equals": "Microsoft.Sql/servers/databases"},
{"field": "name", "notEquals": "master"}
]
},
"then": {
"effect": "DeployIfNotExists",
"details": {
"type": "Microsoft.Sql/servers/databases/transparentDataEncryption",
"name": "current",
"existenceCondition": {
"field": "Microsoft.Sql/transparentDataEncryption.status",
"equals": "Enabled"
},
"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/9b7fa17d-e63e-47b0-bb0a-15c516ac86ec"],
"deployment": {
"properties": {
"mode": "incremental",
"template": {
"contentVersion": "1.0.0.0",
"parameters": {
"fullDbName": {
"type": "string"}
},
"resources": [
{
"name": "[concat(parameters('fullDbName'), '/current')]",
"type": "Microsoft.Sql/servers/databases/transparentDataEncryption",
"apiVersion": "2014-04-01",
"properties": {
"status": "Enabled"
}
}]
}]
},
"parameters": {
"fullDbName": {
"value": "[field('fullDbName')]"
}
}]
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/86a912f6-9a06-4e26-b447-11b16ba865f9",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "86a912f6-9a06-4e26-b447-11b16ba865f9",
"properties": {
"displayName": "System updates should be installed on your machines",
"policyType": "BuiltIn",
"mode": "All",
"description": "Missing security system updates on your servers will be monitored by Azure Security Center as recommendations",
"metadata": {
"version": "1.0.0",
"category": "Security Center"
},
"parameters": {
"effect": {
"type": "String",
"metadata": {
"displayName": "Effect",
"description": "Enable or disable the execution of the policy"
}
},
"allowedValues": [
"AuditIfNotExists",
"Disabled"
],
"defaultValue": "AuditIfNotExists"
},
"policyRule": {
"if": {
"allOf": [
{"field": "type", "in": 
["Microsoft.Compute/virtualMachines", 
"Microsoft.ClassicCompute/virtualMachines"]}
],
"then": {
"effect": "systemUpdates",
"details": {
"type": "Microsoft.Security/complianceResults",
"name": "systemUpdates",
"existenceCondition": {
"field": "Microsoft.Security/complianceResults/resourceStatus",
"in": ["OffByPolicy", "Healthy"]
}
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/86b3d65f-7626-441e-b690-81a8b71cf6f0",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "86b3d65f-7626-441e-b690-81a8b71cf6f0",
"properties": {
"displayName": "Microsoft Managed Control 1507 - Personnel Security Policy And Procedures",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft implements this Personnel Security control",
"metadata": {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1507"
},
"policyRule": {
"if": {
"allOf": [
{"field": "type", "in": 
["Microsoft.Resources/subscriptions", 
"Microsoft.Resources/subscriptions/resourceGroups"]}
],
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/86cd1bf-e7ad-4851-93ce-6ec817469e1e",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "86cd1bf-e7ad-4851-93ce-6ec817469e1e",
"properties": {
"displayName": "Ensure that Register with Azure Active Directory is enabled on API app",
"policyType": "BuiltIn",
"mode": "Indexed",
"description": "Managed"
service identity in App Service makes the app more secure by eliminating secrets from the app, such as credentials in the connection strings. When registering with Azure Active Directory in the app service, the app will connect to other Azure services securely without the need of username and passwords.

Managed Control 1392 - Information Spillage Response | Post-Spill Operations

Managed Control 1589 - External Information System Services | Risk Assessments / Organizational Approvals

Managed Control 1207 - Access Restrictions For Change | Limit Production / Operational Privileges

Require a tag on resources

Open Source Used In SDWan 20.7.1 8655
Managed Control 1180 - Baseline Configuration | Automation Support For Accuracy
/Currency,"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Configuration Management control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1180"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":"false","equals":"true"]},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/871b6d14-10aa-478d-b590-94f262ecfa99","properties":{"displayName":"Microsoft Managed Control 1180 - Baseline Configuration | Automation Support For Accuracy"}}
Managed Control 1293 - Information System Backup | Separate Storage For Critical Information

Managed Control 1440 - Media Sanitization | Review / Approve / Track / Document / Verify

Managed Control 1356 - Incident Response Training | Simulated Events

Deploy prerequisites to audit Linux VMs that have the specified applications installed.

This policy creates a Guest Configuration assignment to audit Linux virtual machines that have the specified applications installed. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
that should not be installed. e.g. "python; powershell" ) ] ], "policyRule": { "if": { "anyOf": [ { "allOf": [ { "field": "Microsoft.Compute/imagePublisher", "in": [ "microsoft-aks", "AzureDatabricks", "qubole", "datastax", "couchbase", "scalegrid", "checkpoint", "paloaltonetworks" ], "allOf": [ { "field": "Microsoft.Compute/imagePublisher", "equals": "OpenLogic" }, { "field": "Microsoft.Compute/imageOffer", "like": "CentOS*" }, { "field": "Microsoft.Compute/imageSKU", "notLike": "6*" }, { "allOf": [ { "field": "Microsoft.Compute/imagePublisher", "equals": "RedHat" }, { "field": "Microsoft.Compute/imageOffer", "equals": "RedHat" }, { "field": "Microsoft.Compute/imageSKU", "notLike": "6*" } ] } ], { "allOf": [ { "field": "Microsoft.Compute/imagePublisher", "equals": "Canonical" }, { "field": "Microsoft.Compute/imageOffer", "equals": "UbuntuServer" }, { "field": "Microsoft.Compute/imageSKU", "notLike": "12*" } ] } ] } ], { "allOf": [ { "field": "Microsoft.Compute/imagePublisher", "equals": "Microsoft-ads" }, { "field": "Microsoft.Compute/imageOffer", "like": "linux*" } ] } ] } ] ] } ] }, { "allOf": [ { "field": "type", "equals": "Microsoft.HybridCompute/machines" }, { "field": "Microsoft.HybridCompute/imageOffer", "like": "linux*" } ] } ], then: { "effect": "deployIfNotExists", "details": { "roleDefinitionIds": [ "/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c" ], "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "not_installed_application_linux", "existenceCondition": { "field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash", "equals": "[base64(concat([ChefInSpec]NotInstalledApplicationLinuxResource1;AttributesYmlContent;" "=", concat("packages: ", replace(parameters("ApplicationName"), ";", ", ", "])))]", "deployment": { "properties": { "mode": "incremental", "parameters": { "vmName": { "value": "$[field(name)]" }, "location": { "value": "$[field(location)]" }, "type": { "value": "$[field(type)]" }, "configurationName": { "value": "not_installed_application_linux" }, "ApplicationName": { "value": $[parameters("ApplicationName")], "type": "string" } }, "resources": [ { "condition": [ equals(toLower(parameters("type")), toLower("microsoft.hybridcompute/machines")) ], "apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", "name": [ concat(parameters("vmName"), "Microsoft.GuestConfiguration/"), parameters("configurationName") ], "location": [ parameters("location") ], "properties": { "name": [ parameters("configurationName") ], "version": "1.0", "configurationParameter": [ "name": [ ChefInSpec ]NotInstalledApplicationLinuxResource1;AttributesYmlContent", "value": [ concat("packages: ", replace(parameters("ApplicationName"), ";", ", ", ")) ] ] } ] } ] } ] } ] } ];
Open Source Used In SDWan 20.7.1  8659

["replace(parameters("ApplicationName"), ";", ",")
, toLower("Microsoft.Compute/virtualMachines")]},
"apiVersion":"2018-11-20",
"type":"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments",
"name":
[concat(parameters("vmName"),
"/Microsoft.GuestConfiguration/",
parameters("configurationName"))],
"location":
[parameters("location")],
"properties":
{"guestConfiguration":
{"name":parameters("configurationName")),
"version":"1.*",configurationParameter:[
{"name":"[ChefInSpec]NotInstalledApplicationLinuxResource1;AttributesYmlContent", "value":
[concat('"packages:
", replace(parameters("ApplicationName"), ";", ",")
,""
)]]}],
"condition":
[equals(toLower(parameters("type")),
toLower("Microsoft.Compute/virtualMachines"))]
},apiVersion":"2019-07-01",
type":"Microsoft.Compute/virtualMachines",identity:
{"type":"SystemAssigned"},name:
[parameters("vmName")],
"location":
[parameters("location")],
"condition":
[equals(toLower(parameters("type")),
toLower("Microsoft.Compute/virtualMachines"))],
"apiVersion":"2015-05-01-preview",
"name":
[concat(parameters("vmName"),
"AzurePolicyforLinux")],
"type":"Microsoft.Compute/virtualMachines/extensions",
"location":
[parameters("location")],
"properties":
{"publisher":Microsoft.GuestConfiguration,"type":"ConfigurationforLinux",
typeHandlerVersion":"1.0.0","autoUpgradeMinorVersion":true,
"settings":{},
"protectedSettings":{},
"dependsOn":
[concat("Microsoft.Compute/virtualMachines",parameters("vmName"),
"/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments",parameters("configurationName"))]
},id:
["providers/Microsoft.Authorization/policyDefinitions/884b209a-963b-4520-8006-d20cb3c213e0", "type":"Microsoft.Authorization/policyDefinitions",
names:"884b209a-963b-4520-8006-d20cb3c213e0"],
"properties":
{"displayName":"Microsoft Managed Control 1317 - Authenticator Managed Control 1317 - Authenticator",
"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Identification and Authentication control",
"metadata":
{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":
["providers/Microsoft.PolicyInsights/policyMetadata/ACF1317"]},
policyRule:
{"if":
{"allOf":
["field":"type", "in":
[Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]],
"value":false,"equals":true},
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Show audit results from Windows VMs configurations in "Windows Firewall Properties". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Windows Firewall Properties".

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol. This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Windows Firewall Properties".

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Show audit results from Windows VMs configurations in "Windows Firewall Properties". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Windows Firewall Properties".

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
from the app, such as credentials in the connection strings. When registering with Azure Active Directory in the app service, the app will connect to other Azure services securely without the need of username and passwords. The metadata contains the version and category, along with the display name and description.

Managed Control 1458 - Physical Access Control | Information System Access

Managed Control 1683 - Information System Monitoring

Microsoft Managed Control 1316 - Identifier Management | Identify User Status

TLS version should be used in your API App Service. The metadata includes the version and category, along with the display name and description.

Managed Control 1316 - Identifier Management | Identify User Status

Microsoft implements this Identification and Authentication control.

Microsoft Managed Control 1683 - Information System Monitoring

Microsoft implements this System and Information Integrity control.

Microsoft Managed Control 1458 - Physical Access Control | Information System Access

Microsoft implements this Physical and Environmental Protection control.

Microsoft Managed Control 1316 - Identifier Management | Identify User Status

Microsoft implements this Identification and Authentication control.

Latest TLS version should be used in your API App Service. The metadata includes the version and category, along with the display name and description.
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Managed Control 1517 - Personnel Termination

Managed Control 1668 - Flaw Remediation

Managed Control 1013 - Account Management | Automated System Account Management

Managed Control 1147 - Security Assessments

Managed Control 1014 - Security Assessments
Deploy prerequisites to audit Windows VMs that do not store passwords using reversible encryption.

This policy creates a Guest Configuration assignment to audit Windows virtual machines that do not store passwords using reversible encryption. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration.

This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
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Managed Control 1133 - Protection Of Audit Information | Cryptographic Protection

This policy implements Microsoft's Auditor and Accountability control. The policy checks for the presence of specific Windows PowerShell modules in virtual machines. If the modules are not installed, the policy creates a Guest Configuration assignment to audit Windows virtual machines that do not have the specified Windows PowerShell modules installed. It also creates a system-assigned managed identity and deploys the VM extension for auditing.
Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

modules, audit policy in an initiative. You may also specify a specific version of a module that should be installed by including a comma after the module name, followed by the desired version. e.g. PSDscResources; SqlServerDsc.

6.1.0.0; ComputerManagementDsc,

| Parameters | Modules | PowerShell
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Show audit results from Windows VMs configurations in "Windows Components". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Windows Components". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol,

Microsoft Managed Control 1069 - Wireless Access | Authentication And Encryption, implements this Access Control control. For more details, please visit https://aka.ms/gcpol.

Microsoft Open Source Used In SDWan

Managed Control 1370 - Incident Monitoring | Automated Tracking / Data Collection / Analysis”, “policyType”:”Static”, “mode”:”Indexed”, “description”:”Microsoft implements this Incident Response control”, ”metadata”:”{“version”:”1.0.0”, “category”:”Regulatory Compliance”, “additionalMetadataId”:”/providers/Microsoft.PolicyInsights/policyMetadata/ACF1370”}, ”policyRule”:”{ “if”: { “allOf”: [ { “field”: “type”, “in”: [”Microsoft.Resources/subscriptions”, “Microsoft.Resources/subscriptions/resourceGroups”] }, { “value”: “false”, “equals”: “true” } ] }, “then”: { “effect”: “audit” } }”, ”id”: “/providers/Microsoft.Authorization/policyDefinitions/924e1b2d-c502-47bf-bfbd-a7e09a0d5c01”, “type”: ”Microsoft.Authorization/policyDefinitions”, “name”: ”924e1b2d-c502-47bf-bfbd-a7e09a0d5c01” } 

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This policy creates a Guest Configuration assignment to audit Windows virtual machines in which the Administrators group does not contain all of the specified members. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

This policy creates a Guest Configuration assignment to audit Windows virtual machines in which the Administrators group does not contain all of the specified members. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

The policy contains both the audit policy and the configuration policy. The audit policy is:

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App Service Authentication is a feature that can prevent anonymous HTTP requests from reaching the web app, or authenticate those that have tokens before they reach the web app. The policy definition includes a condition that checks if the type is Microsoft.Web/sites and the kind is like "app*". If this condition is met, the effect is set to "[param`eters(''effect'')]". The policy rule also checks if the existence condition is true for the siteAuthEnabled property of the Microsoft.Web/sites/config resource. If both conditions are met, the effect is set to "audit". The other policy definitions follow a similar structure, implementing various security and compliance controls for Azure resources.
Ensure that an email address is provided for the "Send alerts to" field in the Advanced Data Security server settings. This email address receives alert notifications when anomalous activities are detected on SQL servers.

or disable the execution of the policy

Configuration should use a customer managed key.

Configuration audits any App Configuration instance that does not use a customer managed key.

Microsoft implements this Physical and Environmental Protection control

Show audit results from Windows VMs configurations in "Administrative Templates - MSS (Legacy)". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Administrative Templates - MSS (Legacy)". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

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"preview": true },

"parameters": { "AuditAuthenticationPolicyChange": { "type": "String", "metadata": { "displayName": "Audit Authentication Policy Change" },

"description": "Specifies whether audit events are generated when changes are made to authentication policy. This setting is useful for tracking changes in domain-level and forest-level trust and privileges that are granted to user accounts or groups." },

"allowedValues": [ "No Open Source Used In SDWan 20.7.1 8689
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Failure"],"defaultValue":"Success"},"AuditAuthorizationPolicyChange":{"type":"String","metadata":{"displayNam
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changes and Central Access Policy changes for file system objects."},"allowedValues":["No
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Event Grid domains should use private links","policyType":"BuiltIn","mode":"Indexed","description":"Audit
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visit https://aka.ms/privateendpoints.","metadata":{"version":"1.0.0","category":"Event
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Turn off multicast name resolution", "description": "Specifies whether LLNMR, a secondary name resolution protocol that transmits using multicast over a local subnet link on a single subnet, is enabled."}, {"defaultValue": "1"}, "policyRule": {"if": {"anyOf": [{"allOf": [{"field": "Microsoft.Compute/virtualMachines"}, {"anyOf": [{"field": "Microsoft.Compute/imagePublisher", "in": ['esri', 'incredibuild', 'Microsoft Dynamics AX', 'MicrosoftSharepoint', 'MicrosoftVisualStudio', 'MicrosoftWindowsDesktop', 'MicrosoftWindowsServerHPCPack']}, {"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageSKU", "notLike": "2008*"}]}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftSQLServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"}]}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-dsvm"}, {"field": "Microsoft.Compute/imageOffer", "equals": "dsvm-windows"}]}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-ads"}, {"field": "Microsoft.Compute/imageOffer", "in": ['standard-data-science-vm', 'windows-data-science-vm']}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "batch"}, {"field": "Microsoft.Compute/imageOffer", "equals": "rendering-windows2016"}]}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "center-for-internet-security-inc"}, {"field": "Microsoft.Compute/imageOffer", "like": "cis-windows-server-201*"}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "pivotal"}, {"field": "Microsoft.Compute/imageOffer", "like": "bosh-windows-server-*"}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "cloud-infrastructure-services"}, {"field": "Microsoft.Compute/imageOffer", "like": "ad*"}], "allOf": [{"anyOf": [{"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "exists": true}, {"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "exists": true}], {"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "exists": true}, {"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "exists": true}], "allOf": [{"field": "Microsoft.Compute/imageSKU", "notLike": "SQL2008*"}], {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"}]], "{"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftHybridCompute/machines"}, {"field": "Microsoft.Compute/imageOffer", "like": "windows*"}]}], "then": {"effect": "deployIfNotExists", "details": {"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"], "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments"}, "name": "AzureBaseline_AdministrativeTemplatesNetwork", "existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash", "equals": [base64(concat("Enable insecure guest logons;ExpectedValue", ", ", parameters("EnableInsecureGuestLogons")), ", ", "Minimize the number of simultaneous connections to the Internet or a Windows Domain;ExpectedValue", ", ", parameters("AllowSimultaneousConnectionsToTheInternetOrAWindowsDomain")), ", ", "Turn off multicast name resolution;ExpectedValue", ", ", parameters("TurnOffMulticastNameResolution"))], "deployment": {"properties": {"mode": "incremental", "parameters": [{"vmName": {"value": [field(name)]}, "location": {"value": [field(location)]}, "type": {"value": [field(type)]}, "configurationName": {"value": "AzureBaseline_AdministrativeTemplatesNetwork"}, "EnableInsecureGuestLogons": {"value": parameters("EnableInsecureGuestLogons")}, "AllowSimultaneousConnectionsToTheInternetOrAWindowsDomain": {"value": [parameters("AllowSimultaneousConnectionsToTheInternetOrAWindowsDomain")], "TurnOffMulticastNameResolution": {"value": [parameters("TurnOffMulticastNameResolution")]}}, "template": {"$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": [{"vmName": {"type": "string"}, "location": {"type": "string"}, "type": {"type": "string"}, "configurationName": {"type": "string"}, "EnableInsecureGuestLogons": {"type": "string"}, "AllowSimultaneousConnectionsToTheInternetOrAWindowsDomain": {"type": "string"}, "TurnOffMulticastNameResolution": {"type": "string"}], "resources": [{"condition": {"equals": [toLowerCase(parameters("type")), toLowerCase("microsoft.hybridcompute/machines"))], "apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", "name": [concat(para
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Managed Control 1076 - Use Of External Information
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Managed Control 1300 - Identification And Authentication (Organizational
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Managed Control 1036 - Least Privilege | Non-Privileged Access For Nonsecurity
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Audit API Applications that are not using latest supported Java Framework","policyType":"BuiltIn","mode":"All","description":"Use the latest supported Java version for the latest security classes. Using older classes and types can make your application vulnerable."},
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Managed Control 1138 - Audit Generation, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1138" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": "audit" }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/9bfe3727-0a17-471f-a2fe-0d668a8f-eb5f"}, "properties": {"displayName": "Microsoft Managed Control 1138 - Audit Generation"}, "name": "Microsoft.Authorization/policyDefinitions", "id": "/providers/Microsoft.Authorization/policyDefinitions/9bfe3727-0a17-471f-a2fe-0d668a8f-eb5f"}, {"properties": {"displayName": "Ensure that 'Java version' is the latest, if used as a part of the Function app", "policyType": "BuiltIn", "mode": "Indexed", "description": "Periodically, newer versions are released for Java software either due to security flaws or to include additional functionality. Using the latest Java version for Function apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version."}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}, "JavaLatestVersion": {"type": "String", "metadata": {"displayName": "Latest Java version", "description": "Latest supported Java version for App Services"}, "defaultValue": "11.0"}}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "functionapp*"}], "then": {"effect": "audit" }, "details": {"type": "Microsoft.Web/sites/config", "name": "web", "existenceCondition": {"anyOf": [{"allOf": [{"field": "Microsoft.Web/sites/config/web.linuxFxVersion", "notContains": "JAVA"}, {"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}], "allOf": [{"field": "Microsoft.Web/sites/config/web.linuxFxVersion", "like": "concat(\"", parameters("JavaLatestVersion\")\")"}, {"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}], "allOf": [{"field": "Microsoft.Web/sites/config/web.linuxFxVersion", "like": "concat(\"", parameters("JavaLatestVersion\")\")"}, {"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}, {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}, {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}], {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}, {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}], {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}], {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}], {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}], {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}], {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}, {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}], {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}], {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}], {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}], {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}], {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}], {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}], {"allOf": [{"field": "Microsoft.Web/sites/config/web.javaVersion", "equals": ""}]}]}},
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implements this Planning control"}, "metadata": {
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  "category": "Regulatory Compliance",
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  "policyType": "Static",
  "mode": "Indexed",
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      "description": "Microsoft implements this Personnel Security control", 
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        "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1187"}, 
      "policyRule": "if": 
        "allOf": [
          "field": "type",
          "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
        ],
        "value": "false",
        "equals": "true"
      ],
      "then": "effect": "audit"}], 
      "id": "/providers/Microsoft.Authorization/policyDefinitions/9ed5ca00-0e43-434e-a018-7aab91461ba7"} = Open Source Used In SDWan 20.7.1 8703
Show audit results from Windows VMs that are not set to the specified time zone. This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that are not set to the specified time zone.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Microsoft Managed Control 1354 - Incident Response Training

Managed Control 1354 - Incident Response Training implements this Incident Response control.
connected as expected", "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines on which the Log Analytics agent is not connected to the specified workspaces. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": {"version": "1.0.0-preview", "category": "Guest Configuration", "preview": true}, "policyRule": {"if": {"anyOf": [{"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines"}, {"anyOf": [{"field": "Microsoft.Compute/imagePublisher", "in": ["esri", "incredibuild", "MicrosoftDynamicsAX", "MicrosoftSharepoint", "MicrosoftVisualStudio", "MicrosoftWindowsServerHPCPack"]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageSKU", "notLike": "2008*"}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-dsvm"}, {"field": "Microsoft.Compute/imageOffer", "equals": "dsvm-windows*"}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-ads"}, {"field": "Microsoft.Compute/imageOffer", "in": ["standard-data-science-vm", "windows-data-science-vm"]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "batch"}, {"field": "Microsoft.Compute/imageOffer", "equals": "rendering-windows2016"}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "center-for-internet-security-inc"}, {"field": "Microsoft.Compute/imageOffer", "like": "cis-windows-server-201*"}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "pivotal"}, {"field": "Microsoft.Compute/imageOffer", "like": "bosh-windows-server-*"}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "cloud-infrastructure-services"}, {"field": "Microsoft.Compute/imageOffer", "like": "ad*"}], {"allOf": [{"anyOf": [{"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "exists": true}, {"field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType", "like": "Windows*"}], {"anyOf": [{"field": "Microsoft.Compute/imageSKU", "exists": false}, {"allOf": [{"field": "Microsoft.Compute/imageSKU", "notLike": "2008*"}], {"allOf": [{"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"}]})}]}, {"allOf": [{"field": "type", "equals": "Microsoft.HybridCompute/machines"}, {"field": "Microsoft.HybridCompute/imageOffer", "like": "windows*"}]}, {"then": {"effect": "auditIfNotExists", "details": {"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "WindowsLogAnalyticsAgentConnection", "existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus", "equals": "Compliant"}}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/a030a57e-4639-4e8f-a92f33afe7ee", "type": "Microsoft.Authorization/policyDefinitions", "name": "a030a57e-4639-4e8f-a92f33afe7ee", {"properties": {"displayName": "Microsoft Managed Control 1145 - Security Assessments", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Security Assessment and Authorization control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1145"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": audit}}, "id": "/providers/Microsoft.Authorizations/policyDefinitions/a0724970-9c75-4a64-a225-a28002953f28", "type": "Microsoft.Authorization/policyDefinitions", "name": "a0724970-9c75-4a64-a225-a28002953f28", {"properties": {"displayName": "Allowed resource types", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy enables you to specify the resource types that your organization can deploy. Only resource types that support "tags" and "location" will be affected by this policy. To restrict all resources please duplicate this policy"}}}}}
and change the "mode" to "All", "metadata": {"version": "1.0.0", "category": "General"}, "parameters": {"listOfResourceTypesAllowed": {"type": "Array", "metadata": {"description": "The list of resource types that can be deployed.", "displayName": "Allowed resource types", "strongType": "resourceTypes"}}, "policyRule": {"if": {"not": {"field": "type", "in": ["parameters\"listOfResourceTypesAllowed\"]}}, "then": {"effect": "deny"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a08ec9090-254a-4555-9bf5-e42af04b5c55", "type": "Microsoft.Authorization/policyDefinitions\"name": "a08ec9090-254a-4555-9bf5-e42af04b5c55"}, "Managed Control 1245 - Contingency Plan", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1245"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a0e45314-57b8-4623-80cd-bbb561f59516", "type": "Microsoft.Authorization/policyDefinitions\"name": "a0e45314-57b8-4623-80cd-bbb561f59516"}, {"properties": {"displayName": "Microsoft Managed Control 1406 - Maintenance Tools | Inspect Media", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance Control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1406"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a0f5339c-9292-43aa-a0bc-d27c6b8e30aa", "type": "Microsoft.Authorization/policyDefinitions\"name": "a0f5339c-9292-43aa-a0bc-d27c6b8e30aa"}, {"properties": {"displayName": "Security Center standard pricing tier should be selected", "policyType": "BuiltIn", "mode": "All", "description": "The standard pricing tier enables threat detection for networks and virtual machines, providing threat intelligence, anomaly detection, and behavior analytics in Azure Security Center", "metadata": {"version": "1.0.0", "category": "Security Center"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Security/pricings"}, {"field": "Microsoft.Security/pricings/pricingTier", "exists": true}, {"field": "Microsoft.Security/pricings/pricingTier", "notEquals": "Standard"}], "then": {"effect": ["parameters\"effect\"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a1181c5f-672a-477a-979a-7d58aa086233", "type": "Microsoft.Authorization/policyDefinitions\"name": "a1181c5f-672a-477a-979a-7d58aa086233"}, {"properties": {"displayName": "Service Bus namespace\"policyType": "BuiltIn", "mode": "All", "description": "Service Bus clients should not use a namespace level access policy that provides access to all queues and topics in a namespace. To align with the least privilege security model, you should create access policies at the entity level for queues and topics to provide access to only the specific entity\"}, "metadata": {"version": "1.0.1", "category": "Service Bus"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match"}, "allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.ServiceBus/namespaces/authorizationRules"}], "field": "name", "notEquals": ''RootMa
Managed Control 1265 - Contingency Plan Testing | Alternate Processing

- **Policy Type:** Static, Mode: Indexed, Description: Microsoft implements this Contingency Planning control. It applies to any resources which are missing the required diagnostic settings when they are created or updated.

- **Policy Definition Id:** /providers/Microsoft.Authorization/policyDefinitions/a1817ec0-a368-432a-8057-8371e17ac6ee

- **Name:** Microsoft Managed Control 1265 - Contingency Plan Testing | Alternate Processing

- **Display Name:** Deploy Diagnostic Settings for Logic Apps to Event Hub

- **Policy Type:** BuiltIn, Mode: Indexed, Description: Deploys the diagnostic settings for Logic Apps to stream to a regional Event Hub when any Logic Apps which is missing this diagnostic settings is created or updated. The metadata includes version 2.0.0. The policy applies to all resources in a subscription/resource group.

- **Policy Definition Id:** /providers/Microsoft.Authorization/policyDefinitions/a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Name:** Microsoft Authorization/policyDefinitions, name: a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Properties:** displayName: Deploy Diagnostic Settings for Logic Apps to Event Hub

- **Policy Rule:**
  - **If:** All of:
    - Type: Microsoft.Resources/subscriptions
    - Location: [parameters('eventHubLocation')]
  - **Then:** Effect: [parameters('effect')]

- **Event Hub Authorization Rule Id:**
  - Description: The Event Hub authorization rule.
  - Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. It applies to all Logic Apps in the location that the Event Hub resides in.

- **Policy Definition Id:** /providers/Microsoft.Authorization/policyDefinitions/a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Name:** Microsoft Authorization/policyDefinitions, name: a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Properties:** displayName: Deploy Diagnostic Settings for Logic Apps to Event Hub

- **Policy Rule:**
  - **If:** All of:
    - Type: Microsoft.Resources/subscriptions/resourceGroups
    - Location: [parameters('eventHubLocation')]
  - **Then:** Effect: [parameters('effect')]

- **Event Hub Authorization Rule Id:**
  - Description: The Event Hub authorization rule.
  - Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. It applies to all Logic Apps in the location that the Event Hub resides in.

- **Policy Definition Id:** /providers/Microsoft.Authorization/policyDefinitions/a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Name:** Microsoft Authorization/policyDefinitions, name: a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Properties:** displayName: Deploy Diagnostic Settings for Logic Apps to Event Hub

- **Policy Rule:**
  - **If:** All of:
    - Type: Microsoft.Resources/subscriptions/resourceGroups
    - Location: [parameters('eventHubLocation')]
  - **Then:** Effect: [parameters('effect')]

- **Event Hub Authorization Rule Id:**
  - Description: The Event Hub authorization rule.
  - Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. It applies to all Logic Apps in the location that the Event Hub resides in.

- **Policy Definition Id:** /providers/Microsoft.Authorization/policyDefinitions/a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Name:** Microsoft Authorization/policyDefinitions, name: a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Properties:** displayName: Deploy Diagnostic Settings for Logic Apps to Event Hub

- **Policy Rule:**
  - **If:** All of:
    - Type: Microsoft.Resources/subscriptions/resourceGroups
    - Location: [parameters('eventHubLocation')]
  - **Then:** Effect: [parameters('effect')]

- **Event Hub Authorization Rule Id:**
  - Description: The Event Hub authorization rule.
  - Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. It applies to all Logic Apps in the location that the Event Hub resides in.

- **Policy Definition Id:** /providers/Microsoft.Authorization/policyDefinitions/a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Name:** Microsoft Authorization/policyDefinitions, name: a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Properties:** displayName: Deploy Diagnostic Settings for Logic Apps to Event Hub

- **Policy Rule:**
  - **If:** All of:
    - Type: Microsoft.Resources/subscriptions/resourceGroups
    - Location: [parameters('eventHubLocation')]
  - **Then:** Effect: [parameters('effect')]

- **Event Hub Authorization Rule Id:**
  - Description: The Event Hub authorization rule.
  - Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. It applies to all Logic Apps in the location that the Event Hub resides in.

- **Policy Definition Id:** /providers/Microsoft.Authorization/policyDefinitions/a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Name:** Microsoft Authorization/policyDefinitions, name: a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Properties:** displayName: Deploy Diagnostic Settings for Logic Apps to Event Hub

- **Policy Rule:**
  - **If:** All of:
    - Type: Microsoft.Resources/subscriptions/resourceGroups
    - Location: [parameters('eventHubLocation')]
  - **Then:** Effect: [parameters('effect')]

- **Event Hub Authorization Rule Id:**
  - Description: The Event Hub authorization rule.
  - Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. It applies to all Logic Apps in the location that the Event Hub resides in.

- **Policy Definition Id:** /providers/Microsoft.Authorization/policyDefinitions/a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Name:** Microsoft Authorization/policyDefinitions, name: a18adb5b-1db6-4a5b-901a-7d3797d12972

- **Properties:** displayName: Deploy Diagnostic Settings for Logic Apps to Event Hub

- **Policy Rule:**
  - **If:** All of:
    - Type: Microsoft.Resources/subscriptions/resourceGroups
    - Location: [parameters('eventHubLocation')]
  - **Then:** Effect: [parameters('effect')]

- **Event Hub Authorization Rule Id:**
  - Description: The Event Hub authorization rule.
  - Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. It applies to all Logic Apps in the location that the Event Hub resides in.
Show audit results from Windows VMs configurations in "Administrative Templates - System". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Administrative Templates - System". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Managed Control 1512 - Development Security Architecture and Design

Microsoft

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Managed Control 1612 - Developer Security Architecture and Design

Microsoft

this System and Services Acquisition control, metadata:

Managed Control 1197 - Configuration Change Control | Test / Validate / Document Changes

Microsoft

this Configuration Management control, metadata:

Managed Control 1275 - Alternate Processing Site | Separation From Primary Site

Microsoft

this Contingency Planning control, metadata:

Managed Control 1690 - Information System Monitoring | System-Wide Intrusion Detection System

Microsoft

implements this System and Information Integrity control

Managed Control 1410 - Maintenance Tools | Prevent Unauthorized Removal

Microsoft

implements this Maintenance control, metadata:

Open Source Used In SDWan
Managed Control 1059 - Remote Access

Microsoft implements this Access Control control. Microsoft implements this Access Control control.

Policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Virtual machines that are not joined to the specified domain. This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Virtual machines that are not joined to the specified domain.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Microsoft Managed Control 1664 - Protection Of Information At Rest | Cryptographic Protection

Microsoft implements this System and Communications Protection control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1664"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a2c66299-9017-4d95-8040-8bdbf7901d52", "type": "Microsoft.Authorization/policyDefinitions", "name": "a2c66299-9017-4d95-8040-8bdbf7901d52"}, {"properties": {"displayName": "Microsoft Managed Control 1664 - Protection Of Information At Rest | Cryptographic Protection", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control"}, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1664"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a2c66299-9017-4d95-8040-8bdbf7901d52", "type": "Microsoft.Authorization/policyDefinitions", "name": "a2c66299-9017-4d95-8040-8bdbf7901d52"}, {"properties": {"displayName": "Microsoft Managed Control 1522 - Contingency Planning | Capacity Planning"}, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1522"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a2c66299-9017-4d95-8040-8bdbf7901d52", "type": "Microsoft.Authorization/policyDefinitions", "name": "a2c66299-9017-4d95-8040-8bdbf7901d52"}, {"properties": {"displayName": "Microsoft Managed Control 1252 - Contingency Planning | Capacity Planning"}, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1252"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a2c66299-9017-4d95-8040-8bdbf7901d52", "type": "Microsoft.Authorization/policyDefinitions", "name": "a2c66299-9017-4d95-8040-8bdbf7901d52"}, {"properties": {"displayName": "Microsoft Managed Control 1238 - User-Installed Software"}, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1238"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a2c66299-9017-4d95-8040-8bdbf7901d52", "type": "Microsoft.Authorization/policyDefinitions", "name": "a2c66299-9017-4d95-8040-8bdbf7901d52"}, {"properties": {"displayName": "Microsoft Managed Control 1693 - Information System Monitoring | System-Generated Alerts"}, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1693"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a2c66299-9017-4d95-8040-8bdbf7901d52", "type": "Microsoft.Authorization/policyDefinitions", "name": "a2c66299-9017-4d95-8040-8bdbf7901d52"}, {"properties": {"displayName": "Audit usage of custom RBAC rules", "policyType": "BuiltIn", "mode": "All", "description": "Audit built-in roles such as "Owner, Contributor, Reader" instead of custom RBAC roles, which are error prone. Using custom roles is treated as an exception and requires a rigorous review and threat assessment."}}
Application should only be accessible over HTTPS, "policyType": "BuiltIn", "mode": "Indexed", "description": "Use of HTTPS ensures server/service authentication and protects data in transit from network layer eavesdropping attacks.", "parameters": {"effect": "Audit", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "app*"}, {"field": "Microsoft.Web/sites/httpsOnly", "equals": "false"}]}, "then": {"effect": ["parameters(''effect'')"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a4af4a39-4135-47fb-b175-47fbdf85311d", "type": "Microsoft.Authorization/policyDefinitions", "name": "a4af4a39-4135-47fb-b175-47fbdf85311d"}, {"properties": {"displayName": "Microsoft Managed Control 1617 - Application Partitioning", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1617"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Resources/subscriptions"}, {"field": "Microsoft.Resources/subscriptions/resourceGroups"}], "value": "false", "equals": "true"}, "then": {"effect": ["parameters(''effect'')"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a631d8f5-eb81-4f9d-9ee1-74431371e4a3", "type": "Microsoft.Authorization/policyDefinitions", "name": "a631d8f5-eb81-4f9d-9ee1-74431371e4a3"}, {"properties": {"displayName": "Auditing on SQL server should be enabled", "policyType": "BuiltIn", "mode": "Indexed", "description": "Auditing on your SQL Server should be enabled to track database activities across all databases on the server and save them in an audit log.", "parameters": {"effect": "AuditIfNotExists", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}, "setting": {"type": "String", "metadata": {"displayName": "Desired Auditing setting"}, "allowedValues": ["enabled", "disabled"], "defaultValue": "enabled"}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Sql/servers"}, "then": ["effect": ["parameters(''effect'')"], "details": {"type": "Microsoft.Sql/servers/auditingSettings", "name": "default", "existsenceCondition": {"field": "Microsoft.Sql/auditingSettings/state", "equals": true}, "parameters(''setting'')"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a6f8f4a358-5bf4-4ad7-ba82-2c2df41ce5e9", "type": "Microsoft.Authorization/policyDefinitions", "name": "a6f8f4a358-5bf4-4ad7-ba82-2c2df41ce5e9"}, {"properties": {"displayName": "The Log Analytics agent should be installed on virtual machines", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any Windows/Linux virtual machines if the Log Analytics agent..."}}

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is not
installed.","metadata":{"version":"1.0.0","category":"Monitoring"},"parameters":{"effect":{"type":"String","metada
ta":{"displayName":"Effect","description":"Enable
or disable the execution of the
policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}},"policyRule":{"if":
{"field":"type","equals":"Microsoft.Compute/virtualMachines"},"then":{"effect":"[parameters(''effect'')]","details":{
"type":"Microsoft.Compute/virtualMachines/extensions","existenceCondition":{"allOf":[{"field":"Microsoft.Compu
mpute/virtualMachines/extensions/type","in":["MicrosoftMonitoringAgent","OmsAgentForLinux"]},{"field":"Micr
osoft.Compute/virtualMachines/extensions/provisioningState","equals":"Succeeded"},{"field":"Microsoft.Compute/
virtualMachines/extensions/settings.workspaceId","exists":"true"}]}}}}},"id":"/providers/Microsoft.Authorization/p
olicyDefinitions/a70ca396-0a34-413a-88e1b956c1e683be","type":"Microsoft.Authorization/policyDefinitions","name":"a70ca396-0a34-413a-88e1b956c1e683be"},{"properties":{"displayName":"Microsoft
Managed Control 1431 - Media Storage","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Media Protection control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1431"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/a7173c52-2b99-4696-a57663dd5f970ef4","type":"Microsoft.Authorization/policyDefinitions","name":"a7173c52-2b99-4696-a57663dd5f970ef4"},{"properties":{"displayName":"Microsoft
Managed Control 1644 - Cryptographic Key Establishment And Management |
Availability","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this System and Communications Protection
control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1644"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/a7211477-c970-446b-b4af062f37461147","type":"Microsoft.Authorization/policyDefinitions","name":"a7211477-c970-446b-b4af062f37461147"},{"properties":{"displayName":"Microsoft
Managed Control 1027 - Access
Enforcement","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1027"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/a76ca9b0-3f4a-4192-9a38b25e4f8ae48c","type":"Microsoft.Authorization/policyDefinitions","name":"a76ca9b0-3f4a-4192-9a38b25e4f8ae48c"},{"properties":{"displayName":"DDoS
Protection Standard should be enabled","policyType":"BuiltIn","mode":"All","description":"DDoS
protection standard should be enabled for all virtual networks with a subnet
that is part of an application gateway with a public IP.","metadata":{"version":"1.0.1","category":"Security
Center"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable
or disable the execution of the
policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}},"policyRule":{"if":
{"field":"type","equals":"microsoft.network/virtualNetworks"},"then":{"effect":"[parameters(''effect'')]","details":{"

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type":"Microsoft.Security/complianceResults","name":"EnableDDoSProtection","existenceCondition":{"field":"Microsoft.Security/complianceResults/resourceStatus","in":["OffByPolicy","Healthy"]},"id":/providers/Microsoft.Authorization/policyDefinitions/a7aca53f-2ed4-4466-a25e-0b45ade68efd,"type":"Microsoft.Authorization/policyDefinitions","name":a7aca53f-2ed4-4466-a25e-0b45ade68efd],"properties":{"displayName":"Microsoft Managed Control 1570 - Acquisition Process","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{"version":1.0.0,"category":"Regulatory Compliance"},"additionalMetadataId="/providers/Microsoft.PolicyInsights/policyMetadata/ACF1570"},"policyRule":{"if":{"allOf": [{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":false,"equals":true} ]},"then":{"effect":audit}}},"id":/providers/Microsoft.Authorization/policyDefinitions/a7fcf38d-bb09-4600-be7d-825046eb162a,"type":"Microsoft.Authorization/policyDefinitions","name":a7fcf38d-bb09-4600-be7d-825046eb162a],"properties":{"displayName":"Microsoft Managed Control 1295 - Information System Recovery And Reconstitution","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Contingency Planning control","metadata":{"version":1.0.0,"category":"Regulatory Compliance"},"additionalMetadataId="/providers/Microsoft.PolicyInsights/policyMetadata/ACF1295"},"policyRule":{"if":{"allOf": [{"field":"type","equals":Microsoft.DataLakeStore/accounts"}, {"field":Microsoft.DataLakeStore/accounts/encryptionState","equals":Disabled} ]},"then":{"effect":deny}}},"id":/providers/Microsoft.Authorization/policyDefinitions/a7ff3161-0087-490a-9ad9-ad6217f4f43a,"type":"Microsoft.Authorization/policyDefinitions","name":a7ff3161-0087-490a-9ad9-ad6217f4f43a],"properties":{"displayName":Microsoft Managed Control 1283 - Telecommunications Services | Separation Of Primary

Monitored unencrypted SQL databases in Azure Security Center","policyType":"BuiltIn","mode":"All","description":"Unencrypted SQL databases will be monitored by Azure Security Center as recommendations. This policy is deprecated and replaced by the following policy: Transparent Data Encryption on SQL databases should be enabled"},"metadata":{"version":1.0.0-deprecated"},"category":"Security Center","deprecated":true},"parameters":{"effect":{"type":"String","metadata":{"displayName":"[Deprecated]: Effect","description":"Enable or disable the execution of the policy"},"allowedValues": ["AuditIfNotExists","Disabled"],"defaultValue":AuditIfNotExists},"policyRule":{"if":{"field":type,"in":["Microsoft.SQL/servers/databases"]},"then":{"effect":parameters('effect')},"details":{"type":Microsoft.Security/complianceResults,"name":"encryption","existenceCondition":{"field":"Microsoft.Security/complianceResults/resourceStatus","in":["OffByPolicy","Healthy"]},"id":/providers/Microsoft.Authorization/policyDefinitions/a8bef009-a5c9-4d0f-90d7-6018734e8a16,"type":"Microsoft.Authorization/policyDefinitions","name":a8bef009-a5c9-4d0f-90d7-6018734e8a16"},"properties":{"displayName":"Microsoft Managed Control 1283 - Telecommunications Services | Separation Of Primary"}}
/ Alternate Providers", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1283" }, "policyRule": { "if": { "allOf": [{ "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": "false", "equals": "true" }] }, "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/a9172e76-7f56-46e9-93bf-75d69db5491", "type": "Microsoft.Authorization/policyDefinitions", "name": "a9172e76-7f56-46e9-93bf-75d69db5491" }, { "properties": { "displayName": "Microsoft Managed Control 1400 - Controlled Maintenance", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1400" }, "policyRule": { "if": { "allOf": [{ "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": "false", "equals": "true" }] }, "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/a96d5098-a604-4cdf-90b1-ef6449a27424", "type": "Microsoft.Authorization/policyDefinitions", "name": "a96d5098-a604-4cdf-90b1-ef6449a27424" }, { "properties": { "displayName": "Microsoft Managed Control 1118 - Audit Review, Analysis, And Reporting | Correlate Audit Repositories", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1118" }, "policyRule": { "if": { "allOf": [{ "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": "false", "equals": "true" }] }, "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/a96f743d-a195-420d-983a-08aa06bc441e", "type": "Microsoft.Authorization/policyDefinitions", "name": "a96f743d-a195-420d-983a-08aa06bc441e" }, { "properties": { "displayName": "Microsoft Managed Control 1199 - Configuration Change Control | Cryptography Management", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1199" }, "policyRule": { "if": { "allOf": [{ "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": "false", "equals": "true" }] }, "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/a9a08d1c-09b1-48f1-90ea-0299bdf7111e", "type": "Microsoft.Authorization/policyDefinitions", "name": "a9a08d1c-09b1-48f1-90ea-0299bdf7111e" }, { "properties": { "displayName": "[Preview]: Show audit results from Windows VMs configurations in 'System Audit Policies - Detailed Tracking'" }, "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: 'System Audit Policies - Detailed Tracking'. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": { "version": "1.0.0-preview", "category": "Guest Configuration", "preview": true }, "policyRule": { "if": { "anyOf": [{ "allOf": [{ "field": "type", "equals": "Microsoft.Compute/virtualMachines" }, { "anyOf": [{ "field": "Microsoft.Compute/imagePublisher", "in": ["esri", "incredibuild", "MicrosoftDynamicsAX", "MicrosoftSharepoint", "MicrosoftVisualStudio", "MicrosoftWindowsDesktop", "MicrosoftWindowsServerHPCPack"] }, { "allOf": [{ "field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer" }, { "field": "Microsoft.Compute/imageSKU", "notLike": "2008*" } ] } ] } ] }, "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/Sheet1", "type": "Microsoft.Authorization/policyDefinitions", "name": "Sheet1" } }

Then:

* **Microsoft.HybridCompute/machines**
  
Effect: **DeployIfNotExists**

Details:

**type**: Microsoft.HybridCompute/machines

**resourceGroupName**: networkWatcherRG

**existenceCondition**: [field("location")]

**roleDefinitionIds**: ["/providers/microsoft.authorization/roleDefinitions/4d97b98b-1d4f-4787-a291-c67834d212e7"]

Policy creates a network watcher resource in regions with virtual networks.

You need to ensure existence of a resource group named networkWatcherRG, which will be used to deploy network watcher instances.

Policy Rule:

If:

- **type**: Microsoft.HybridCompute/machines,
- **location**: [field("location")]

Then:

Effect: **DeployIfNotExists**

Details:

- **type**: Microsoft.HybridCompute/machines
- **resourceGroupName**: networkWatcherRG
- **existenceCondition**: [field("location")]

Managed Control 1511 - Personnel Screening

Policy Type: **Static**

Mode: **Indexed**

Description: **Microsoft implements this Personnel Security control**, metadata:

- **version**: "1.0.0"
- **category**: "Regulatory Compliance"
- **additionalMetadataId**: [providers/Microsoft.PolicyInsights/policyMetadata/ACF1511]

Policy Rule:

If:

AllOf:

- **type**: "Microsoft.Resources/subscriptions/subscriptions",**resourceGroups**]

Then:

Effect: **audit**

Details:

- **type**: Microsoft.GuestConfiguration/guestConfigurationAssignments
- **name**: "AzureBaseline_SystemAuditPoliciesDetailedTracking"
- **existenceCondition**: [field("Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus","equals","Compliant")]

Id:

/providers/Microsoft.Authorization/policyDefinitions/a9da3f5-4b81-9116-0b0f2fe67e8

Properties:

- **displayName**: Deploy network watcher when virtual networks are created
- **policyType**: "BuiltIn"
- **mode**: "Indexed"
- **description**: This policy creates a network watcher resource in regions with virtual networks.

You need to ensure existence of a resource group named networkWatcherRG, which will be used to deploy network watcher instances.

Metadata:

- **version**: "1.0.0"
- **category**: "Network"
- **parameters**: {}
MFA should be enabled on accounts with owner permissions on your subscription. Multi-Factor Authentication (MFA) should be enabled for all subscription accounts with owner permissions to prevent a breach of accounts or resources.

Policy Center

- **Microsoft.Authorization/policyDefinitions/a9eae324-d327-4539-9293-b48e122465f8**
  - **displayName**: MFA
  - **policyType**: BuiltIn
  - **mode**: All
  - **description**: Multi-Factor Authentication (MFA) should be enabled for all subscription accounts with owner permissions to prevent a breach of accounts or resources.

- **Microsoft.Authorization/policyDefinitions/b48e122465f8**
  - **displayName**: MFA should be enabled on accounts with owner permissions on your subscription.

**Security Center**

- **Microsoft.Authorization/policyDefinitions/a9eae324-d327-4539-9293-b48e122465f8**
  - **displayName**: MFA should be enabled on accounts with owner permissions on your subscription.

- **Microsoft.Authorization/policyDefinitions/b48e122465f8**
  - **displayName**: MFA should be enabled on accounts with owner permissions on your subscription.

**App Service**

- **Microsoft.Authorization/policyDefinitions/aa633080-8b72-40c4-a2d7-d00c03e80bed**
  - **displayName**: Ensure that Register with Azure Active Directory is enabled on WEB App.
  - **policyType**: BuiltIn
  - **mode**: Indexed
  - **description**: Managed service identity in App Service makes the app more secure by eliminating secrets from the app, such as credentials in the connection strings. When registering with Azure Active Directory in the app service, the app will connect to other Azure services securely without the need of username and passwords.

**Managed Control 1539 - Security Categorization**

- **Microsoft.Authorization/policyDefinitions/aa633080-8b72-40c4-a2d7-d00c03e80bed**
  - **displayName**: Ensure that Register with Azure Active Directory is enabled on WEB App.

**Managed Control 1006 - Account Management**

- **Microsoft.Authorization/policyDefinitions/aa633080-8b72-40c4-a2d7-d00c03e80bed**
  - **displayName**: Ensure that Register with Azure Active Directory is enabled on WEB App.

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Managed Control 1461 - Monitoring Physical Compliance

that "PHP version" is the latest, if used as a part of the Function app.

Parameters:

- **PHPLatestVersion**: The latest supported PHP version for App Services.
- **defaultValue**: "Latest PHP version"
- **description**: "Latest supported PHP version for App Services"
Microsoft implements this Identification and Authentication control.

Audit SQL servers without Advanced Data Security by enabling Advanced data security on your SQL servers.

Audit SQL managed instances without Advanced Data Security by enabling Advanced data security on your SQL managed instances.

Enable Azure Security Center on your subscription to identify existing subscriptions not monitored by Azure Security Center (ASC). When subscriptions not monitored by ASC are registered to the free pricing tier, they may be considered compliant. To register newly created subscriptions, open the compliance tab, select the relevant non-compliant assignment and create a remediation task.
When you have one or more new subscriptions you want to monitor with Security Center, the policyRule:

- if: "field": "type", "equals": "Microsoft.Resources/subscriptions"
- then:
  - effect: "deployIfNotExists"
  - details:
    - type: "Microsoft.Security/pricings"
    - name: "VirtualMachines"
    - deploymentScope: "subscription"
    - existenceScope: "subscription"
    - roleDefinitionIds:
      - /providers/Microsoft.Authorization/roleDefinitions/fb1c8493-542b-48eb-b624-b4e8fe662acd
    - existenceCondition:
      - anyof:
        - "field": "Microsoft.security/pricings/pricingTier", "equals": "standard"
        - "field": "Microsoft.security/pricings/pricingTier", "equals": "free"
    - deployment:
      - location: "westeurope"
    - properties:
      - mode: "incremental"
      - template:
        - contentVersion: "1.0.0.0"
        - variables: {}
        - resources:
          - type: "Microsoft.Security/pricings"
            apiVersion: "2018-06-01"
            name: "VirtualMachines"
            properties:
              - "pricingTier": "free"
              - "outputs": {}
        - id: /providers/Microsoft.Authorization/policyDefinitions/ac076320-ddcf-4066-b451-6154267e8ad2
  - type: "Microsoft.Authorization/policyDefinitions"
    name: "ac076320-ddcf-4066-b451-6154267e8ad2"
    - properties:
      - displayName: "Microsoft Managed Control 1056 - Session Termination | User-Initiated Logouts / Message Displays"
      - policyType: "Static"
      - mode: "Indexed"
      - description: "Microsoft implements this Access Control control"
      - metadata:
        - version: "1.0.0"
        - category: "Regulatory Compliance"
        - additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1056
        - policyRule:
          - if:
            - allOf:
              - "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
              - "value": "false"
              - "equals": "true"
          - then:
            - "effect": "audit"
          - id: /providers/Microsoft.Authorization/policyDefinitions/ac43352f-df83-4694-8738-cfce549fd08d
    - type: "Microsoft.Authorization/policyDefinitions"
    name: "ac43352f-df83-4694-8738-cfce549fd08d"
    - properties:
      - displayName: "[Preview]: Role-Based Access Control (RBAC) should be used on Kubernetes Services"
      - policyType: "BuiltIn"
      - mode: "All"
      - description: "To provide granular filtering on the actions that users can perform, use Role-Based Access Control (RBAC) to manage permissions in Kubernetes Service Clusters and configure relevant authorization polices."
      - metadata:
        - version: "1.0.1-preview"
        - category: "Security Center"
        - preview: true
        - parameters:
          - effect: "String"
          - metadata:
            - displayName: "[Preview]: Effect"
            - description: "Enable or disable the execution of the policy"
            - allowedValues:
              - "Audit"
              - "Disabled"
            - defaultValue: "Audit"
        - policyRule:
          - if:
            - allOf:
              - "field": "type", "equals": "Microsoft.ContainerService/managedClusters"
              - "anyOf:
                - "field": "Microsoft.ContainerService/managedClusters/enableRBAC", "exists": false
                - "field": "Microsoft.ContainerService/managedClusters/enableRBAC", "equals": false
            - then:
              - "effect": (parameters('effect'))
          - id: /providers/Microsoft.Authorization/policyDefinitions/ac419c2-fa67-49b4-8ae5-0b2e78c49457
    - type: "Microsoft.Authorization/policyDefinitions"
    name: "ac419c2-fa67-49b4-8ae5-0b2e78c49457"
    - properties:
      - displayName: "[Deprecated]: Allow resource creation if "environment" tag value in allowed values"
      - policyType: "BuiltIn"
      - mode: "Indexed"
      - description: "Allows resource creation if the "environment" tag is set to one of the following values: production, dev, test, staging"
      - metadata:
        - version: "1.0.0-deprecated"
        - category: "Tags"
        - description: "Allows resource creation if the "environment" tag is set to one of the following values: production, dev, test, staging"
        - allowedValues:
          - "environment"
          - "production"
          - "dev"
          - "test"
          - "staging"
        - defaultValue:
          - "Deny"
        - id: /providers/Microsoft.Authorization/policyDefinitions/ac7e5fc0-c029-4b12-91d4-a8500ce697f9
    - type: "Microsoft.Authorization/policyDefinitions"
    name: "ac7e5fc0-c029-4b12-91d4-a8500ce697f9"
    - properties:
      - displayName: "Microsoft Managed Control 1569 - Acquisition"
Open Source Used In SDWan 20.7.1

Microsoft implements this System and Services Acquisition control.

Microsoft implements this Physical and Environmental Protection control.

Microsoft implements this Access Control control.

This Access Control control is used in the Contingency Planning control.

This policy audits any SQL Server not configured to use a virtual network service endpoint.
Managed Control 1598 - Developer Configuration

Microsoft implements this System and Services Acquisition control. 

Microsoft Managed Control 1598 - Developer Configuration

Microsoft implements this System and Services Acquisition control. 

Microsoft Managed Control 1413 - Nonlocal Maintenance

Microsoft implements this Nonlocal Maintenance control. 

Microsoft Managed Control 1710 - Security Function

Microsoft implements this Security Function control. 

Monitor missing Endpoint Protection in Azure Security Center

Microsoft implements this System and Information Integrity control. 

Open Source Used In SDWAN 20.7.1
Monitor unaudited SQL servers in Azure Security Center

SQL servers which don’t have SQL auditing turned on will be monitored by Azure Security Center as recommendations. This policy is deprecated and replaced by the following policy:

 Auditing should be enabled on advanced data security settings on SQL Servers.

This System and Communications Protection control

Microsoft implements this System and Information Integrity control

This policy audits the activity log if the retention is not set for 365 days or forever (retention days set to 0).

without an installed Endpoint Protection agent will be monitored by Azure Security Center as recommendations.

This policy implements this System and Information Integrity control.
Managed Control 1429 - Media Marking

displayName":"Microsoft Managed Control 1429 - Media Marking","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Media Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1429"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}}

Managed Control 1711 - Security Function Verification

displayName":"Microsoft Managed Control 1711 - Security Function Verification","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1711"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}}

Managed Control 1571 - Acquisition Process

displayName":"Microsoft Managed Control 1571 - Acquisition Process","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1571"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Security/complianceResults"]},{"value":"false"}]},"then":{"effect":"audit"}}}
Show audit results from Linux VMs that do not have the passwd file permissions set to 0644, "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Linux virtual machines that do not have the passwd file permissions set to 0644.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Managed Control 1091 - Security Awareness Training

Microsoft implements this Awareness and Training control, metadata: "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1091", "policyRule": 
{"if": 
{"allOf": 

["field": "type", "in": ["Microsoft/Resources/subscriptions", "Microsoft/Resources/subscriptions/resourceGroups"]}], 
"value": "false", 
"equals": "true"}], 
"then": 
{"effect": "audit"}
}, 

"id": 
"/providers/Microsoft.Authorization/policyDefinitions/b19454ca-0d70-42c0-acf5-ea1c1e5726d1", 
"type": "Microsoft.Authorization/policyDefinitions", 
"name": "b19454ca-0d70-42c0-acf5-ea1c1e5726d1", 
"properties": 
{"displayName": "Microsoft Managed Control 1091 - Security Awareness Training", 
"policyType": "Static", 
"mode": "Indexed", 
"description": "Microsoft implements this Awareness and Training control, metadata: "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1091", "policyRule": 
{"if": 
{"allOf": 

["field": "type", "in": ["Microsoft/Resources/subscriptions", "Microsoft/Resources/subscriptions/resourceGroups"]}], 
"value": "false", 
"equals": "true"}], 
"then": 
{"effect": "audit"}
}, 

"id": 
"/providers/Microsoft.Authorization/policyDefinitions/b23bd715-5d1c-4e5c-9759-9c8d7926ed9d", 
"type": "Microsoft.Authorization/policyDefinitions", 
"name": "b23bd715-5d1c-4e5c-9759-9c8d7926ed9d", 
"properties": 
{"displayName": "Microsoft Managed Control 1078 - Use Of External Information Systems | Limits On Authorized Use", 
"policyType": "Static", 
"mode": "Indexed", 
"description": "Microsoft implements this Access Control control, metadata: "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1078", "policyRule": 
{"if": 
{"allOf": 

["field": "type", "in": ["Microsoft/Resources/subscriptions", "Microsoft/Resources/subscriptions/resourceGroups"]}], 
"value": "false", 
"equals": "true"}], 
"then": 
{"effect": "audit"}
}, 

"id": 
"/providers/Microsoft.Authorization/policyDefinitions/b26f8610-e615-47c2-abd6-c00b28b50e", 
"type": "Microsoft.Authorization/policyDefinitions", 
"name": "b26f8610-e615-47c2-abd6-c00b28b50e", 
"properties": 
{"displayName": "All authorization rules except RootManageSharedAccessKey should be removed from Event Hub namespace", 
"policyType": "BuiltIn", 
"mode": "All", 
"description": "Event Hub clients should not use a namespace level access policy that provides access to all queues and topics in a namespace. To align with the least privilege security model, you should create access policies at the entity level for queues and topics to provide access only to the specific entity", 
"metadata": 
{"version": "1.0.1", 
"category": "Event Hub", 
"parameters": 
{"effect": 
{"type": "String", 
"metadata": 
{"displayName": "Effect", 
"description": "The effect determines what happens when the policy rule is evaluated to match"}, 
"allowedValues": ["Audit", "Deny", "Disabled"], 
"defaultValue": "Audit"}], 
"policyRule": 
{"if": 
{"allOf": 

["field": "type", "equals": "Microsoft.EventHub/namespaces/authorizationRules"], 
"field": "name", 
"notEquals": "RootManageSharedAccessKey"}], 
"then": 
{"effect": 
{"parameters": ["effect"]}], 
"id": 
"/providers/Microsoft.Authorization/policyDefinitions/b78a460-7cfc-4451-8294-c4cc40a940d7", 
"type": "Microsoft.Authorization/policyDefinitions", 
"name": "b78a460-7cfc-4451-8294-c4cc40a940d7", 
"properties": 
{"displayName": "Inherit a tag from the subscription", 
"policyType": "BuiltIn", 
"mode": "Indexed", 
"description": "Adds or replaces the specified tag and value from the containing subscription when any resource is created or updated. Existing resources can be remediated by..."
Open Source Used In SDWan

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Show audit results from Windows VMs configurations in "System Audit Policies - Logon-Logoff". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Logon-Logoff". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol. For additional details, see https://aka.ms/gcpol/preview.
Managed Control 1041 - Least Privilege | Privilege Levels For Code Execution

- **Microsoft Managed Control 1041 - Least Privilege**
  - **Policy Type:** Static
  - **Mode:** Indexed
  - **Description:** Microsoft implements this Access Control control.
  - **Metadata:**
    - **Version:** 1.0.0
    - **Category:** Regulatory Compliance
    - **Additional Metadata Id:** /providers/Microsoft.PolicyInsights/policyMetadata/ACF1041
  - **Policy Rule:**
    - **If:**
      - **All Of:**
        - **Field:** type
        - **Value:** Microsoft.Resources/subscriptions
        - **Equals:** true
    - **Then:**
      - **Effect:** audit

Managed Control 1380 - Incident Response Plan

- **Microsoft Managed Control 1380 - Incident Response Plan**
  - **Policy Type:** Static
  - **Mode:** Indexed
  - **Description:** Microsoft implements this Incident Response control.
  - **Metadata:**
    - **Version:** 2.0.0
    - **Category:** Search
    - **Parameters:**
      - **Effect:**
        - **Type:** String
        - **Default Value:** AuditIfNotExists
      - **Required Retention Days:**
        - **Type:** String
        - **Default Value:** 365
  - **Policy Rule:**
    - **If:**
      - **Field:** type
      - **Equals:** Microsoft.Search/searchServices
    - **Then:**
      - **Details:**
        - **Type:** Microsoft.Insights/diagnosticSettings
        - **Existence Condition:**
          - **Count:**
            - **Field:** Microsoft.Insights/diagnosticSettings/logs[*]
            - **Where:**
              - **Any Of:**
                - **Field:** Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled
                - **Value:** false
                - **Condition:**
                  - **Field:** Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.days
                  - **Equals:** [parameters('requiredRetentionDays')]
          - **Greater Or Equals:** 1

Managed Control 1172 - Internal System Connections

- **Microsoft Managed Control 1172 - Internal System Connections**
  - **Policy Type:** Static
  - **Mode:** Indexed
  - **Description:** Microsoft implements this Security Assessment and Authorization control.
  - **Metadata:**
    - **Version:** 1.0.0
    - **Category:** Regulatory Compliance
    - **Additional Metadata Id:** /providers/Microsoft.PolicyInsights/policyMetadata/ACF1172
  - **Policy Rule:**
    - **If:**
      - **All Of:**
        - **Field:** type
        - **In:** Microsoft.Resources/subscriptions
        - **ResourceGroups[]
      - **Value:** false
      - **Equals:** true
    - **Then:**
      - **Effect:** audit

Diagnostic logs in Search services should be enabled, **policyType:** BuiltIn, **mode:** Indexed, **description:** Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes; when a security incident occurs or when your network is compromized.

**Metadata:**
- **Version:** 2.0.0
- **Category:** Search
- **Parameters:**
  - **Effect:**
    - **Type:** String
    - **Default Value:** AuditIfNotExists
  - **Required Retention Days:**
    - **Type:** String
    - **Default Value:** 365
  - **Required diagnostic logs retention in days:**
    - **Default Value:** 365
  - **Policy Rule:**
    - **If:**
      - **Field:** type
      - **Equals:** Microsoft.Search/searchServices
    - **Then:**
      - **Details:**
        - **Type:** Microsoft.Insights/diagnosticSettings
        - **Existence Condition:**
          - **Count:**
            - **Field:** Microsoft.Insights/diagnosticSettings/logs[*]
        - **Where:**
          - **Any Of:**
            - **Field:** Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled
            - **Value:** false
          - **Field:** Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.days
          - **Equals:** 0
    - **Details:**
      - **Field:** Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.days
      - **Where:**
        - **Any Of:**
          - **Field:** Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled
          - **Value:** false
          - **Field:** Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.days
          - **Equals:** [parameters('requiredRetentionDays')]
      - **Greater Or Equals:** 1

**Metadata:**
- **Version:** 1.0.0
- **Category:** Security Assessment and Authorization Control
- **Additional Metadata Id:** /providers/Microsoft.PolicyInsights/policyMetadata/ACF1172

Open Source Used In SDWan 20.7.1 8730
Managed Control 1672 - Flaw Remediation | Central Management, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1672"}, "policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
}, {
"value": "false",
"equals": "true"
}]
},
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/b43e946e-a4c8-4b92-8201-4a39331db43c", "type": "Microsoft.Authorization/policyDefinitions", "name": "b43e946e-a4c8-4b92-8201-4a39331db43c", "properties": {
"displayName": "Microsoft Managed Control 1672 - Flaw Remediation | Central Management",
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1672"}, "policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
}, {
"value": "false",
"equals": "true"
}]
},
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/b45fe972-904e-45a4-ac20-673ba027a301", "type": "Microsoft.Authorization/policyDefinitions", "name": "b45fe972-904e-45a4-ac20-673ba027a301", "properties": {
"displayName": "Microsoft Managed Control 1131 - Protection Of Audit Information",
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1131"}, "policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
}, {
"value": "false",
"equals": "true"
}]
},
"then": {
"effect": "audit"
}
},
"displayName": "[Deprecated]: Audit Web Sockets state for an API App",
"policyType": "BuiltIn", "mode": "All", "description": "The Web Sockets protocol is vulnerable to different types of security threats. Use of Web Sockets within an API app must be carefully reviewed.", "metadata": {
"version": "1.0.0-deprecated", "category": "Security Center", "deprecated": true
},
"parameters": {
"effect": {
"type": "String",
"metadata": {
"displayName": "[Deprecated]: Effect",
"description": "Enable or disable the execution of the policy"}
},
"allowedValues": {
"AuditIfNotExists", "Disabled"
},
"defaultValue": "AuditIfNotExists"
},
"policyRule": {
"if": {
"allof": [{
"field": "type",
"equals": "microsoft.Web/sites"}, {
"anyof": [{
"field": "kind",
"equals": "api"},
{
"field": "kind",
"equals": "apiApp"
}]
}]
},
"then": {
"effect": [parameters("effect")]
},
"details": {
"type": "Microsoft.Security/complianceResults",
"name": "DisableWebSockets",
"existenceCondition": {
"field": "Microsoft.Security/complianceResults/resourceStatus",
"in": ["OffByPolicy", "Healthy"]
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/b48334a4-911b-4084-b1ab-36ea4e50b951", "type": "Microsoft.Authorization/policyDefinitions", "name": "b48334a4-911b-4084-b1ab-36ea4e50b951", "properties": {
"displayName": "A security contact phone number should be provided for your subscription",
"policyType": "BuiltIn",
"mode": "All",
"description": "Enter a phone number to receive notifications when Azure Security Center detects compromised resources",
"metadata": {
"version": "1.0.0", "category": "Security Center"
},
"parameters": {
"effect": {
"type": "String"
},
"allowedValues": {
"AuditIfNotExists", "Disabled"},
"defaultValue": "AuditIfNotExists"
},
"policyRule": {
"if": {
"field": "type",
"equals": "Microsoft.Security/securityContacts",
"then": {
"effect": [parameters("effect")]
}
},
"details": {
"type": "Microsoft.Security/securityContacts",
"existenceCondition": {
"field": "Microsoft.Security/securityContacts/phoneNumber",
"notEquals": "$null"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/b4d66858-c922-44e3-9566-5c9d7a7be744", "type": "Microsoft.Authorization/policyDefinitions", "name": "b4d66858-c922-44e3-9566-5c9d7a7be744", "properties": {
"displayName": "Microsoft Security Center"},
"allowedValues": {
"AuditIfNotExists", "Disabled"},
"defaultValue": "AuditIfNotExists"
},
"policyRule": {
"if": {
"field": "type",
"equals": "Microsoft.Resources/subscriptions",
"then": {
"effect": [parameters("effect")]
}
},
"details": {
"type": "Microsoft.Security/securityContacts",
"existenceCondition": {
"field": "Microsoft.Security/securityContacts/phoneNumber",
"notEquals": "$null"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/b4d66858-c922-44e3-9566-5c9d7a7be744", "type": "Microsoft.Authorization/policyDefinitions", "name": "b4d66858-c922-44e3-9566-5c9d7a7be744", "properties": {
"displayName": "Microsoft
Managed Control 1286 - Telecommunications Services | Provider Contingency Plan, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1286" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "audit"}}}, "id": "providers/Microsoft.Authorization/policyDefinitions/b4f9b47a-2116-4e6f-88db-4edbf27275f1", "type": "Microsoft.Authorization/policyDefinitions", "name": "b4f9b47a-2116-4e6f-88db-4edbf27275f1", {"properties": {"displayName": "Public network access should be disabled for PostgreSQL servers", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits PostgreSQL servers in your environment with public network access enabled. For more details, visit https://go.microsoft.com/fwlink/?linkid=2120015", "metadata": {"version": "1.0.0", "category": "SQL"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.DBforPostgreSQL/servers"}, {"field": "Microsoft.DBforPostgreSQL/servers/publicNetworkAccess", "notEquals": "Disabled"}], "then": {"effect": [parameters("effect")]}}, "id": "providers/Microsoft.Authorization/policyDefinitions/b52376f7-9612-48a1-81cd-1ffe4b61032c", "type": "Microsoft.Authorization/policyDefinitions", "name": "b52376f7-9612-48a1-81cd-1ffe4b61032c", {"properties": {"displayName": "Service Fabric clusters should only use Azure Active Directory for client authentication", "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit usage of client authentication only via Azure Active Directory in Service Fabric"}, "metadata": {"version": "1.1.0", "category": "Service Fabric"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match"}, "allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.ServiceFabric/clusters"}, {"anyOf": [{"field": "Microsoft.ServiceFabric/clusters/azureActiveDirectory.tenantId", "exists": false}, {"field": "Microsoft.ServiceFabric/clusters/azureActiveDirectory.tenantId", "equals": ""}], "then": {"effect": [parameters("effect")]}}, "id": "providers/Microsoft.Authorization/policyDefinitions/b54ed75b-3e1a-44ac-a333-05ba39bbf0", "type": "Microsoft.Authorization/policyDefinitions", "name": "b54ed75b-3e1a-44ac-a333-05ba39bbf0", {"properties": {"displayName": "Deploy Advanced Threat Protection for Cosmos DB Accounts", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy enables Advanced Threat Protection across Cosmos DB accounts"}, "metadata": {"version": "1.0.0", "category": "Cosmos DB"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["DeployIfNotExists", "Disabled"], "defaultValue": "DeployIfNotExists"}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.DocumentDB/databaseAccounts"}, "then": {"effect": [parameters("effect")]}}, "details": {"type": "Microsoft.Security/advancedThreatProtectionSettings", "name": "current", "existenceCondition": {"field": "Microsoft.Security/advancedThreatProtectionSettings/isEnabled", "equals": true}, "roleDefinitionIds": ["providers/Microsoft.Authorization/roleDefinitions/fb1c8493-542b-48eb-b624-b4c80e000000"]}, "deployment": {"mode": "incremental", "template": {"$schema": "http://schema.management.azure.com/schemas/2015-01-
Diagnostic logs in App Services should be enabled, "policyType": "BuiltIn", "mode": "All", "description": "Audit enabling of diagnostic logs on the app. This enables you to recreate activity trails for investigation purposes if a security incident occurs or your network is compromised", "metadata": {"version": "1.0.0", "category": "App Service"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "notContains": "functionapp"}]}, "then": {"effect": {"parameters"}, "details": {"type": "Microsoft.Web/sites/config", "existenceCondition": {"allOf": [{"field": "Microsoft.Web/sites/config/detailedErrorLoggingEnabled", "equals": "true"}, {"field": "Microsoft.Web/sites/config/httpLoggingEnabled", "equals": "true"}, {"field": "Microsoft.Web/sites/config/requestTracingEnabled", "equals": "true"}]}, "id": "providers/Microsoft.Authorization/policyDefinitions/b607c5de-e7d9-4ee6-9e5c-83f1bcee4fa0"}}, "metadata": {"displayName": "Microsoft Managed Control 1419 - Nonlocal Maintenance | Cryptographic Protection", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "notContains": "functionapp"}]}, "then": {"effect": {"parameters"}, "details": {"type": "Microsoft.Web/sites/config", "existenceCondition": {"allOf": [{"field": "Microsoft.Web/sites/config/detailedErrorLoggingEnabled", "equals": "true"}, {"field": "Microsoft.Web/sites/config/httpLoggingEnabled", "equals": "true"}, {"field": "Microsoft.Web/sites/config/requestTracingEnabled", "equals": "true"}]}, "id": "providers/Microsoft.Authorization/policyDefinitions/b607c5de-e7d9-4ee6-9e5c-83f1bcee4fa0"}.
Network Watcher should be enabled. It is a regional service that enables you to monitor and diagnose network conditions at a network scenario level in, to, and from Azure. Scenario level monitoring enables you to diagnose problems at an end-to-end network level view. Network diagnostic and visualization tools available with Network Watcher help you understand, diagnose, and gain insights to your network in Azure.

Microsoft Managed Control 1608 - Supply Chain Protection

Microsoft Managed Control 1401 - Controlled Maintenance

API App should only be accessible over HTTPS. Use HTTPS to ensure server/service authentication and protect data in transit from network layer eavesdropping attacks.

Deploy prerequisites to audit Windows VMs in which the Administrators group does not have Core Read-Write permission.
not contain only the specified members"], "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines in which the Administrators group does not contain only the specified members. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

A semicolon-separated list of all the expected members of the Administrators local group. Ex: Administrator; myUser1; myUser2"

"metadata": {
"displayName": "AdministratorsGroupMembers",
"description": "A semicolon-separated list of all the expected members of the Administrators local group. Ex: Administrator; myUser1; myUser2"

"parameters": {
"Members": {
"type": "String",
"metadata": {
"displayName": "Members",
"description": "A semicolon-separated list of all the expected members of the Administrators local group. Ex: Administrator; myUser1; myUser2"

Open Source Used In SDWan

Show audit results from Windows VMs configurations in "Security Options - Accounts". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Accounts". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Diagnostic Settings for Logic Apps to Log Analytics

workspace*

**Policy:** BuiltIn

**Mode:** Indexed

**Description:** Deploys the diagnostic settings for Logic Apps to stream to a regional Log Analytics workspace when any Logic Apps which is missing this diagnostic settings is created or updated.

**Parameters:**

- **effect**: Enables or disables the execution of the policy.
- **allowedValues**: [DeployIfNotExists, Disabled], default value: DeployIfNotExists
- **profileName**: String, metadata: displayName: Profile name, description: The diagnostic settings profile name, default value: setbypolicy_logAnalytics
- **logAnalytics**: String, metadata: displayName: Log Analytics workspace, description: Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment's principal ID.
- **metricsEnabled**: Boolean, default value: False
- **logsEnabled**: Boolean, default value: False

**Role Definitions:**

- /providers/microsoft.authorization/roleDefinitions/749f88d5-cbae-40b8-bcfc-e573ddc772fa
- /providers/microsoft.authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3-d43ce8d16293

**Management URL:** http://schema.management.azure.com/schemas/2015-01-
An activity log alert should exist for specific Administrative operations. This policy audits specific Administrative operations with no activity log alerts configured. The metadata contains version, category, parameters, effect, operation name, and display name. The policyRule includes if statement with conditions for existence of activity log alerts with specified categories and operation names.

Microsoft Managed Control 1257 - Contingency Planning Implementing this Contingency Planning control, Microsoft implements this Contingency Planning control. The policyType is Static, mode is Indexed, and the policyRule has an if statement with conditions for allOf and anyOf clauses for the existence of activity log alerts with specified categories and operation names.

Managed Control 1257 - Contingency Training

Open Source Used In SDWan 20.7.1

8738
Managed Control 1186 - Configuration Change

- **Policy Name:** Microsoft Managed Control 1186 - Configuration Change
- **Description:** Microsoft implements this Configuration Management control.
- **Category:** Regulatory Compliance
- **Metadata:**
  - Additional Metadata ID: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1186
  - Metadata:
    - Version: 1.0.0
    - Category: Regulatory Compliance

Managed Control 1447 - Physical Access

- **Policy Name:** Microsoft Managed Control 1447 - Physical Access Authorizations
- **Description:** Microsoft implements this Physical and Environmental Protection control.
- **Category:** Regulatory Compliance
- **Metadata:**
  - Additional Metadata ID: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1447
  - Metadata:
    - Version: 1.0.0
    - Category: Regulatory Compliance

Managed Control 1625 - Boundary Protection | Access Points

- **Policy Name:** Microsoft Managed Control 1625 - Boundary Protection | Access Points
- **Description:** Microsoft implements this System and Communications Protection control.
- **Category:** Regulatory Compliance
- **Metadata:**
  - Additional Metadata ID: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1625
  - Metadata:
    - Version: 1.0.0
    - Category: Regulatory Compliance

Managed Control 1610 - Development Process, Standards, And Tools

- **Policy Name:** Microsoft Managed Control 1610 - Development Process, Standards, And Tools
- **Description:** Microsoft implements this System and Services Acquisition control.
- **Category:** Regulatory Compliance
- **Metadata:**
  - Additional Metadata ID: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1610
  - Metadata:
    - Version: 1.0.0
    - Category: Regulatory Compliance

Show audit results from Windows VMs configurations in "Security Options - Recovery console".

- **Policy Name:** Show Audit Results From Windows VMs Configurations
- **Description:** This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Recovery console".
Guest Configuration policies, please visit https://aka.ms/gcpol.

```json
"policyRule": {
  "if": {
    "anyOf": {
      "allOf": {
        "field": "Microsoft.Compute/virtualMachines",
        "anyOf": {
          "field": "Microsoft.Compute/imagePublisher",
          "allOf": {
            "field": "Microsoft.Compute/imagePublisher",
            "equals": "MicrosoftWindowsServer",
            "field": "Microsoft.Compute/imageSKU",
            "notLike": "2008*"
          }
        },
        "allOf": {
          "field": "Microsoft.Compute/imagePublisher",
          "equals": "MicrosoftSQLServer",
          "field": "Microsoft.Compute/imageOffer",
          "notLike": "SQL2008*"
        }
      },
      "allOf": {
        "field": "Microsoft.Compute/imagePublisher",
        "equals": "microsoft-dsvm",
        "field": "Microsoft.Compute/imageOffer",
        "equals": "dsvm-windows"
      }
    },
    "allOf": {
      "field": "Microsoft.Compute/imagePublisher",
      "equals": "microsoft-ads",
      "field": "Microsoft.Compute/imageOffer",
      "in": ["standard-data-science-vm", "windows-data-science-vm"]
    }
  },
  "allOf": {
    "field": "Microsoft.Compute/imagePublisher",
    "equals": "batch",
    "field": "Microsoft.Compute/imageOffer",
    "equals": "rendering-windows2016"
  }
},
"then": {
  "effect": "auditIfNotExists",
  "details": {
    "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments",
    "name": "AzureBaseline_SecurityOptionsRecoveryconsole",
    "existenceCondition": {
      "field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus",
      "equals": "Compliant"
    }
  }
}
```

```
"id": "/providers/Microsoft.Authorization/policyDefinitions/ba12366f-f9a6-42b8-9d98-157d0b1a837b",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "/providers/Microsoft.Authorization/policyDefinitions/azf971279-05e0-4463-9a70-`
```
Managed Control 1166 - Continuous Monitoring, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Security Assessment and Authorization control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1166" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}, {"then": {"effect": "audit"}}] }, "id": "/providers/Microsoft.Authorization/policyDefinitions/bb02733d-3cc5-4bb0-a6cd-695ba2c2272e", "type": "Microsoft.Authorization/policyDefinitions", "name": "bb02733d-3cc5-4bb0-a6cd-695ba2c2272e" }, {"properties": {"displayName": "Microsoft Managed Control 1166 - Continuous Monitoring", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Security Assessment and Authorization control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1166" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}, {"then": {"effect": "audit"}}] }, "id": "/providers/Microsoft.Authorization/policyDefinitions/bb02733d-3cc5-4bb0-a6cd-695ba2c2272e", "type": "Microsoft.Authorization/policyDefinitions", "name": "bb02733d-3cc5-4bb0-a6cd-695ba2c2272e" }, {"properties": {"displayName": "Microsoft Managed Control 1188 - Configuration Change Control", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1188" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}, {"then": {"effect": "audit"}}] }, "id": "/providers/Microsoft.Authorization/policyDefinitions/bb20548a-c926-4e4d-855c-bccd6fa95e", "type": "Microsoft.Authorization/policyDefinitions", "name": "bb20548a-c926-4e4d-855c-bccd6fa95e" }, {"properties": {"displayName": "Microsoft Managed Control 1533 - Third-Party Personnel Security", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1533" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}, {"then": {"effect": "audit"}}] }, "id": "/providers/Microsoft.Authorization/policyDefinitions/bba2a036-fb3b-4261-b1be-a13dfb5fbcac", "type": "Microsoft.Authorization/policyDefinitions", "name": "bba2a036-fb3b-4261-b1be-a13dfb5fbcac" }, {"properties": {"displayName": "[Preview]: Deploy prerequisites to audit Windows VMs configurations in "Security Options - Microsoft Network Client"", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Microsoft Network Client". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": {"version": "1.1.0-preview", "category": "Guest Configuration", "requiredProviders": ["Microsoft.GuestConfiguration"], "preview": true }, "parameters": {"MicrosoftNetworkClientDigitallySignCommunicationsAlways": {"type": "String", "metadata": {"displayName": "Microsoft network client: Digitally sign communications (always)"}, "defaultValue": "1"}, "MicrosoftNetworkClientSendUnencryptedPasswordToThirdpartySMB Servers": {"type": "String", "metadata": {"displayName": "Microsoft network client: Send unencrypted password to third-party SMB servers"}, "description": "Specifies whether packet signing is required by the SMB client component."}, "defaultValue": "1" }, "parameters": {"MicrosoftNetworkClientDigitallySignCommunicationsAlways": {"type": "String", "metadata": {"displayName": "Microsoft network client: Digitally sign communications (always)"}, "description": "Specifies whether packet signing is required by the SMB client component."}, "defaultValue": "1" }, "parameters": {"MicrosoftNetworkClientSendUnencryptedPasswordToThirdpartySMB Servers": {"type": "String", "metadata": {"displayName": "Microsoft network client: Send unencrypted password to third-party SMB servers"}, "description": "Specifies whether the SMB redirector will send plaintext passwords during authentication to third-party SMB servers that do not support password encryption. It is
recommended that you disable this policy setting unless there is a strong business case to enable it.

Microsoft network server: Amount of idle time required before suspending session:

- Specifies the amount of continuous idle time that must pass in an SMB session before the session is suspended because of inactivity. The format of the value is two integers separated by a comma, denoting an inclusive range.

- Specifies whether packet signing is required by the SMB server component.

Microsoft network server: Digitally sign communications (always):

- Specifies whether to disconnect users who are connected to the local computer outside their user account’s valid logon hours. This setting affects the Server Message Block (SMB) component. If you enable this policy setting you should also enable "Network security: Force logoff when logon hours expire".

"Network security: Force logoff when logon hours expire" property and its corresponding policy rule:

```json
"policyRule": {
"if": {
"anyOf": [
{"allOf": [
{"field": "type", "equals": "Microsoft.Compute/virtualMachines"},
{"anyOf": [
"allOf": [
{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"},
{"field": "Microsoft.Compute/imageSKU", "notLike": "2008*"},
{"allOf": [
{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftSQLServer"},
{"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"},
{"allOf": [
{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-dsvm"},
{"field": "Microsoft.Compute/imageOffer", "equals": "dsvm-windows"}],
{"allOf": [
{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-ads"},
{"allOf": [
{"field": "Microsoft.Compute/imagePublisher", "equals": "batch"},
{"field": "Microsoft.Compute/imageOffer", "equals": "rendering-windows2016"}],
{"allOf": [
{"field": "Microsoft.Compute/imagePublisher", "equals": "center-for-internet-security"},
{"field": "Microsoft.Compute/imageOffer", "like": "cis-windows-server-201*"}],
{"allOf": [
{"field": "Microsoft.Compute/imagePublisher", "equals": "pivotal"},
{"field": "Microsoft.Compute/imageOffer", "like": "bosh-windows-server*"}],
{"allOf": [
{"field": "Microsoft.Compute/imagePublisher", "equals": "cloud-infrastructure-services"},
{"field": "Microsoft.Compute/imageOffer", "like": "ad*"}],
{"allOf": [
{"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "exists": "true"},
{"field": "Microsoft.Compute/virtualMachines/osProfile.osDisk.osType", "like": "Windows*"}]},
{"anyOf": [
{"field": "Microsoft.Compute/imageSKU", "exists": "false"},
{"allOf": [
{"field": "Microsoft.Compute/imageSKU", "notLike": "2008*"},
{"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"}]}]}],
{"allOf": [
{"field": "type", "equals": "Microsoft.HybridCompute/machines"},
{"field": "Microsoft.HybridCompute/imageOffer", "like": "windows*"}]}}],
"then": {
"effect": "deployIfNotExists",
```
"Microsoft network client: Send unencrypted password to third-party SMB servers; ExpectedValue",
"="", parameters("MicrosoftNetworkClientSendUnencryptedPasswordToThirdpartySMBServers"),
"="", "Microsoft network server: Amount of idle time required before suspending session; ExpectedValue",
"="", parameters("MicrosoftNetworkServerAmountOfIdleTimeRequiredBeforeSuspendingSession"),
"="", "Microsoft network server: Digitally sign communications (always); ExpectedValue",
"="", parameters("MicrosoftNetworkServerDigitallySignCommunicationsAlways"),
"="", "Microsoft network server: Disconnect clients when logon hours expire; ExpectedValue",
"=",
parameters("MicrosoftNetworkServerDisconnectClientsWhenLogonHoursExpire"))"
"deployment": {
"properties": {
"mode": "incremental",
"parameters": {
"vmName": {
"value": "[field('name')]"},
"location": {
"value": "[field('location')]"},
"configurationName": {
"value": "AzureBaseline_SecurityOptionsMicrosoftNetworkClient"
},
"MicrosoftNetworkClientDigitallySignCommunicationsAlways": {
"value": "[parameters("MicrosoftNetworkClientDigitallySignCommunicationsAlways")]
},
"MicrosoftNetworkClientSendUnencryptedPasswordToThirdpartySMBServers": {
"value": "[parameters("MicrosoftNetworkClientSendUnencryptedPasswordToThirdpartySMBServers")]
},
"MicrosoftNetworkServerAmountOfIdleTimeRequiredBeforeSuspendingSession": {
"value": "[parameters("MicrosoftNetworkServerAmountOfIdleTimeRequiredBeforeSuspendingSession")]
},
"MicrosoftNetworkServerDigitallySignCommunicationsAlways": {
"value": "[parameters("MicrosoftNetworkServerDigitallySignCommunicationsAlways")]
},
"MicrosoftNetworkServerDisconnectClientsWhenLogonHoursExpire": {
"value": "[parameters("MicrosoftNetworkServerDisconnectClientsWhenLogonHoursExpire")]
}
},
"template": {
"$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
"contentVersion": "1.0.0.0",
"parameters": {
"vmName": {
"type": "string"
},
"location": {
"type": "string"
},
"type": {
"type": "string"
},
"configurationName": {
"type": "string"
},
"MicrosoftNetworkClientDigitallySignCommunicationsAlways": {
"type": "string"
},
"MicrosoftNetworkClientSendUnencryptedPasswordToThirdpartySMBServers": {
"type": "string"
},
"MicrosoftNetworkServerAmountOfIdleTimeRequiredBeforeSuspendingSession": {
"type": "string"
},
"MicrosoftNetworkServerDigitallySignCommunicationsAlways": {
"type": "string"
},
"MicrosoftNetworkServerDisconnectClientsWhenLogonHoursExpire": {
"type": "string"
},
"resources": {
"condition": {
"equals": toLower(parameters("type")),
"toLower": "microsoft.hybridcompute/machines"
},
"apiVersion": "2018-11-20",
"type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments",
"name": "[concat(parameters("vmName"),
"/Microsoft.GuestConfiguration/",
parameters("configurationName"))]
},
"location": [parameters("location")],
"properties": {
"guestConfiguration": {
"name": "[parameters("configurationName")]
},
"version": "1.0"
},
"configurationParameter": {
"name": "Microsoft network client: Digitally sign communications (always); ExpectedValue",
"value": "[parameters("MicrosoftNetworkClientDigitallySignCommunicationsAlways")]
"},
""Microsoft network client: Send unencrypted password to third-party SMB servers; ExpectedValue",
"value": "[parameters("MicrosoftNetworkClientSendUnencryptedPasswordToThirdpartySMBServers")]
"},
""Microsoft network server: Amount of idle time required before suspending session; ExpectedValue",
"value": "[parameters("MicrosoftNetworkServerAmountOfIdleTimeRequiredBeforeSuspendingSession")]
"},
""Microsoft network server: Digitally sign communications (always); ExpectedValue",
"value": "[parameters("MicrosoftNetworkServerDigitallySignCommunicationsAlways")]
"},
""Microsoft network server: Disconnect clients when logon hours expire; ExpectedValue",
"value": "[parameters("MicrosoftNetworkServerDisconnectClientsWhenLogonHoursExpire")]
"}
Audit API Applications that are not using latest supported Python Framework

Older classes and types can make your application vulnerable.

Use the latest supported Python version for the latest security classes. Using

The latest supported Python version for the latest security classes.
Open Source Used In SDWan 20.7.1  8745

Microsoft
Managed Control 1194 - Configuration Change Control | Automated Document / Notification / Prohibition Of Changes

Microsoft
Managed Control 1095 - Role-Based Security Training

Microsoft
Managed Control [Preview]: Show audit results from Windows VMs configurations in "System Audit Policies - Account Logon"

Microsoft
Managed Control [Preview]: [Guest Configuration], [preview:true]

Microsoft
Managed Control [Preview]: [System Audit Policies - Account Logon]
Managed Control 1427 - Media Protection Policy And Procedures

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Media Protection control.

Details:
- **Type**: Microsoft.GuestConfiguration/guestConfigurationAssignments
- **Name**: AzureBaseline_SystemAuditPoliciesAccountLogon
- **Existence Condition**: ComplianceStatus equals Compliant

Policy Definition ID: /providers/Microsoft.Authorization/policyDefinitions/bc87d811-4a9b-47cc-ae54-0a41abda7768

Managed Control 1351 - Incident Response Policy And Procedures

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Incident Response control.

Details:
- **Type**: Microsoft.GuestConfiguration/guestConfigurationAssignments
- **Name**: AzureBaseline_SystemAuditPoliciesAccountLogon
- **Existence Condition**: ComplianceStatus equals Compliant

Policy Definition ID: /providers/Microsoft.Authorization/policyDefinitions/bc87d811-4a9b-47cc-ae54-0a41abda7768

Managed Control 1050 - Concurrent Session Control

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Access Control control.

Details:
- **Type**: Microsoft.GuestConfiguration/guestConfigurationAssignments
- **Name**: AzureBaseline_SystemAuditPoliciesAccountLogon
- **Existence Condition**: ComplianceStatus equals Compliant

Policy Definition ID: /providers/Microsoft.Authorization/policyDefinitions/bc87d811-4a9b-47cc-ae54-0a41abda7768

IP Forwarding on your virtual machine should be disabled.

IP forwarding on a virtual machine's NIC allows the machine to receive traffic addressed to other destinations. IP forwarding is rarely required (e.g., when using the VM as a network virtual appliance), and therefore, this should be reviewed by the network security team.

Policy Definition ID: /providers/Microsoft.Authorization/policyDefinitions/bd352bd5-2853-4985-bf0d-73806b4a5744

Open Source Used In SD Wan 20.7.1 8746
Advanced Threat Protection types should be set to "All" in SQL managed instance Advanced Data Security settings. It is recommended to enable all Advanced Threat Protection types on your SQL servers. Enabling all types protects against SQL injection, database vulnerabilities, and any other anomalous activities.

It is recommended to enable all Advanced Threat Protection types on your SQL servers. Enabling all types protects against SQL injection, database vulnerabilities, and any other anomalous activities.

This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines in which the Administrators group contains any of the specified members. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Audit Web Applications that are not using latest supported Java Framework

the latest supported Java version for the latest security classes. Using older classes and types can make your application vulnerable.

Managed Control 1360 - Incident Handling

Microsoft implements this Incident Response control

Audit Windows VMs on which Windows Defender Exploit Guard is not enabled

Audit Windows VMs on which Windows Defender Exploit Guard is not enabled

Audit Windows VMs on which Windows Defender Exploit Guard is not enabled

Audit Web Applications that are not using latest supported Java Framework
metrics", "description": "Whether to enable metrics stream to the Log Analytics workspace - True or False"},
{"allowedValues": ["True", "False"], "defaultValue": "False"},
"logsEnabled": {
"type": "String",
"metadata": {
"displayName": "Enable logs",
"description": "Whether to enable logs stream to the Log Analytics workspace - True or False"},
"allowedValues": ["True", "False"], "defaultValue": "False"}

"policyRule": {
"if": {
"field": "type",
"equals": "Microsoft.KeyVault/vaults"},
"then": {
"effect": [parameters('effect')]
}
},
"details": {
"type": "Microsoft.Insights/diagnosticSettings",
"name": {
[parameters('profileName')]
},
"existenceCondition": {
[allOf]: [
"field": "Microsoft.Insights/diagnosticSettings/logs.enabled",
"equals": [parameters('logsEnabled')]
],
"field": "Microsoft.Insights/diagnosticSettings/metrics.enabled",
"equals": [parameters('metricsEnabled')]
]
},
"roleDefinitionIds": ["providers/microsoft.authorization/roleDefinitions/749f88d5-cbae-40b8-bcfc-e573ddc772fa", "/providers/microsoft.authorization/roleDefinitions/92aa0da-9daa-4b6-94a3-d43ce8d16293"],
"deployment": {
"properties": {
"mode": "incremental",
"template": {
"contentVersion": "1.0.0.0",
"parameters": {
"resourceName": {
"type": "string"
},
"location": {
"type": "string"
},
"logAnalytics": {
"type": "string"
},
"metricsEnabled": {
"type": "string"
},
"logsEnabled": {
"type": "string"
},
"profileName": {
"type": "string"
}
},
"variables": {},
"resources": [
{"type": "Microsoft.KeyVault/vaults/providers/diagnosticSettings",
"apiVersion": "2017-05-01-preview",
"name": {
[concat(parameters('resourceName'), "/", "/", "Microsoft.Insights/", parameters('profileName'))]
},
"location": {
[parameters('location')]
},
"dependsOn": [],
"properties": {
"workspaceId": [parameters('logAnalytics')],
"metrics": [parameters('metricsEnabled')],
"logs": [parameters('logsEnabled')]
}],
"outputs": []
}
},
"parameters": {
"location": {
"value": [field('location')]
},
"resourceName": {
"value": [field('name')]
},
"logAnalytics": {
"value": [parameters('logAnalytics')]
},
"metricsEnabled": {
"value": [parameters('metricsEnabled')]
},
"logsEnabled": {
"value": [parameters('logsEnabled')]
},
"profileName": {
"value": [parameters('profileName')]
}
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/bef3f64c-5290-43b7-85b0-9b254ee44e73",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "bef3f64c-5290-43b7-85b0-9b254ee44e73"},
{"properties": {
"displayName": "Microsoft Managed Control 1152 - System Interconnections",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft implements this Security Assessment and Authorization control",
"metadata": {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": ["providers/Microsoft.PolicyInsights/policyMetadata/ACF1152"]
},
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
},
"value": "false",
"equals": "true"
}],
"then": {
"effect": "audit"
}
},
"id": "providers/Microsoft.Authorization/policyDefinitions/bf045164-79ba-4215-8f95-e573ddc772fa",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "bf045164-79ba-4215-8f95-e573ddc772fa"}

Interconnections,
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft implements this Security Assessment and Authorization control",
"metadata": {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": ["providers/Microsoft.PolicyInsights/policyMetadata/ACF1152"]
},
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
},
"value": "false",
"equals": "true"
}],
"then": {
"effect": "audit"
}
},
"id": "providers/Microsoft.Authorization/policyDefinitions/bf045164-79ba-4215-8f95-e573ddc772fa",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "bf045164-79ba-4215-8f95-e573ddc772fa"

Interconnections,
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft implements this Security Assessment and Authorization control",
"metadata": {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": ["providers/Microsoft.PolicyInsights/policyMetadata/ACF1152"]
},
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
},
"value": "false",
"equals": "true"
}],
"then": {
"effect": "audit"
}
},
"id": "providers/Microsoft.Authorization/policyDefinitions/bf045164-79ba-4215-8f95-e573ddc772fa",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "bf045164-79ba-4215-8f95-e573ddc772fa"}
Deploy prerequisites to audit Windows VMs configurations in "System Audit Policies - Logon-Logoff". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Logon-Logoff". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
approved VM extensions should be installed","policyType":"BuiltIn","mode":"Indexed","description":"This policy governs the virtual machine extensions that are not approved.","metadata":{
"version":1.0.0,"category":"Compute","parameters":{
"effect":{"type":String,"metadata":{
"displayName":"Effect","description":"The effect determines what happens when the policy rule is evaluated to match"},"allowedValues":['Audit','Deny','Disabled'],"defaultValue":"Audit"},
"approvedExtensions":{"type":Array,"metadata":{
"description":"The list of approved extension types that can be installed. Example: AzureDiskEncryption","displayName":"Approved extensions"}}},"policyRule":{
"if":{
"allOf":[]},
"then":{
"effect":parameters('effect')
},
"id":/providers/Microsoft.Authorization/policyDefinitions/c0e996f8-39cf-4af9-9f49-83fbde810432"},
"properties":{
"displayName":"Microsoft Managed Control 1124 - Audit Reduction And Report Generation","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Audit and Accountability control","metadata":{
"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1124"},
"policyRule":{
"if":{
"allOf":[]},
"then":{
"effect":audit
},
"id":/providers/Microsoft.Authorization/policyDefinitions/c10152dd-78f8-4335-ae2d-ad92cc028da4"},
"properties":{
"displayName":"Microsoft Managed Control 1676 - Malicious Code Protection","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{
"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1676"},
"policyRule":{
"if":{
"allOf":[]},
"then":{
"effect":audit
},
"id":/providers/Microsoft.Authorization/policyDefinitions/c10fb58b-56a8-489e-9ce3-7ffe24e78e4b"},
"properties":{
"displayName":"Microsoft Managed Control 1719 - Spam Protection","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{
"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1719"},
"policyRule":{
"if":{
"allOf":[]},
"then":{
"effect":audit
},
"id":/providers/Microsoft.Authorization/policyDefinitions/c13da9b4-fe14-4fe2-853a-5997c9d215a"},
"properties":{
"displayName":"Microsoft Authorization/policyDefinitions","name":"c13da9b4-fe14-4fe2-853a-5997c9d215a"}]
}
{"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"},
{"field": "Microsoft.Compute/imageSKU", "notLike": "2008*"}],
{"allOf": [{"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"}],
{"allOf": [{"field": "Microsoft.Compute/imageOffer", "equals": "dsvm-windows"}],
{"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-ads"},
{"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "batch"},
{"field": "Microsoft.Compute/imageOffer", "equals": "rendering-windows2016"}],
{"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "center-for-internet-security-inc"},
{"field": "Microsoft.Compute/imageOffer", "like": "cis-windows-server-201*"}],
{"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "pivotal"},
{"field": "Microsoft.Compute/imageOffer", "like": "bosh-windows-server-20*"}],
{"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "cloud-infrastructure-services"},
{"field": "Microsoft.Compute/imageOffer", "like": "ad*"}],
{"allOf": [{"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "exists": true},
{"field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType", "like": "Windows*"}],
{"anyOf": [{"field": "Microsoft.Compute/imageSKU", "exists": false},
{"allOf": [{"field": "Microsoft.Compute/imageSKU", "notLike": "2008*"},
{"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"}],
{"field": "Microsoft.Compute/imageOffer", "like": "windows*"}],
{"then": {"effect": "deployIfNotExists", "details": ["roleDefinitionIds": [/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"],
"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "AzureBaseline_S
istemAuditPoliciesAccountLogon", "existenceCondition": [{"field": "Microsoft.GuestConfiguration/guestConfiguratio
nAssignments/parameterHash", "equals": [base64(concat("Audit
Credential Validation;ExpectedValue", ",
parameters("AuditCredentialValidation")]]})],
"deployment": [{"properties": {"mode": "incremental", "parameters": {"vmName": {"value": "[field(name)]"},
"location": {"value": "[field(location)]"},
"type": {"value": "[field(type)]"},
"configurationName": {"value": "AzureBaseline_SystemAuditPoliciesAccountLogon"},
"AuditCredentialValidation": {"value": "parameters(AuditCredentialValidation)["],
"template": {"$schema": "https://schema.management.azure.co
m/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"vmName": {"type": "string"},
"location": {"type": "string"},
"type": {"type": "string"},
"configurationName": {"type": "string"},
"AuditCredentialValidation": {"type": "string"}},
"resources": [{"condition": ["equals(toLower(parameters(type))],

toLower("microsoft.hybridcompute/machines"))],
"apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", "name": [concat(par
eters("vmName)),

"Microsoft.GuestConfiguration"],

parameters("configurationName")}],
"location": [parameters("location")],
"properties": {"guestConfiguration": {"na
me": [parameters("configurationName")],
"version": "1.1", "configurationParameter": ["name": "Audit
Credential Validation;ExpectedValue", "value": [parameters("AuditCredentialValidation")]]}],
"condition": ["equals(toLower(parameters(type))],

toLower("Microsoft.Compute/virtualMachines")),
"apiVersion": "2018-11-20", "type": "Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments", "name": [concat(par
eters("vmName)),

"Microsoft.GuestConfiguration"],

parameters("configurationName")]],
"location": [parameters("location")],
"properties": {"guestConfiguration": {"na
me": [parameters("configurationName")],
"version": "1.1", "configurationParameter": ["name": "Audit
Credential Validation:ExpectedValue", "value": 
[parameters("AuditCredentialValidation")]
},
"condition": 
[equals(toLower(parameters("type")),
toLower("Microsoft.Computer/virtualMachines"))],
"apiVersion": "2019-07-01",
"type": "Microsoft.Computer/virtualMachines",
"identity": 
["type": "SystemAssigned"],
"name": 
[parameters("vmName")],
"location": [parameters("location")],
"condition": 
[equals(toLower(parameters("type")),
toLower("Microsoft.Computer/virtualMachines"))],
"apiVersion": "2015-05-01-preview",
"name": 
[concat(parameters("vmName"), 
"/AzurePolicyforWindows")],
"type": "Microsoft.Computer/virtualMachines/extensions",
"location": [parameters("location")],
"properties": 
["publisher": "Microsoft.GuestConfiguration",
"type": "ConfigurationForWindows",
"typeHandlerVersion": "1.1",
"autoUpgradeMinorVersion": true,
"settings": {},
"protectedSettings": {},
"dependsOn": 
[concat("Microsoft.Computer/virtualMachines/parameters/" 
parameters("vmName")],
"providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/
parameters("configurationName")]
]},
"id": 
/providers/Microsoft.Authorization/policyDefinitions/c1e289c0-ffad-475d-a924-adc058765d65",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "c1e289c0-ffad-475d-a924-adc058765d65",
"properties": 
["displayName": "Microsoft Managed Control 1503 - Information Security Architecture",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft implements this Planning control",
"metadata": 
["version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": 
/providers/Microsoft.PolicyInsights/policyMetadata/ACF1503"],
"policyRule": 
["if": 
[allOf]: 
["field": "type",
"in": ["Microsoft.Resource.subscriptions",
"Microsoft.Resource.subscriptions.resourceGroups"]],
"value": false,
"equals": "true"],
"then": 
[effect": "audit"]
],
"id": 
/providers/Microsoft.Authorization/policyDefinitions/c1fa9c2f-d439-4ab9-8b83-81fb193481d",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "c1fa9c2f-d439-4ab9-8b83-81fb193481d",
"properties": 
["displayName": "Deploy prerequisites to audit Windows VMs that are not set to the specified time zone",
"policyType": "BuiltIn",
"mode": "Indexed",
"description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines that are not set to the specified time zone. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative.
For more information on Guest Configuration policies, please visit https://aka.ms/gerpol",
"metadata": 
["version": "1.1.0",
"category": "Guest Configuration",
"requiredProviders": ["Microsoft.GuestConfiguration"],
"parameters": 
["TimeZone": 
["type": "String",
"metadata": 
["displayName": "Time zone",
"description": "The expected time zone"],
"allowedValues": 
[UTC-12:00]
International Date Line West",
[UTC-11:00] Coordinated Universal Time-11",
[UTC-10:00] Aleutian Islands",
[UTC-10:00] Hawaii",
[UTC-09:30] Marquesas Islands",
[UTC-09:00] Alaska",
[UTC-09:00] Coordinated Universal Time-09",
[UTC-08:00] Baja California",
[UTC-08:00] Coordinated Universal Time-08",
[UTC-07:00] Pacific Time (US & Canada)
[UTC-07:00] Arizona",
[UTC-07:00] Chihuahua, La Paz, Mazatlan",
[UTC-07:00] Mountain Time (US & Canada)
[UTC-06:00] Central America",
[UTC-06:00] Central Time (US & Canada)
[UTC-06:00] Easter Island",
[UTC-06:00] Guadalajara, Mexico City, Monterrey",
[UTC-06:00] Saskatchewan",
[UTC-05:00] Bogota, Lima, Quito, Rio Branco",
[UTC-05:00] Chetumal",
[UTC-05:00] Eastern Time (US & Canada)
[UTC-05:00] Haiti",
[UTC-05:00] Havana",
[UTC-05:00] Indiana (East)
[UTC-05:00] Turks and Caicos",
[UTC-04:00] Asuncion",
[UTC-04:00] Atlantic Time (Canada)
[UTC-04:00] Caracas",
[UTC-04:00] Cuiaba",
[UTC-04:00] Georgetown, La Paz, Manaus, San

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According to the policy rule, the following Azure resources are allowed:

- Microsoft.Compute/virtualMachines
- Microsoft.Compute/imagePublisher
- Microsoft.PoolPricing
- Azure.Storage gestão
- more Azure services

The following Azure resources are blocked by the policy rule:

- Microsoft.Network/virtualNetworks
- Microsoft.Network/vnetGateways
- Microsoft.Network/vnetGateways
- more Azure services

The allowed Azure resources are based on specific publishers such as "esri", "incredibuild", "MicrosoftDynamicsAX", "MicrosoftSharepoint", "MicrosoftVisualStudio", "MicrosoftWindowsDesktop", "MicrosoftWindowsServerHPCPack".

The blocked Azure resources are based on specific publishers such as "MicrosoftWindowsServer", "MicrosoftSQLServer", "MicrosoftDynamicsAX", "MicrosoftSharepoint", "MicrosoftVisualStudio", "MicrosoftWindowsDesktop", "MicrosoftWindowsServerHPCPack".

The policy rule is designed to restrict access to Azure resources based on specific conditions related to publishers and image offers.
audit results from Windows VMs on which the specified services are not installed and "Running".

This policy should only be used along with its corresponding deploy policy in an initiative.

This definition allows Azure Policy to process the results of auditing Windows virtual machines on which the specified services are not installed and "Running".

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

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Ensure that ".NET Framework" version is the latest, if used as a part of the API app.

Periodically, newer versions are released for .NET Framework software either due to security flaws or to include additional functionality. Using the latest .NET framework version for web apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.

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or disable the execution of the policy
],
"allowedValues": ["AuditIfNotExists", "Disabled"],
"defaultValue": "AuditIfNotExists" ]
},
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"equals": "Microsoft.Web/sites",
"field": "kind",
"like": "*api"
}],
"then": {
"effect": [parameters("effect")],
"details": {
"type": "Microsoft.Web/sites/config",
"name": "web",
"existenceCondition": {
"field": "Microsoft.Web/sites/config/web.netFrameworkVersion",
"in": ["v3.0", "v4.0"]
}
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/c2e7ca55-f62c-49b2-89a4-
d41eb661d2f0",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "c2e7ca55-f62c-49b2-89a4-
d41eb661d2f0",
"properties": {
"displayName": "Microsoft
Managed Control 1176 - Baseline
Configuration",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft
implements this Configuration Management control",
"metadata": {
"version": "1.0.0",
"category": "Regulatory Complaince",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1176"
},
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Web/sites/subscriptions", "Microsoft.Web/sites/resourceGroups"]
}],
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/c3069a05-7bf3-467f-b0cd-
e5c77449cd",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "c3069a05-7bf3-467f-b0cd-
e5c77449cd",
"properties": {
"displayName": "Microsoft
Managed Control 1389 - Information Spillage Response",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft
implements this Incident Response control",
"metadata": {
"version": "1.0.0",
"category": "Regulatory Complaince",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1389"
},
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Web/sites/subscriptions", "Microsoft.Web/sites/resourceGroups"]
}],
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/c39e6fda-ae70-4891-a739-
be7b6ad1062",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "c39e6fda-ae70-4891-a739-
be7b6ad1062",
"properties": {
"displayName": "Microsoft
Managed Control 1390 - Information Spillage Response | Responsible Personnel",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft
implements this Incident Response control",
"metadata": {
"version": "1.0.0",
"category": "Regulatory Complaince",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1390"
},
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Web/sites/subscriptions", "Microsoft.Web/sites/resourceGroups"]
}],
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/c3b65b63-09ec-4cb5-8028-
7dd324d10eb0",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "c3b65b63-09ec-4cb5-8028-
7dd324d10eb0",
"properties": {
"displayName": "System
updates on virtual machine scale sets should be installed",
"policyType": "BuiltIn",
"mode": "Indexed",
"description": "Audit
whether there are any missing system security updates and critical updates
that should be installed to ensure that your Windows and Linux virtual machine
scale sets are secure",
"metadata": {
"version": "1.0.0",
"category": "Security Center"
},
"parameters": {
"effect": {
"type": "String",
"metadata": {
"displayName": "Effect",
"description": "Enable or disable the execution of the policy"
},
"allowedValues": ["AuditIfNotExists", "Disabled"],
"defaultValue": "AuditIfNotExists"
}
},
"policyRule": {
"if": {
"field": "type",
"equals": "Microsoft.Compute/virtualMachineScaleSets",
"then": {
"effect": [parameters("effect")],
"details": {
"type": "Microsoft.Security/complianceResults",
"name": "SystemUpdates",
"existenceCondition": {
"field": "Microsoft.Security/complianceResults/resourceStatus",
"in": ["OffByPolicy", "Healthy"]
}
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/c3f317a7-a95c-4547-b7e7-
11017bd12fe",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "c3f317a7-a95c-4547-b7e7-
Show audit results from Linux VMs that have accounts without passwords. This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Linux virtual machines that have accounts without passwords. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Microsoft Managed Control 1220 - Least Functionality | Authorized Software / Whitelisting: Microsoft implements this Configuration Management control.
Managed Control 1513 - Personnel Screening | Information With Special Protection

Measures:

- **Policy Type:** Static
- **Mode:** Indexed
- **Description:** Microsoft implements this Personnel Security control.

**Metadata:**
- **Version:** 1.0.0
- **Category:** Regulatory Compliance

**Policy Rule:**
- **If:** (allOf: [{field: type, in: ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {value: false, equals: true}]), then: {effect: audit}

**ID:** /providers/Microsoft.Authorization/policyDefinitions/c416970d-b12b-49eb-8af4-fb144cd7c290

**Policy Name:** Microsoft Authorization/policyDefinitions, name: c416970d-b12b-49eb-8af4-fb144cd7c290

**Description:**
Microsoft Antimalware for Azure should be configured to automatically update protection signatures.

**Policy Type:** BuiltIn
**Mode:** Indexed
**Description:** This policy audits any Windows virtual machine not configured with automatic update of Microsoft Antimalware protection.

**Parameters:**
- **Effect:** String
- **Metadata:**
  - **Version:** 1.0.0

**Policy Rule:**

**Description:** Container Registry should use a virtual network service endpoint.

**Policy Type:** BuiltIn
**Mode:** Indexed
**Description:** This policy audits any Container Registry not configured to use a virtual network service endpoint.

**Parameters:**
- **Effect:** String

**Policy Rule:**
- **If:** (allOf: [{field: type, equals: Microsoft.ContainerRegistry/registries/networkRuleSet.defaultAction, notEquals: Deny}, {field: Microsoft.ContainerRegistry/registries/networkRuleSet.virtualNetworkRules[*].action, exists: false}], then: {effect: parameters(effect)}}, id: /providers/Microsoft.Authorization/policyDefinitions/c4857be7-912a-4c75-87e6-e30292bdf78, type: Microsoft.Authorization/policyDefinitions, name: c4857be7-912a-4c75-87e6-e30292bdf78

**Policy Name:** Microsoft Authorization/policyDefinitions, name: c4857be7-912a-4c75-87e6-e30292bdf78

**Description:** Managed Control 1235 - Software Usage Restrictions.

**Policy Type:** Static
**Mode:** Indexed
**Description:** Microsoft implements this Configuration Management control.

**Metadata:**
- **Version:** 1.0.0
- **Category:** Regulatory Compliance

**Policy Rule:**
- **If:** (allOf: [{field: type, in: ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {value: false, equals: true}]), then: {effect: audit}

**ID:** /providers/Microsoft.Authorization/policyDefinitions/c49c610b-ece4-44b3-988c-2172b70d6e46

**Policy Name:** Microsoft Authorization/policyDefinitions, name: c49c610b-ece4-44b3-988c-2172b70d6e46
"properties": {
  "displayName": "Microsoft Managed Control 1173 - Internal System Connections",
  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this Security Assessment and Authorization control",
  "metadata": {
    "version": "1.0.0",
    "category": "Regulatory Compliance",
    "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1173"
  },
  "policyRule": {
    "if": {
      "allOf": [
        {
          "field": "type",
          "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
        },
        {
          "value": "false",
          "equals": "true"
        }
      ],
      "then": {
        "effect": "audit"
      }
    },
    "id": "/providers/Microsoft.Authorization/policyDefinitions/c4ff9e7-2e60-46fa-86be-506b79033fc5",
    "type": "Microsoft.Authorization/policyDefinitions",
    "name": "c4aff9e7-2e60-46fa-86be-506b79033fc5"
  }
},

"properties": {
  "displayName": "Managed identity should be used in your API App",
  "policyType": "BuiltIn",
  "mode": "Indexed",
  "description": "Use a managed identity for enhanced authentication security",
  "metadata": {
    "version": "1.0.0",
    "category": "App Service"
  },
  "parameters": {
    "effect": {
      "type": "String",
      "metadata": {
        "displayName": "Effect",
        "description": "Enable or disable the execution of the policy"
      }
    },
    "details": {
      "type": "Microsoft.Web/sites/config",
      "name": "web",
      "existenceCondition": {
        "field": "Microsoft.Web/sites/config/managedServiceIdentityId",
        "exists": "true"
      }
    }
  },
  "id": "/providers/Microsoft.Authorization/policyDefinitions/c4d441f8-f9d9-4a9e-9cef-e82117cb3eeef",
  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "c4d441f8-f9d9-4a9e-9cef-e82117cb3eeef"
},

"properties": {
  "displayName": "Authentication should be enabled on your API app",
  "policyType": "BuiltIn",
  "mode": "Indexed",
  "description": "Azure App Service Authentication is a feature that can prevent anonymous HTTP requests from reaching the API app, or authenticate those that have tokens before they reach the API app",
  "metadata": {
    "version": "1.0.0",
    "category": "App Service"
  },
  "parameters": {
    "effect": {
      "type": "String",
      "metadata": {
        "displayName": "Effect",
        "description": "Enable or disable the execution of the policy"
      }
    },
    "details": {
      "type": "Microsoft.Web/sites/config",
      "name": "web",
      "existenceCondition": {
        "field": "Microsoft.Web/sites/config/siteAuthEnabled",
        "equals": "true"
      }
    }
  },
  "id": "/providers/Microsoft.Authorization/policyDefinitions/c4ebc54a-46e1-481a-bee2-4d411e95d828",
  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "c4ebc54a-46e1-481a-bee2-4d411e95d828"
},

"properties": {
  "displayName": "Microsoft Managed Control 1600 - Developer Security Testing And Evaluation",
  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this System and Services Acquisition control",
  "metadata": {
    "version": "1.0.0",
    "category": "Regulatory Compliance",
    "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1600"
  },
  "policyRule": {
    "if": {
      "allOf": [
        {
          "field": "type",
          "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
        },
        {
          "value": "false",
          "equals": "true"
        }
      ],
      "then": {
        "effect": "audit"
      }
    },
    "id": "/providers/Microsoft.Authorization/policyDefinitions/c53f3123-d233-44a7-930b-f40d3bfeb7d6",
    "type": "Microsoft.Authorization/policyDefinitions",
    "name": "c53f3123-d233-44a7-930b-f40d3bfeb7d6"
  }
},

"properties": {
  "displayName": "An activity log alert should exist for specific Policy operations",
  "policyType": "BuiltIn",
  "mode": "All",
  "description": "This policy audits specific Policy operations with no activity log alerts"}
configured.

...
Certificate thumbprints to include", "description": "A semicolon-separated list of certificate thumbprints to check under the specified path. If a value is not specified, all certificates under the certificate store path will be checked. If a value is specified, no certificates other than those with the thumbprints specified will be checked. e.g.

THUMBPRINT1;THUMBPRINT2;THUMBPRINT3", "defaultValue": "" },

"CertificateThumbprintsToExclude": {
"type": "String",
"metadata": {
"displayName": "[Preview]: Certificate thumbprints to exclude",
"description": "A semicolon-separated list of certificate thumbprints to ignore. e.g.

THUMBPRINT1;THUMBPRINT2;THUMBPRINT3", "defaultValue": "" },

"IncludeExpiredCertificates": {
"type": "String",
"metadata": {
"displayName": "[Preview]: Include expired certificates",
"description": "Must be "true" or "false". True indicates that any found certificates that have already expired will also make this policy non-compliant. False indicates that certificates that have expired will be ignored.",
"allowedValues": ["true", "false" ], "defaultValue": "false" },

"policyRule": {
"if": {
"anyOf": [
{"allOf": [{
"field": "type","equals": "Microsoft.Compute/virtualMachines" },
{"anyOf": [{
"field": "Microsoft.Compute/imagePublisher","in": ["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack" ] },
{"allOf": [{
"field": "Microsoft.Compute/imagePublisher","equals": "MicrosoftWindowsServer" },
{"field": "Microsoft.Compute/imageSKU","notLike": "2008*" } ] },
{"allOf": [{
"field": "Microsoft.Compute/imagePublisher","equals": "MicrosoftSQLServer" },
{"field": "Microsoft.Compute/imageOffer","notLike": "SQL2008*" } ] },
{"allOf": [{
"field": "Microsoft.Compute/imagePublisher","equals": "microsoft-dsvm" },
{"field": "Microsoft.Compute/imageOffer","equals": "dsvm-windows" } ] },
{"allOf": [{
"field": "Microsoft.Compute/imagePublisher","equals": "microsoft-ads" },
{"allOf": [{
"field": "Microsoft.Compute/imagePublisher","equals": "batch" },
{"field": "Microsoft.Compute/imageOffer","equals": "rendering-windows2016" } ] },
{"allOf": [{
"field": "Microsoft.Compute/imagePublisher","equals": "center-for-internet-security-inc" },
{"field": "Microsoft.Compute/imageOffer","like": "cis-windows-server-201*" } ] },
{"allOf": [{
"field": "Microsoft.Compute/imagePublisher","equals": "pivotal" },
{"field": "Microsoft.Compute/imageOffer","like": "bosh-windows-server*" } ] },
{"allOf": [{
"field": "Microsoft.Compute/imagePublisher","equals": "cloud-infrastructureservices" },
{"field": "Microsoft.Compute/imageOffer","like": "ad*" } ] },
{"allOf": [{
"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration","exists": "true" },
{"field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType","like": "Windows*" } ] },
{"allOf": [{
"field": "Microsoft.Compute/imageSKU","exists": "false" },
{"allOf": [{
"field": "Microsoft.Compute/imageSKU","notLike": "2008*" } ] } ] } ] } ],
"then": {
"effect": "deployIfNotExists",
"details": {
"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c" ],
"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "CertificateExpirationCondition", "existenceCondition": {
[CertificateStore]CertificateStore1;CertificateThumbprintsToInclude", ",", parameters("CertificateThumbprintsToInclude"), ",",

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"[CertificateStore]CertificateStore1;CertificateThumbprintsToExclude",
"="parameters("CertificateThumbprintsToExclude"), ",",
"[CertificateStore]CertificateStore1;IncludeExpiredCertificates",
"="parameters("IncludeExpiredCertificates")))]], "deployment": {"properties": {"mode": "incremental", "parameters": {"vmName": ":[field("name"))", "location": ":[field("location"))", "type": ":[field("type"))", "configurationName": ":[value": "[CertificateExpiration]", "CertificateStorePath": ":[value": parameters("CertificateStorePath"))", "ExpirationLimitInDays": ":[value": parameters("ExpirationLimitInDays"))", "CertificateThumbprintsToInclude": ":[value": parameters("CertificateThumbprintsToInclude"))", "CertificateThumbprintsToExclude": ":[value": parameters("CertificateThumbprintsToExclude"))", "IncludeExpiredCertificates": ":[value": parameters("IncludeExpiredCertificates"))
"="parameters("IncludeExpiredCertificates"))", "apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", "name": ":[concat(parameters("vmName"))],
"Microsoft.GuestConfiguration",
"parameters("configurationName"))", "location": ":[parameters("location"))", "properties": {"guestConfiguration": {"name": ":[parameters("configurationName"))", "version": "1.*", "configurationParameter": ":[name": "[CertificateStore]CertificateStore1;CertificateStorePath", "value": parameters("CertificateStorePath"))", "name": "[CertificateStore]CertificateStore1;ExpirationLimitInDays", "value": parameters("ExpirationLimitInDays"))", "name": "[CertificateStore]CertificateStore1;CertificateThumbprintsToInclude", "value": parameters("CertificateThumbprintsToInclude"))", "name": "[CertificateStore]CertificateStore1;CertificateThumbprintsToExclude", "value": parameters("CertificateThumbprintsToExclude"))", "name": "[CertificateStore]CertificateStore1;IncludeExpiredCertificates", "value": parameters("IncludeExpiredCertificates"))
"="parameters("IncludeExpiredCertificates"))", "apiVersion": "2018-11-20", "type": "Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments", "name": ":[concat(parameters("vmName"))],
"Microsoft.GuestConfiguration",
"parameters("configurationName"))", "location": ":[parameters("location"))", "properties": {"guestConfiguration": {"name": ":[parameters("configurationName"))", "version": "1.*", "configurationParameter": ":[name": "[CertificateStore]CertificateStore1;CertificateStorePath", "value": parameters("CertificateStorePath"))", "name": "[CertificateStore]CertificateStore1;ExpirationLimitInDays", "value": parameters("ExpirationLimitInDays"))", "name": "[CertificateStore]CertificateStore1;CertificateThumbprintsToInclude", "value": parameters("CertificateThumbprintsToInclude"))", "name": "[CertificateStore]CertificateStore1;CertificateThumbprintsToExclude", "value": parameters("CertificateThumbprintsToExclude"))", "name": "[CertificateStore]CertificateStore1;IncludeExpiredCertificates", "value": parameters("IncludeExpiredCertificates"))
"="parameters("IncludeExpiredCertificates"))", "apiVersion": "2019-07-01", "type": "Microsoft.Compute/virtualMachines", "identity": {"type": "SystemAssigned"}, "name": ":[parameters("vmName"))", "location": ":[parameters("location"))", "condition": ":[equals(toLower(parameters("type"))), toLower("Microsoft.Compute/virtualMachines"))]",
"Microsoft.GuestConfiguration",
"parameters("configurationName"))", "location": ":[parameters("location"))", "properties": {"guestConfiguration": {"name": ":[parameters("configurationName"))", "version": "1.*", "configurationParameter": ":[name": "[CertificateStore]CertificateStore1;CertificateStorePath", "value": parameters("CertificateStorePath"))", "name": "[CertificateStore]CertificateStore1;ExpirationLimitInDays", "value": parameters("ExpirationLimitInDays"))", "name": "[CertificateStore]CertificateStore1;CertificateThumbprintsToInclude", "value": parameters("CertificateThumbprintsToInclude"))", "name": "[CertificateStore]CertificateStore1;CertificateThumbprintsToExclude", "value": parameters("CertificateThumbprintsToExclude"))", "name": "[CertificateStore]CertificateStore1;IncludeExpiredCertificates", "value": parameters("IncludeExpiredCertificates"))
"dependsOn": ":[concat("Microsoft.GuestConfiguration", ":[concat(parameters("vmName")), "," ]
"resources": ":["AzurePolicyforWindows")
"dependsOn": ":[concat("Microsoft.GuestConfiguration", ":[concat(parameters("vmName")), "," ]
"resources": ":["AzurePolicyforWindows")
"dependsOn": ":[concat("Microsoft.GuestConfiguration", ":[concat(parameters("vmName")), "," ]
"resources": ":["AzurePolicyforWindows")
Microsoft implemented this System and Information Integrity control.

Managed Control 1190 - Configuration Change

Managed Control 1120 - Audit Review, Analysis, And Reporting | Integration

Managed Control 1125 - Audit Reduction And Report Generation

Deploy Diagnostic Settings for Recovery Services Vault to Log Analytics workspace for resource specific categories.

Deploy Diagnostic Settings for Recovery Services Vault to stream to Log Analytics workspace for Resource specific categories. If any of the Resource specific categories are not enabled, a new diagnostic setting is created.
Profile name","description":"The diagnostic settings profile
name"},"defaultValue":"setbypolicy_logAnalytics"},"logAnalytics":{"type":"String","metadata":{"displayName":"[
Preview]:
Log Analytics workspace","description":"Select Log Analytics workspace from
dropdown list. If this workspace is outside of the scope of the assignment
you must manually grant ''Log Analytics Contributor'' permissions (or similar)
to the policy assignment''s principal
ID.","strongType":"omsWorkspace","assignPermissions":true}},"tagName":{"type":"String","metadata":{"displayN
ame":"[Preview]:
Exclusion Tag Name","description":"Name of the tag to use for excluding vaults
from this policy. This should be used along with the Exclusion Tag Value
parameter."},"defaultValue":""},"tagValue":{"type":"String","metadata":{"displayName":"[Preview]:
Exclusion Tag Value","description":"Value of the tag to use for excluding
vaults from this policy. This should be used along with the Exclusion Tag
Name
parameter."},"defaultValue":""}},"policyRule":{"if":{"allof":[{"field":"type","equals":"Microsoft.RecoveryServices
/vaults"},{"not":{"field":"[concat(''tags['',parameters(''tagName''),
'']'')]","equals":"[parameters(''tagValue'')]"}}]},"then":{"effect":"deployIfNotExists","details":{"type":"Microsoft.In
sights/diagnosticSettings","existenceCondition":{"allof":[{"count":{"field":"Microsoft.Insights/diagnosticSettings/lo
gs[*]","where":{"allof":[{"field":"Microsoft.Insights/diagnosticSettings/logs[*].Category","in":["CoreAzureBackup
","AddonAzureBackupJobs","AddonAzureBackupAlerts","AddonAzureBackupPolicy","AddonAzureBackupStorag
e","AddonAzureBackupProtectedInstance"]},{"field":"Microsoft.Insights/diagnosticSettings/logs[*].Enabled","equa
ls":"True"}]}},"Equals":6},{"field":"Microsoft.Insights/diagnosticSettings/workspaceId","notEquals":""},{"field":"
Microsoft.Insights/diagnosticSettings/logAnalyticsDestinationType","equals":"Dedicated"}]},"roleDefinitionIds":["/
providers/microsoft.authorization/roleDefinitions/749f88d5-cbae-40b8-bcfce573ddc772fa","/providers/microsoft.authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3d43ce8d16293"],"deployment":{"properties":{"mode":"incremental","template":{"$schema":"http://schema.manage
ment.azure.com/schemas/2015-0101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"vaultName":{"type":"string"},"logAnaly
tics":{"type":"string"},"profileName":{"type":"string"}},"variables":{},"resources":[{"type":"Microsoft.RecoverySe
rvices/vaults/providers/diagnosticSettings","apiVersion":"2017-05-01preview","name":"[concat(parameters(''vaultName''),
''/'', ''Microsoft.Insights/'',
parameters(''profileName''))]","dependsOn":[],"properties":{"workspaceId":"[parameters(''logAnalytics'')]","logAnal
yticsDestinationType":"Dedicated","metrics":[],"logs":[{"category":"CoreAzureBackup","enabled":"true"},{"catego
ry":"AddonAzureBackupAlerts","enabled":"true"},{"category":"AddonAzureBackupJobs","enabled":"true"},{"cate
gory":"AddonAzureBackupPolicy","enabled":"true"},{"category":"AddonAzureBackupProtectedInstance","enabled
":"true"},{"category":"AddonAzureBackupStorage","enabled":"true"}]}}],"outputs":{"policy":{"type":"string","val
ue":"[concat(parameters(''logAnalytics''),
''configured for diagnostic logs for '', '': '', parameters(''vaultName''),
''/'', ''Microsoft.Insights/'',
parameters(''profileName''))]"}}},"parameters":{"logAnalytics":{"value":"[parameters(''logAnalytics'')]"},"vaultNa
me":{"value":"[field(''name'')]"},"profileName":{"value":"[parameters(''profileName'')]"}}}}}}}},"id":"/providers/
Microsoft.Authorization/policyDefinitions/c717fb0c-d118-4c43-ab3dece30ac81fb3","type":"Microsoft.Authorization/policyDefinitions","name":"c717fb0c-d118-4c43-ab3dece30ac81fb3"},{"properties":{"displayName":"Microsoft
Managed Control 1619 - Information In Shared
Resources","policyType":"Static","mode":"Indexed","description":"Microsoft

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implements this System and Communications Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1619"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true}],"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/c722e569-ch52-45f3-a643-836547d016e1","type":"Microsoft.Authorization/policyDefinitions","name":"c722e569-ch52-45f3-a643-836547d016e1"},"properties":{"displayName":"Microsoft Managed Control 1121 - Audit Review, Analysis, And Reporting | Correlation With Physical Monitoring","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Audit and Accountability control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1121"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true}],"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/c72b0eb9-1fc2-44e5-a866-e7cb5032f7c1","type":"Microsoft.Authorization/policyDefinitions","name":"c72b0eb9-1fc2-44e5-a866-e7cb5032f7c1"},"properties":{"displayName":"Authentication should be enabled on your Function app","policyType":"BuiltIn","mode":"Indexed","description":"Azure App Service Authentication is a feature that can prevent anonymous HTTP requests from reaching the Function app, or authenticate those that have tokens before they reach the Function app","metadata":{"version":"1.0.0","category":"App Service"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"details":{"type":"Microsoft.Web/sites/config","name":"web","existenceCondition":{"field":"Microsoft.Web/sites/config/siteAuthEnabled","equals":true}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/c75248c1-ea1d-4a9c-8fc9-29a6aab5da8","type":"Microsoft.Authorization/policyDefinitions","name":"c75248c1-ea1d-4a9c-8fc9-29a6aab5da8"},"properties":{"displayName":"Microsoft Managed Control 1353 - Incident Response Training","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1353"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true}],"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/c785ad59-f78f-44ad-9a7f-d1202318c748","type":"Microsoft.Authorization/policyDefinitions","name":"c785ad59-f78f-44ad-9a7f-d1202318c748"},"properties":{"displayName":"Email notifications to admins and subscription owners should be enabled in SQL server advanced data security settings","policyType":"BuiltIn","mode":"Indexed","description":"Audit notifications to admins and subscription owners should be enabled in SQL server advanced data security settings. This ensures that any detections of anomalous activities on SQL server are reported as soon as possible to the admins."},"metadata":{"version":"1.0.0","category":"SQL"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"}},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"details":{"type":"Microsoft.SqlServers/configs/sqlFirewallSettings","name":"sqlFirewallSettings","existenceCondition":{"field":"Microsoft.SqlServers/configs/sqlFirewallSettings/auditForAdminsAndSubscriptionOwners","equals":true}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/c785ad59-f78f-44ad-9a7f-d1202318c748","type":"Microsoft.Authorization/policyDefinitions","name":"c785ad59-f78f-44ad-9a7f-d1202318c748"},"properties":{"displayName":"Microsoft Managed Control 1502 - Audit Logs","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Audit and Accountability control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1502"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true}],"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/c785ad59-f78f-44ad-9a7f-d1202318c748","type":"Microsoft.Authorization/policyDefinitions","name":"c785ad59-f78f-44ad-9a7f-d1202318c748"},"properties":{"displayName":"Data loss prevention for Microsoft 365 data (Office 365 Data Loss Prevention)","policyType":null,"mode":null,"description":null,"metadata":null,"parameters":null,"policyRule":null,"id":null,"type":null,"name":null,"properties":null}}
Deploy Diagnostic Settings for Batch Account to Log Analytics workspace

the diagnostic settings for Batch Account to stream to a regional Log Analytics workspace when any Batch Account which is missing this diagnostic settings is created or updated.

If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment's principal ID.

Whether to enable metrics stream to the Log Analytics workspace - True or False

Whether to enable logs stream to the Log Analytics workspace - True or False
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AP*...
Show audit results from Windows VMs configurations in "User Rights Assignment", "policyType": "BuiltIn", "mode": "All", "description": "This
policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "User Rights Assignment". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":"1.0.0-preview","category":"Guest Configuration","preview":true},"policyRule":{"if":{"anyOf":[]}}}}}

The policy creates a Guest Configuration assignment to audit Windows virtual machines with a pending reboot. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"
Deploy Diagnostic Settings for Network Security Groups

This policy automatically deploys diagnostic settings to network security groups.

A storage account with name "[storagePrefixParameter] [NSGLocation]" will be automatically created.

The resource group that the storage account will be created in. This resource group must already exist.

Storage Account Prefix for Regional Storage Account

This prefix will be combined with the network security group location to form the created storage account name.

Resource Group Name for Storage Account (must exist)

The resource group that the storage account will be created in. This resource group must already exist.
accounts should allow access from trusted Microsoft services.

Some Microsoft services that interact with storage accounts operate from networks that can’t be granted access through network rules. To help this type of service work as intended, allow the set of trusted Microsoft services to bypass the network rules. These services will then use strong authentication to access the storage account.

The effect determines what happens when the policy rule is evaluated to match:

- **Audit**: The policy audits any App Configuration instance that does not use a private link.
- **AuditIfNotExists**: Enables or disables the execution of the policy.
- **Disabled**: Disables the execution of the policy.

Managed Control 1035 - Least Privilege | Authorize Access To Security Functions

Managed Control 1243 - Contingency Planning Policy And Procedures

Managed Control 1306 - Identification And Authentication (Org. Users) | Net.
Show audit results from Windows VMs in which the Administrators group does not contain only the specified members. This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines in which the Administrators group does not contain only the specified members. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Sensitive data in your SQL databases should be classified. Security Center monitors the data discovery and classification scan results for your SQL databases and provides recommendations to classify the sensitive data in your databases for better monitoring and security.
virtual machine size SKUs. The list of size SKUs that can be specified for virtual machines.

Managed Control 1443 - Media Use:

Microsoft implements this Media Protection control, which prevent unauthorized copying of media.

Inherit a tag from the resource group:

The [deprecated] policy allows resource creation if the "department" tag is set. Existing resources can be remediated by triggering a remediation task.

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Managed Control 1582 - Information System

Documentation”, “policyType”: “Static”, “mode”: “Indexed”, “description”: “Microsoft implements this System and Services Acquisition control”, “metadata”: {“version”: “1.0.0”, “category”: “Regulatory Compliance”, “additionalMetadataId”: “/providers/Microsoft.PolicyInsights/policyMetadata/ACF1582”}, “policyRule”: {“if”: “allOf”: [{“field”: “type”, “in”: [“Microsoft.Resources/subscriptions”, “Microsoft.Resources/subscriptions/resourceGroups”]}, {“value”: “false”, “equals”: “true”}], “then”: {“effect”: “audit”}}, “id”: “/providers/Microsoft.Authorization/policyDefinitions/cd9e2f38-259b-462c-bfad-0ad7ab4e65c5”}, “type”: “Microsoft.Authorization/policyDefinitions”, “name”: “cd9e2f38-259b-462c-bfad-0ad7ab4e65c5”}, “properties”: {“displayName”: “[Preview]: Show audit results from Windows VMs that allow re-use of the previous 24 passwords”, “policyType”: “BuiltIn”, “mode”: “All”, “description”: “This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that allow re-use of the previous 24 passwords.

implements this Audit and Accountability control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1104"},"policyRule ":{"if":[{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/cdd8d244-18b2-4306-a1d1-df175ae0935f","type":"Microsoft.Authorization/policyDefinitions","name":"cdd8d244-18b2-4306-a1d1-df175ae0935f"{"properties":{"displayName":"Deploy export to Event Hub for Azure Security Center alerts and recommendations","policyType":"BuiltIn","mode":"All","description":"Enable export to Event Hub of Azure Security Center alerts and/or recommendations. This policy deploys an export to Event Hub configuration with your conditions and target Event Hub on the assigned scope. To deploy this policy on newly created subscriptions, open the Compliance tab, select the relevant non-compliant assignment and create a remediation task."},"parameters":{"resourceGroupName":{"type":"String","metadata":{"displayName":"Resource group name","description":"The resource group name where the export to Event Hub configuration is created. If you enter a name for a resource group that doesn’t exist, it’ll be created in the subscription. Note that each resource group can only have one export to Event Hub configured."}},"resourceGroupLocation":{"type":"String","metadata":{"displayName":"Resource group location","description":"The location where the resource group and the export to Event Hub configuration are created."}},"exportedDataTypes":{"type":"Array","metadata":{"displayName":"Exported data types","description":"The data types to be exported. Example: Security recommendations;Security alerts;"}},"allowedValues":["Security recommendations","Security alerts"],"defaultValue":["Security recommendations","Security alerts"],"recommendationNames":{"type":"Array","metadata":{"displayName":"Recommendation IDs","description":"Applicable only for export of security recommendations. To export all recommendations, leave this empty. To export specific recommendations, enter a list of recommendation IDs separated by semicolons (";"). Recommendation IDs are available through the Assessments API (https://docs.microsoft.com/rest/api/securitycenter/assessments), or Azure Resource Graph Explorer (https://portal.azure.com/#blade/HubsExtension/ArgQueryBlade), choose securityresources and microsoft.security/assessments."},"defaultValue":[]},"recommendationSeverities":{"type":"Array","metadata":{"displayName":"Recommendation severities","description":"Applicable only for export of security recommendations. Determines recommendation severities. Example: High;Medium;Low;"}},"alertSeverities":{"type":"Array","metadata":{"displayName":"Alert severities","description":"Applicable only for export of security alerts. Determines alert severities. Example: High;Medium;Low;"}},"eventHubDetails":{"type":"String","metadata":{"displayName":"Event Hub details","description":"The Event Hub details of where the data should be exported to: Subscription, Event Hub Namespace, Event Hub, and Authorization rules with "Send" claim. If you do not already have an event hub, visit Event Hubs to create one (https://portal.azure.com/#blade/HubsExtension/BrowseResource/resourceType/Microsoft.EventHub%2Fnamespace..."}}}}}
parameters(''guidValue''))]","resourceGroup":"[parameters(''resourceGroupName'')]","dependsOn":["[resourceId(''M
icrosoft.Resources/resourceGroups/'',
parameters(''resourceGroupName''))]"],"properties":{"mode":"Incremental","template":{"$schema":"https://schema.
management.azure.com/schemas/2015-0101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{},"variables":{},"resources":[{"tags":{},"
apiVersion":"2019-01-01preview","location":"[parameters(''resourceGroupLocation'')]","name":"exportToEventHub","type":"Microsoft.Secu
rity/automations","dependsOn":[],"properties":{"description":"Export
Azure Security Center alerts and/or recommendations to Event Hub via
policy","isEnabled":true,"scopes":[{"description":"[replace(variables(''scopeDescription''),''{0}'',
subscription().subscriptionId)]","scopePath":"[subscription().id]"}],"copy":[{"name":"sources","count":"[variables(''
exportedDataTypesLengthIfEmpty'')]","input":{"eventSource":"[variables(''dataTypeMap'')[parameters(''exportedDa
taTypes'')[copyIndex(''sources'')]]]","ruleSets":"[if(equals(parameters(''exportedDataTypes'')[copyIndex(''sources'')],
''Security recommendations''), variables(''ruleSetsForAssessmentsObj'').ruleSetsForAssessmentsArr,
variables(''ruleSetsForAlertsObj'').ruleSetsForAlertsArr)]"}}],"actions":[{"actionType":"EventHub","eventHubReso
urceId":"[concat(''/'',
variables(''SeperatedEventHubDetails'')[1], ''/'', variables(''SeperatedEventHubDetails'')[2],
''/'', variables(''SeperatedEventHubDetails'')[3], ''/'', variables(''SeperatedEventHubDetails'')[4],
''/'', variables(''SeperatedEventHubDetails'')[5], ''/'', variables(''SeperatedEventHubDetails'')[6],
''/'', variables(''SeperatedEventHubDetails'')[7], ''/'', variables(''SeperatedEventHubDetails'')[8],
''/'', variables(''SeperatedEventHubDetails'')[9], ''/'',
variables(''SeperatedEventHubDetails'')[10])]","connectionString":"[listkeys(parameters(''eventHubDetails''),''20170401'').primaryConnectionString]"}]}}]}}}]},"parameters":{"resourceGroupName":{"value":"[parameters(''resourceG
roupName'')]"},"resourceGroupLocation":{"value":"[parameters(''resourceGroupLocation'')]"},"exportedDataTypes
":{"value":"[parameters(''exportedDataTypes'')]"},"recommendationNames":{"value":"[parameters(''recommendatio
nNames'')]"},"recommendationSeverities":{"value":"[parameters(''recommendationSeverities'')]"},"alertSeverities":
{"value":"[parameters(''alertSeverities'')]"},"eventHubDetails":{"value":"[parameters(''eventHubDetails'')]"}}}}}}}
},"id":"/providers/Microsoft.Authorization/policyDefinitions/cdfcce10-4578-4ecd-9703530938e4abcb","type":"Microsoft.Authorization/policyDefinitions","name":"cdfcce10-4578-4ecd-9703530938e4abcb"},{"properties":{"displayName":"[Preview]:
Deploy prerequisites to audit Windows VMs configurations in ''System Audit
Policies - Privilege Use''","policyType":"BuiltIn","mode":"Indexed","description":"This
policy creates a Guest Configuration assignment to audit Windows virtual machines
with non-compliant settings in Group Policy category: ''System Audit Policies
- Privilege Use''. It also creates a system-assigned managed identity and
deploys the VM extension for Guest Configuration. This policy should only
be used along with its corresponding audit policy in an initiative. For more
information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":"1.1.0preview","category":"Guest
Configuration","requiredProviders":["Microsoft.GuestConfiguration"],"preview":true},"policyRule":{"if":{"anyOf":
[{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines"},{"anyOf":[{"field":"Microsoft.Compute/
imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudi
o","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]},{"allOf":[{"field":"Microsoft.Compute/im
agePublisher","equals":"MicrosoftWindowsServer"},{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"}]
},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftSQLServer"},{"field":"Microsoft.Co
mpute/imageOffer","notLike":"SQL2008*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"m
icrosoft-dsvm"},{"field":"Microsoft.Compute/imageOffer","equals":"dsvm-

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Managed Control 1209 - Configuration

Settings*, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1209"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/cc669c31-9103-4552-ae9c-cdef4e03580d", "type": "Microsoft.Authorization/policyDefinitions", "name": "cc669c31-9103-4552-ae9c-cdef4e03580d"}, {"properties": {"displayName": "Microsoft Managed Control 1209 - Configuration Settings", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1209"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/cc669c31-9103-4552-ae9c-cdef4e03580d", "type": "Microsoft.Authorization/policyDefinitions", "name": "cc669c31-9103-4552-ae9c-cdef4e03580d"}, {"properties": {"displayName": "Microsoft Managed Control 1242 - Contingency Planning Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1242"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/ce63293-667a-445e-a722-fa0bac958", "type": "Microsoft.Authorization/policyDefinitions", "name": "ce63293-667a-445e-a722-fa0bac958"}, {"properties": {"displayName": "Microsoft Managed Control 1097 - Role-Based Security Training | Suspicious Communications And Anomalous System Behavior", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Awareness and Training control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1097"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/cf3e4836-f19e-47eb-a8cd-c3ca150452e0", "type": "Microsoft.Authorization/policyDefinitions", "name": "cf3e4836-f19e-47eb-a8cd-c3ca150452e0"}, {"properties": {"displayName": "Microsoft Managed Control 1424 - Maintenance Personnel | Individuals Without Appropriate Access", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1424"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/cf55fc87-48e1-4676-a2f8-d9a8cf993283", "type": "Microsoft.Authorization/policyDefinitions", "name": "cf55fc87-48e1-4676-a2f8-d9a8cf993283"}, {"properties": {"displayName": "Diagnostic logs in Key Vault should be enabled", "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes when a security incident occurs or when your network is compromised", "metadata": {"version": "2.0.0", "category": "Key Vault"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}, "requiredRetentionDays": {"type": "String", "metadata": {"displayName": "Required retention (days)", "description": "The required diagnostic logs retention in days"}, "defaultValue": "365"}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.KeyVault/vaults"}, "then": {"effect": {"parameters(\"effect\")"}}}, "details": {"type": "Microsoft.Insights/diagnosticSettings", "existenceCondition": "cou
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- **Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled**: If `true`, the retention policy is enabled. If `false`, the retention policy is disabled.
- **Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.days**: Specifies the number of days for log retention. If set to 0, logs are kept indefinitely.
- **parameters('requiredRetentionDays')**: A parameter that defaults to the required retention days.
- **Microsoft.Insights/diagnosticSettings/logs.enabled**: If `true`, diagnostic settings for logs are enabled. If `false`, they are disabled.

**Managed Control 1292 - Information System Backup | Test Restoration Using Sampling**

This policy ensures that Microsoft implements its contingency planning control. It checks if the system is configured to enable or disable test restoration using sampling. The policy is indexed and the effect is set to `audit`.

**Managed Control 1724 - Error Handling**

This policy ensures that Microsoft implements its error handling system and integrity control. It checks if the system is configured to enable error handling. The policy is indexed and the effect is set to `audit`.

**Container Registries should not allow unrestricted network access**

This policy checks if container registries do not have any network (IP or VNET) rules configured and allow all network access by default. It also checks if there is at least one IP / Firewall rule or virtual network configured. The policy is indexed and the effect is set to `Audit`.

**Managed Control 1084 - Publicly Accessible Content**

This policy ensures that Microsoft implements its access control content. It checks if the system is configured to enable or disable the execution of the policy. The policy is indexed and the effect is set to `Audit`.

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For more information on Container Registry Network rules, please visit: [https://aka.ms/acr/vnet](https://aka.ms/acr/vnet). For more information on Container Registry Network rules, please visit: [https://aka.ms/acr/vnet](https://aka.ms/acr/vnet).
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or replace a tag on resource groups","policyType":"BuiltIn","mode":"All","description":"Adds or replaces the specified tag and value when any resource group is created or updated. Existing resource groups can be remediated by triggering a remediation task.","metadata":{"version":"1.0.0","category":"Tags"},"parameters":{"tagName":{"type":"String","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"displayName":"Tag Name","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"parameters":{"tagName":{"type":"String","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"displayName":"Tag Name","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"parameters":{"tagName":{"type":"String","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"displayName":"Tag Name","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"parameters":{"tagName":{"type":"String","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"displayName":"Tag Name","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"parameters":{"tagName":{"type":"String","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"displayName":"Tag Name","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"parameters":{"tagName":{"type":"String","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"displayName":"Tag Name","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"parameters":{"tagName":{"type":"String","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"displayName":"Tag Name","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"parameters":{"tagName":{"type":"String","description":"Name of the tag, such as "environment""},"tagValue":{"type":"String","description":"Value of the tag, such as "production""},"displayName":null,"description":null,"parameters":null,"id":null,"type":null,"name":null,"properties":null,"policyRule":null,"then":null,"id":null,"type":null,"name":null,"properties":null,"policyRule":null,"then":null,"id":null,"type":null,"name":null,"properties":null,"policyRule":null,"then":null,"id":null,"type":null,"name":null,"properties":null,"policyRule":null,"then":null,"id":null,"type":null,"name":null,"properties":null,"policyRule":null,"then":null,}
Microsoft Managed Control 1030 - Information Flow Enforcement | Physical / Logical Separation

Of Information Flows, policyType: Static, mode: Indexed, description: Microsoft implements this Access Control control, metadata: version: 1.0.0, category: Regulatory Compliance, additionalMetadataId: /providers/Microsoft.Authorization/policyDefinitions/d2b4f6ea-61ab-423f-a4c5-0e38ac464d86, type: Microsoft.Authorization/policyDefinitions, name: d2b4f6ea-61ab-423f-a4c5-0e38ac464d86, properties: displayName: Microsoft

Managed Control 1030 - Information Flow Enforcement | Physical / Logical Separation

Of Information Flows, policyType: Static, mode: Indexed, description: Microsoft implements this Access Control control, metadata: version: 1.0.0, category: Regulatory Compliance, additionalMetadataId: /providers/Microsoft.Authorization/policyDefinitions/d2b4f6ea-61ab-423f-a4c5-0e38ac464d86, type: Microsoft.Authorization/policyDefinitions, name: d2b4f6ea-61ab-423f-a4c5-0e38ac464d86, properties: displayName: Microsoft

Deploy prerequisites to audit Windows VMs on which the DSC configuration is not compliant, policyType: BuiltIn, mode: Indexed, description: This policy creates a Guest Configuration assignment to audit Windows VMs on which the Desired State Configuration (DSC) configuration is not compliant. This policy is only applicable to machines with WMF 4 and above. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol, metadata: version: 1.1.0-preview, category: Guest Configuration, requiredProviders: [Microsoft.GuestConfiguration], preview: true, policyRule: if: anyOf: ["Microsoft.Compute/virtualMachines", "Microsoft.Compute/imagePublisher", "Microsoft.Compute/imageOffer", "Microsoft.WindowsServerHPCPack", "Microsoft.WindowsDesktop", "Microsoft.WindowsServer", "Microsoft.GuestConfiguration/guestConfigurationAssignments", "Microsoft.GuestConfiguration/deployment"], then: deployIfNotExists, details: roleDefinitionIds: /providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c, type: Microsoft.GuestConfiguration/guestConfigurationAssignments, name: WindowsDscConfiguration, deployment: properties: mode: incremental, parameters: vmName: value: field(name)
Open Source Used In SDWan 20.7.1

Managed Control 1112 - Response To Audit Processing

Failures’, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1112" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}}, "then": {"effect": "audit"}}}, "id": "providers/Microsoft.Authorization/policyDefinitions/d530aad8-4ee2-45f4-b234-c061dae683c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "d530aad8-4ee2-45f4-b234-c061dae683c0" }, {"properties": {"displayName": "Microsoft Managed Control 1112 - Response To Audit Processing Failures’, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1112" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}}, "then": {"effect": "audit"}}}, "id": "providers/Microsoft.Authorization/policyDefinitions/d530aad8-4ee2-45f4-b234-c061dae683c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "d530aad8-4ee2-45f4-b234-c061dae683c0" }, {"properties": {"displayName": "Microsoft Managed Control 1112 - Response To Audit Processing Failures’, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1112" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}}, "then": {"effect": "audit"}}}, "id": "providers/Microsoft.Authorization/policyDefinitions/d530aad8-4ee2-45f4-b234-c061dae683c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "d530aad8-4ee2-45f4-b234-c061dae683c0" }, {"properties": {"displayName": "Microsoft Managed Control 1112 - Response To Audit Processing Failures’, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1112" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}}, "then": {"effect": "audit"}}}, "id": "providers/Microsoft.Authorization/policyDefinitions/d530aad8-4ee2-45f4-b234-c061dae683c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "d530aad8-4ee2-45f4-b234-c061dae683c0" }, {"properties": {"displayName": "Microsoft Managed Control 1112 - Response To Audit Processing Failures’, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1112" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}}, "then": {"effect": "audit"}}}, "id": "providers/Microsoft.Authorization/policyDefinitions/d530aad8-4ee2-45f4-b234-c061dae683c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "d530aad8-4ee2-45f4-b234-c061dae683c0" }, {"properties": {"displayName": "Microsoft Managed Control 1112 - Response To Audit Processing Failures’, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1112" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}}, "then": {"effect": "audit"}}}, "id": "providers/Microsoft.Authorization/policyDefinitions/d530aad8-4ee2-45f4-b234-c061dae683c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "d530aad8-4ee2-45f4-b234-c061dae683c0" }, {"properties": {"displayName": "Microsoft Managed Control 1112 - Response To Audit Processing Failures’, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1112" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}}, "then": {"effect": "audit"}}}, "id": "providers/Microsoft.Authorization/policyDefinitions/d530aad8-4ee2-45f4-b234-c061dae683c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "d530aad8-4ee2-45f4-b234-c061dae683c0" }, {"properties": {"displayName": "Microsoft Managed Control 1112 - Response To Audit Processing Failures’, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1112" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}}, "then": {"effect": "audit"}}}, "id": "providers/Microsoft.Authorization/policyDefinitions/d530aad8-4ee2-45f4-b234-c061dae683c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "d530aad8-4ee2-45f4-b234-c061dae683c0" }, {"properties": {"displayName": "Microsoft Managed Control 1112 - Response To Audit Processing Failures’, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1112" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}}, "then": {"effect": "audit"}}}, "id": "providers/Microsoft.Authorization/policyDefinitions/d530aad8-4ee2-45f4-b234-c061dae683c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "d530aad8-4ee2-45f4-b234-c061dae683c0" }.
Managed Control 1585 - Security Engineering Principles

"policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1585"},"policyRule ":{"if":{"allOf":["field":"type","in":[]]}}

Managed Control 1667 - System And Information Integrity Policy And Procedures

"policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1667"},"policyRule ":{"if":{}}

Managed Control 1150 - Security Assessments | External Organizations

"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Security Assessment and Authorization control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1150"},"policyRule ":{"if":{}}

Hub should use a virtual network service endpoint

"policyType":"BuiltIn","mode":"Indexed","description":"This policy audits any Event Hub not configured to use a virtual network service endpoint","metadata":{"version":null,"category":"Network"}}
Managed Control 1549 - Vulnerability

 implements this Risk Assessment control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1549"}, "policyRule": 
 

Managed Control 1473 - Emergency Power

 implements this Physical and Environmental Protection control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1473"}, "policyRule": 

Managed Control 1529 - Third-Party Personnel Security

 implements this Personnel Security control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1529"}, "policyRule": 

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Managed Control 1350 - Identification And Authentication (Non-Org. Users)


| Managed Control 1016 - Account Management | Automated Audit
Microsoft implements this Access Control control,"metadata":{"version":"1.0.0"},"category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1016"},"policyRule":{"if":["allOf":[{"field":"type","in":[]}]},{"value":false,"equals":true},then:{"effect":"audit"}},{"id":"/providers/Microsoft.Authorization/policyDefinitions/d8b43277-512e-40c3-ab00-14b3b6f32228"},"type":"Microsoft.Authorization/policyDefinitions","name":"d8b43277-512e-40c3-ab00-14b3b6f32228"},{"properties":{"displayName":"Microsoft Managed Control 1488 - Alternate Work Site","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Physical and Environmental Protection control","metadata":{"version":"1.0.0"},"category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1488"},"policyRule":{"if":["allOf":[{"field":"type","in":[]}]},{"value":false,"equals":true},then:{"effect":"audit"}},{"id":"/providers/Microsoft.Authorization/policyDefinitions/d8ef30eb-a44f-47af-8524-ac19a36d41d2"},"type":"Microsoft.Authorization/policyDefinitions","name":"d8ef30eb-a44f-47af-8524-ac19a36d41d2"},{"properties":{"displayName":"Microsoft Managed Control 1577 - Acquisition Process | Continuous Monitoring Plan","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{"version":"1.0.0"},"category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1577"},"policyRule":{"if":["allOf":[{"field":"type","in":[]}]},{"value":false,"equals":true},then:{"effect":"audit"}},{"id":"/providers/Microsoft.Authorization/policyDefinitions/d922484a-8cfc-4a6b-95a4-77d6a6f32228"},"type":"Microsoft.Authorization/policyDefinitions","name":"d922484a-8cfc-4a6b-95a4-77d6a6f32228"},{"properties":{"displayName":"Public network access should be disabled for MySQL servers","policyType":"BuiltIn","mode":"Indexed","description":"This policy audits MySQL servers in your environment with public network access enabled. For more details, visit https://go.microsoft.com/fwlink/?linkid=2120014","metadata":{"version":"1.0.0"},"category":"SQL"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"}},"allowedValues":["Audit","Disabled"],"defaultValue":"Audit"},"policyRule":{"if":["allOf":[{"field":"type","equals":"Microsoft.DBforMySQL/servers"}]},"then":{"effect":"[parameters(''effect'')]"}},{"id":"/providers/Microsoft.Authorization/policyDefinitions/d9844e8a-1437-4aeb-a32c-0c992f056095"},"type":"Microsoft.Authorization/policyDefinitions","name":"d9844e8a-1437-4aeb-a32c-0c992f056095"},{"properties":{"displayName":"Microsoft Managed Control 1271 - Alternate Storage Site | Accessibility"},"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Contingency Planning control","metadata":{"version":"1.0.0"},"category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1271"},"policyRule":{"if":["allOf":[{"field":"type","in":[]}]},{"value":false,"equals":true},then:{"effect":"audit"}},{"id":"/providers/Microsoft.Authorization/policyDefinitions/da3bfb53-9c46-4010-b3db-0c992f056095"}}
Managed Control 1516 - Personnel Termination

Microsoft implements this Personnel Security control.

Microsoft Managed Control 1516 - Personnel Termination

Microsoft implements this Personnel Security control.

Deploy Diagnostic Settings for Batch Account to Event Hub

Deals the diagnostic settings for Batch Account to stream to a regional Event Hub when any Batch Account which is missing this diagnostic settings is created or updated.

Deploy Diagnostic Settings for Batch Account to Event Hub

Deals the diagnostic settings for Batch Account to stream to a regional Event Hub when any Batch Account which is missing this diagnostic settings is created or updated.

Event Hub Authorization Rule Id

Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. e.g. /subscriptions/{subscription Id}/resourceGroups/{resource group}/providers/Microsoft.EventHub/namespaces/{Event Hub namespace}/authorizationrules/{authorization rule}.

Event Hub Authorization Rule Id

Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. e.g. /subscriptions/{subscription Id}/resourceGroups/{resource group}/providers/Microsoft.EventHub/namespaces/{Event Hub namespace}/authorizationrules/{authorization rule}.

Event Hub Location

The location the Event Hub resides in. Only Batch Accounts in this location will be linked to this Event Hub.

Event Hub Location

The location the Event Hub resides in. Only Batch Accounts in this location will be linked to this Event Hub.

Enable metrics

Whether to enable metrics stream to the Event Hub - True or False.

Enable logs

Whether to enable logs stream to the Event Hub - True or False.


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Open Source Used In SDWan

Managed Control 1678 - Malicious Code Protection

- Policy Type: "Static", mode: "Indexed", description: "Microsoft implements this System and Information Integrity control",
- metadata: "version": "1.0.0", category: "Regulatory Compliance",
- additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1678"

Managed Control 1391 - Information Spillage Response | Training

- Policy Type: "Static", mode: "Indexed", description: "Microsoft implements this Incident Response control",
- metadata: "version": "1.0.0", category: "Regulatory Compliance",
- additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1391"

Managed Control 1146 - Security Assessments

- Policy Type: "Static", mode: "Indexed", description: "Microsoft implements this Security Assessment and Authorization control",
- metadata: "version": "1.0.0", category: "Regulatory Compliance",
- additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1146"

Managed Control 1602 - Developer Security Testing And Evaluation

- Policy Type: "Static", mode: "Indexed", description: "Microsoft implements this System and Services Acquisition control",
- metadata: "version": "1.0.0", category: "Regulatory Compliance",
- additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1602"

Show audit results from Windows VMs configurations in "Security Settings - Account Policies". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of...
Guest Configuration policies, please visit https://aka.ms/gcpol”, “metadata”: {
  "version": "1.0.0-preview", 
  "category": "Guest Configuration", 
  "preview": true 
}, 
  "policyRule": {
    "if": {
      "anyOf": [
        {
          "allOf": [
            {
              "field": "type", 
              "equals": "Microsoft.Compute/virtualMachines" 
            },
            {
              "anyOf": [
                {
                  "field": "Microsoft.Compute/imagePublisher", 
                  "allOf": [
                    {
                      "field": "Microsoft.Compute/imagePublisher", 
                      "equals": "MicrosoftWindowsServer" 
                    },
                    {
                      "field": "Microsoft.Compute/imageSKU", 
                      "notLike": "2008*" 
                    },
                    {
                      "allOf": [
                        {
                          "field": "Microsoft.WindowsCompute/imagePublisher", 
                          "equals": "MicrosoftSQLServer" 
                        },
                        {
                          "field": "Microsoft.Compute/imageOffer", 
                          "notLike": "SQL2008*" 
                        }
                      ],
                      "allOf": [
                        {
                          "field": "Microsoft.Compute/imagePublisher", 
                          "equals": "microsoft-dsvm" 
                        },
                        {
                          "field": "Microsoft.Compute/imageOffer", 
                          "equals": "dsvm-windows" 
                        }
                      ],
                      "allOf": [
                        {
                          "field": "Microsoft.Compute/imagePublisher", 
                          "equals": "microsoft-ads" 
                        },
                        {
                          "field": "Microsoft.Compute/imageOffer", 
                          "in": ["standard-data-science-vm", "windows-data-science-vm"] 
                        }
                      ],
                      "allOf": [
                        {
                          "field": "Microsoft.Compute/imagePublisher", 
                          "equals": "batch" 
                        },
                        {
                          "field": "Microsoft.Compute/imageOffer", 
                          "equals": "rendering-windows2016" 
                        }
                      ],
                      "allOf": [
                        {
                          "field": "Microsoft.Compute/imagePublisher", 
                          "equals": "center-for-internet-security-inc" 
                        },
                        {
                          "field": "Microsoft.Compute/imageOffer", 
                          "like": "cis-windows-server-201*" 
                        }
                      ],
                      "allOf": [
                        {
                          "field": "Microsoft.Compute/imagePublisher", 
                          "equals": "pivotal" 
                        },
                        {
                          "field": "Microsoft.Compute/imageOffer", 
                          "like": "bosh-windows-server*" 
                        }
                      ],
                      "allOf": [
                        {
                          "field": "Microsoft.Compute/imagePublisher", 
                          "equals": ["cloud-infrastructure-services"] 
                        },
                        {
                          "field": "Microsoft.Compute/imageOffer", 
                          "like": "ad*" 
                        }
                      ],
                      "allOf": [
                        {
                          "anyOf": [
                            {
                              "field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", 
                              "exists": true 
                            },
                            {
                              "field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType", 
                              "like": "Windows*" 
                            },
                            {
                              "anyOf": [
                                {
                                  "field": "Microsoft.WindowsCompute/imageSKU", 
                                  "exists": false 
                                },
                                {
                                  "allOf": [
                                    {
                                      "field": "Microsoft.WindowsCompute/imageSKU", 
                                      "notLike": "2008*" 
                                    },
                                    {
                                      "field": "Microsoft.WindowsCompute/imageOffer", 
                                      "notLike": "SQL2008*" 
                                    }
                                  ],
                                  "allOf": [
                                    {
                                      "field": "type", 
                                      "equals": "Microsoft.HybridCompute/machines" 
                                    },
                                    {
                                      "field": "Microsoft.HybridCompute/imageOffer", 
                                      "like": "windows*" 
                                    }
                                  ],
                                  "then": {
                                    "effect": "auditIfNotExists", 
                                    "details": {
                                      "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", 
                                      "name": "AzureBaseline_SecuritySettingsAccountPolicies", 
                                      "existenceCondition": {
                                        "field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus", 
                                        "equals": "Compliant" 
                                      } 
                                    },
                                    "id": "/providers/Microsoft.Authorization/policyDefinitions/ddb5361-9db4-41d4-a953-2a8f5b66c12", 
                                    "type": "Microsoft.Authorization/policyDefinitions", 
                                    "name": "ddb5361-9db4-41d4-a953-2a8f5b66c12", 
                                    "properties": {
                                      "displayName": "[Preview]:
                                        Deploy prerequisites to audit Windows VMs configurations in "Security Options - Recovery console".
                                      
                                        This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Recovery console". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", 
                                      "metadata": {
                                        "version": "1.1.0-preview", 
                                        "category": "Guest Configuration", 
                                        "requiredProviders": ["Microsoft.GuestConfiguration"], 
                                        "preview": true 
                                      }, 
                                      "parameters": {
                                        "RecoveryConsoleAllowFloppyCopyAndAccessToAllDrivesAndAllFolders": {
                                          "type": "String", 
                                          "metadata": {
                                            "displayName": "[Preview]:
                                              Recovery console: Allow floppy copy and access to all drives and all folders.
                                            
                                            This specifies whether to make the Recovery Console SET command available, which allows setting of recovery console environment variables.
                                          },
                                          "defaultValue": "0" 
                                        },
                                        "policyRule": {
                                          "if": {
                                            "anyOf": [
                                              {
                                                "field": "type", 
                                                "equals": "Microsoft.Comput
Open Source Used In SDWan 20.7.1  8803

...
Managed Control 1689 - Information System Monitoring

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1689" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true" }], "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/de901f2f-a01a-4456-97f0-33cda7966172" }, {"properties": {"displayName": "[Preview]: Deploy Dependency agent to hybrid Linux Azure Arc machines", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy deploys the Dependency agent to Linux Azure Arc machines if the agent isn’t installed.", "metadata": {"version": "1.0.0-preview", "category": "Monitoring", "preview": true }, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.HybridCompute/machines" }], "then": {"effect": "deployIfNotExists", "details": {"field": "Microsoft.HybridCompute/machines/extensions", "roleDefinitionIds": ["/providers/Microsoft.Authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3-d43ce8d16293"], "existenceCondition": {"allOf": [{"field": "Microsoft.HybridCompute/imageOffer", "like": "linux*" }]}, "properties": {"mode": "incremental", "template": {"$schema": "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"vmName": {"type": "string" }, "location": {"type": "string" }}, "variables": {"vmExtensionName": "DependencyAgent", "dependencyAgentPublisher": "Microsoft.Azure.Monitoring.DependencyAgent", "dependencyAgentType": "DependencyAgentLinux", "resourceGroup": "[concat(parameters('vmName'), '-dependencyAgent')]", "resourceLocation": parameters('location') }}, "apiVersion": "2019-07-01", "type": "Microsoft.Compute/virtualMachines", "identity": {"type": "SystemAssigned" }, "dependsOn": ["Microsoft.GuestConfiguration/guestConfigurationAssignments('[concat(parameters('vmName'), parameters('configurationName'))]', [parameters('location')]), {"guestConfiguration": {"name": parameters('configurationName'), "version": "1.*", "configurationParameter": {"name": "Recovery console: Allow floppy copy and access to all drives and all folders: ExpectedValue", "value": parameters('RecoveryConsoleAllowFloppyCopyAndAccessToAllDrivesAndAllFolders') }}, {"condition": equals(toLower(parameters('type')), toLower("Microsoft.Compute/virtualMachines")), "apiVersion": "2015-05-01-preview"}, {"condition": equals(toLower(parameters('type')), toLower("Microsoft.Compute/virtualMachines")), "apiVersion": "2015-05-01-preview"}]
}]]}}]
} } } ] }}
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Open Source Used In SDWan 20.7.1

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Microsoft Managed Control 1206 - Access Restrictions For Change | Limit Production / Operational Privileges", "policyType":"Static","mode":"Indexed","description":"Microsoft implements this Configuration Management control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1206"},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.DocumentDB/databaseAccounts"},"virtualNetworkRules[*].id","exists":"false"]},"then":{"effect":"audit"},"id":"/providers/Microsoft.Authorization/policyDefinitions/e0de232d-02a0-4652-872d-88af4ae5e91"},

Deploy prerequisites to audit Windows VMs that do not have the specified Windows PowerShell execution policy", "policyType":"BuiltIn","mode":"Indexed","description":"This policy creates a Guest Configuration assignment to audit Windows virtual machines where Windows PowerShell is not configured to use the specified PowerShell execution policy. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata":{"version":"1.1.0","category":"Guest Configuration","requiredProviders":["Microsoft.GuestConfiguration"]},"parameters":{"ExecutionPolicy":{"type":"String","metadata":{"displayName":"PowerShell Execution Policy","description":"The expected PowerShell execution policy."},"allowedValues":["AllSigned", "Bypass", "Default", "RemoteSigned", "Restricted", "Undefined", "Unrestricted"]},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines"},"anyOf":[{"field":"Microsoft.Compute/imagePublisher","in":["esri", "incredibuild", "MicrosoftDynamicsAX", "MicrosoftSharepoint", "MicrosoftVirtualStudio", "MicrosoftWindowsDesktop", "MicrosoftWindowsServerHPCPack"]},"anyOf":[]]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},"anyOf":[{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"microsoft-dsvm"},"anyOf":[{"field":"Microsoft.Compute/imageOffer","equals":"dsvm-windows"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"microsoft-ads"},"anyOf":[{"field":"Microsoft.Compute/imageOffer","notLike":"[standard-data-science-vm, windows-data-science-vm]"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"batch"},"anyOf":[{"field":"Microsoft.Compute/imageOffer","equals":"rendering-
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Managed Control 1047 - System Use Notification", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1047" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups", "Microsoft.Authorization/policyDefinitions/e1ff6d62-a55c-41ab-90ba-90bb57b66f62", "type": "Microsoft.Authorization/policyDefinitions", "name": "e1ff6d62-a55c-41ab-90ba-90bb57b66f62" }], "value": "false", "equals": "true" }, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/e1ff6d62-a55c-41ab-90ba-90bb57b66f62" }, "properties": {"displayName": "Microsoft Managed Control 1276 - Alternate Processing Site | Accessibility", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1276" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups", "Microsoft.Authorization/policyDefinitions/e214e563-1206-4a43-a56b-ac5880c9c571", "type": "Microsoft.Authorization/policyDefinitions", "name": "e214e563-1206-4a43-a56b-ac5880c9c571" }], "value": "false", "equals": "true" }, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/e214e563-1206-4a43-a56b-ac5880c9c571" }, "properties": {"displayName": "Microsoft Managed Control 1560 - System And Services Acquisition Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1560" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups", "Microsoft.Authorization/policyDefinitions/e29e0915-5c2f-4d09-8806-048b749ad763", "type": "Microsoft.Authorization/policyDefinitions", "name": "e29e0915-5c2f-4d09-8806-048b749ad763" }], "value": "false", "equals": "true" }, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/e29e0915-5c2f-4d09-8806-048b749ad763" }, "properties": {"displayName": "Ensure that "HTTP Version" is the latest, if used to run the Function app", "policyType": "BuiltIn", "mode": "Indexed", "description": "Periodically, newer versions are released for HTTP either due to security flaws or to include additional functionality. Using the latest HTTP version for web apps to take advantage of security fixes, if any, and/or new functionalities of the newer version.", "metadata": {"version": "1.0.0", "category": "App Service" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy" }, "allowedValues": [{"AuditIfNotExist": "Disabled" }, "defaultValue": "AuditIfNotExist" ] }, "policyRule": {"if": {"allOf": [{"field": "type", "equal": "Microsoft.Web/sites" }, "field": "kind", "like": "functionapp*" }], "then": {"effect": ["parameters\[\"effect\]\]" }, "details": {"type": "Microsoft.Web/sites/config", "name": "web", "existenceCondition": {"field": "Microsoft.Web/sites/config/web.http20Enabled", "equals": "true" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/e2c1c086-2d84-4019-bff3-c44ccd95113c", "type": "Microsoft.Authorization/policyDefinitions", "name": "e2c1c086-2d84-4019-bff3-c44ccd95113c" }, "properties": {"displayName": "Audit Dependency agent deployment in virtual machine scale sets - VM Image (OS) unlisted", "policyType": "BuiltIn", "mode": "Indexed", "description": "Reports virtual machine scale sets as non-compliant if the VM Image (OS) is not in the list defined and the agent is not installed. The list of OS images will be updated over time as support is
Managed Control 1161 - Continuous Monitoring

Managed Control 1387 - Information Spillage Response

Managed Control 1479 - Fire Protection | Automatic Fire Suppression

Managed Control 1479 - Fire Protection | Automatic Fire Suppression

VPN gateways should not use "basic" SKU,
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Show audit results from Windows VMs configurations in "Security Options - Shutdown". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Shutdown". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Deploy prerequisites to audit Windows VMs configurations in "Security Settings - Account Policies". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Settings - Account Policies". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

```

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ordLength":{"type":"string"},"PasswordMustMeetComplexityRequirements":{"type":"string"}},"resources":[{"con
dition":"[equals(toLower(parameters(''type'')),
toLower(''microsoft.hybridcompute/machines''))]","apiVersion":"2018-1120","type":"Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments","name":"[concat(para
meters(''vmName''),
''/Microsoft.GuestConfiguration/'',
parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
me":"[parameters(''configurationName'')]","version":"1.*","configurationParameter":[{"name":"Enforce
password history;ExpectedValue","value":"[parameters(''EnforcePasswordHistory'')]"},{"name":"Maximum
password age;ExpectedValue","value":"[parameters(''MaximumPasswordAge'')]"},{"name":"Minimum
password age;ExpectedValue","value":"[parameters(''MinimumPasswordAge'')]"},{"name":"Minimum
password length;ExpectedValue","value":"[parameters(''MinimumPasswordLength'')]"},{"name":"Password
must meet complexity
requirements;ExpectedValue","value":"[parameters(''PasswordMustMeetComplexityRequirements'')]"}]}}},{"condi
tion":"[equals(toLower(parameters(''type'')),
toLower(''Microsoft.Compute/virtualMachines''))]","apiVersion":"2018-1120","type":"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments","name":"[concat(para
meters(''vmName''),
''/Microsoft.GuestConfiguration/'',
parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
me":"[parameters(''configurationName'')]","version":"1.*","configurationParameter":[{"name":"Enforce

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password history;ExpectedValue","value":"[parameters("EnforcePasswordHistory" )]" }], {"name": "Maximum password age;ExpectedValue","value":"[parameters("MaximumPasswordAge") ]" }, {"name": "Minimum password age;ExpectedValue","value":"[parameters("MinimumPasswordAge") ]" }, {"name": "Minimum password length;ExpectedValue","value":"[parameters("MinimumPasswordLength") ]" }, {"name": "Password must meet complexity requirements;ExpectedValue","value":"[parameters("PasswordMustMeetComplexityRequirements") ]" } ]} ], {"condition": ["equals(toLower(parameters("type")),
toLower("Microsoft.Compute/virtualMachines"))" ], "apiVersion": "2019-07-01", "type": "Microsoft.Compute/virtualMachines", "identity":{"type":"SystemAssigned" }, "name": "[parameters("vmName") ]", "location": "[parameters("location") ]" }, {"condition": ["equals(toLower(parameters("type")),
toLower("Microsoft.Compute/virtualMachines"))" ], "apiVersion": "2015-05-01preview", "name": "[concat(parameters("vmName"),"/AzurePolicyforWindows") ]", "type": "Microsoft.Compute/virtualMachines/extensions", "location": "[parameters("location") ]" }, {"properties": {"publisher": "Microsoft.GuestConfiguration" , "type": "ConfigurationforWindows" , "typeHandlerVersion": "1.1" , "autoUpgradeMinorVersion": true , "settings": {} , "protectedSettings": {} }, "dependsOn": ["[concat("Microsoft.Compute/virtualMachines",parameters("vmName"),"/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments",parameters("configurationName") )]" ] } ] } ] }, {"id": "/providers/Microsoft.Authorization/policyDefinitions/e3d95ab7-f47a-49d8-a347-784177b6c94c" }, {"type": "Microsoft.Authorization/policyDefinitions", "name": "e3d95ab7-f47a-49d8-a347-784177b6c94c" }, {"properties": {"displayName": "Microsoft Managed Control 1451 - Physical Access Control","policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control","metadata": {"version": "1.0.0" , "category": "Regulatory Compliance" , "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1451" } }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups" ] }, {"value": false,"equals":true } ] } , "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/e3f1e5a3-25c1-4476-8cb6-3955031f8e65" }, {"type": "Microsoft.Authorization/policyDefinitions", "name": "e3f1e5a3-25c1-4476-8cb6-3955031f8e65" }, {"properties": {"displayName": "Microsoft Managed Control 1357 - Incident Response Training | Automated Training Environments","policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control","metadata": {"version": "1.0.0" , "category": "Regulatory Compliance" , "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1357" } }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups" ] }, {"value": false,"equals":true } ] } , "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/e4213689-05e8-4241-9d4e-8dd1cdafd105" }, {"type": "Microsoft.Authorization/policyDefinitions", "name": "e4213689-05e8-4241-9d4e-8dd1cdafd105" }, {"properties": {"displayName": "[Preview]: Deploy prerequisites to audit Windows VMs configurations in "Security Options - User Account Control"","policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - User Account Control". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": {"version": "1.1.0-preview" } }, "category": "Guest"}
Open Source Used In SDWan 20.7.1

**UAC: Admin Approval Mode for the Built-in Administrator account**, **description**: "Specifies the behavior of Admin Approval Mode for the built-in Administrator account."

"defaultValue": "1",

**UACBehaviorOfTheElevationPromptForAdministratorsInAdminApprovalMode**, **type**: "String",

**UACDetectApplicationInstallationsAndPromptForElevation**, **type**: "String"
null
Account Control: Behavior of the elevation prompt for administrators in Admin Approval Mode; Expected Value

Account Control: Detect application installations and prompt for elevation; Expected Value

Account Control: Run all administrators in Admin Approval Mode; Expected Value

Account Control: Managed Control 1340 - Authenticator Management | No Embedded Unencrypted Static Authenticators

Managed Control 1381 - Incident Response Plan

Managed Control 1421 - Maintenance Personnel

Open Source Used In SDWan 20.7.1  8819
Managed Control 1716 - Software, Firmware, And Information Integrity | Integration Of Detection And Response,

**Policy Type**: Static, **Mode**: Indexed, **Description**: Microsoft implements this System and Information Integrity control.

**Metadata**:
- **Version**: 1.0.0
- **Category**: Regulatory Compliance

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**Policy Definition**:
- **Display Name**: Microsoft Managed Control 1716 - Software, Firmware, And Information Integrity | Integration Of Detection And Response
- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this System and Information Integrity control.

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**Policy Rule**:
- **If**: 
  - **All Of**:
    - **Field**: Type
    - **In**: 
      - Microsoft.Resources/subscriptions
      - Microsoft.Resources/subscriptions/resourceGroups
  - **Value**: False
  - **Equals**: True
- **Then**:
  - **Effect**: Audit

---

**Policy Definition**:
- **Display Name**: Microsoft Managed Control 1023 - Account Management | Usage Conditions
- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Access Control control.

---

**Policy Rule**:
- **If**:
  - **All Of**:
    - **Field**: Type
    - **In**:
      - Microsoft.Resources/subscriptions
      - Microsoft.Resources/subscriptions/resourceGroups
  - **Value**: False
  - **Equals**: True
- **Then**:
  - **Effect**: Audit

---

**Policy Definition**:
- **Display Name**: Allowed locations
- **Policy Type**: BuiltIn
- **Mode**: Indexed
- **Description**: This policy enables you to restrict the locations your organization can specify when deploying resources. Use to enforce your geo-compliance requirements. Excludes resource groups, Microsoft.AzureActiveDirectory/b2cDirectories, and resources that use the "global" region.

---

**Policy Rule**:
- **If**:
  - **All Of**:
    - **Field**: Location
    - **Not In**:
      - parameters(listOfAllowedLocations)
  - **Field**: Type
    - **Not Equals**: Microsoft.AzureActiveDirectory/b2cDirectories
- **Then**:
  - **Effect**: Deny

---

**Policy Definition**:
- **Display Name**: Microsoft Managed Control 1296 - Information System Recovery And Reconstitution | Transaction Recovery
- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Contingency Planning control.

---

**Policy Rule**:
- **If**:
  - **All Of**:
    - **Field**: Type
    - **In**:
      - Microsoft.Resources/subscriptions
      - Microsoft.Resources/subscriptions/resourceGroups
  - **Value**: False
  - **Equals**: True
- **Then**:
  - **Effect**: Audit
Deploy prerequisites to audit Windows VMs configurations in "Security Options - Accounts". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Accounts". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
"configurationName":{"value":"AzureBaseline_SecurityOptionsAccounts"},"AccountsGuestAccountStatus":{"value":"[parameters(\"AccountsGuestAccountStatus\")]"},"template":{"$schema":"https://schema.management.azure.com/schemas/2015-01-deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"vmName":{"type":"string"},"location":{},"type":{},"configurationName":{},"AccountsGuestAccountStatus":{},"resources":[]},"templateVariables":[]},"id":"/providers/Microsoft.Authorization/policyDefinitions/e5b81f87-9185-4224-bf00-9f505e9f89f3","type":"Microsoft.Authorization/policyDefinitions","name":"e5b81f87-9185-4224-bf00-9f505e9f89f3","properties":{"displayName":"[Deprecated]: Audit Web Applications that are not using latest supported Node.js Framework","policyType":"BuiltIn","mode":"All","description":"Use the latest supported Node.js version for the latest security classes. Using older classes and types can make your application vulnerable.","metadata":{"version":"1.0.0-deprecated","category":"Security Center","deprecated":true},"parameters":{"effect":{"type":"String"},"allowedValues":[]},"policyRule":{"if":[]},"policyDefinitionId":"/providers/Microsoft.Authorization/policyDefinitions/e5b81f87-9185-4224-bf00-9f505e9f89f3","displayName":"Audit Web Applications that are not using latest supported Node.js Framework","mode":"All","description":"Use the latest supported Node.js version for the latest security classes. Using older classes and types can make your application vulnerable.","metadata":{"version":"1.0.0-deprecated","category":"Security Center","deprecated":true},"parameters":{"effect":{"type":"String"},"allowedValues":[]},"policyRule":{"if":[]},"policyDefinitionId":"/providers/Microsoft.Authorization/policyDefinitions/e5b81f87-9185-4224-bf00-9f505e9f89f3"}
Managed Control 1465 - Monitoring Physical Access | Monitoring Physical Access

To Information Systems, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1465"}, }]
"policyRule": {
"if": {
"allOf": [{
"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]},
"value": false,
"equals": true
}],
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/e71308d3-144b-4262-b144-efdc3ce90517",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "e71308d3-144b-4262-b144-efdc3ce90517",
"properties": {
"displayName": "Microsoft

Managed Control 1567 - System Development Life Cycle", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1567"}, }]
"policyRule": {
"if": {
"allOf": [{
"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]},
"value": false,
"equals": true
}],
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/e7568697-0c9e-4ea3-9cec-9e567d14f3c6",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "e7568697-0c9e-4ea3-9cec-9e567d14f3c6",
"properties": {
"displayName": "Advanced
Threat Protection types should be set to "All" in SQL server Advanced Data Security settings. It is recommended to enable all Threat Protection types on your SQL servers. Enabling all types protects against SQL injection, database vulnerabilities, and any other anomalous activities.

In SQL server Advanced Data Security settings, Threat Protection types should be set to "All". It is recommended to enable all Advanced Threat Protection types on your SQL servers. Enabling all types protects against SQL injection, database vulnerabilities, and any other anomalous activities.

Managed Control 1154 - System Interconnections | Unclassified Non-National Security System Connections should be set to "All". Microsoft implements this Security Assessment and Authorization control.

Allowed locations for resource groups should be set to "All". This policy enables you to restrict the locations your organization can create resource groups in. Use to enforce your geo-compliance requirements.

Managed Control 1273 - Alternate Processing Site should be set to "All". Microsoft implements this Contingency Planning control.
Managed Control 1169 - Continuous Monitoring | Trend Analyses, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Security Assessment and Authorization control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1169"
}, "policyRule": {
"if": {
"allOf": [{
"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
},
{ "value": false, "equals": true }
],
"then": {
"effect": "Audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/e7ba2cb3-5675-4468-8b50-8486bdd998a5",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "e7ba2cb3-5675-4468-8b50-8486bdd998a5",
"properties": {
"displayName": "Microsoft Managed Control 1169 - Continuous Monitoring | Trend Analyses",
"policyType": "Static",
"mode": "Indexed",
"description": "This policy audits any MySQL server that is not enforcing SSL connection. Azure Database for MySQL supports connecting your Azure Database for MySQL server to client applications using Secure Sockets Layer (SSL). Enforcing SSL connections between your database server and your client applications helps protect against \"man in the middle\" attacks by encrypting the data stream between the server and your application."

SSL connection should be enabled for MySQL database servers, "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any MySQL server that is not enforcing SSL connection. Azure Database for MySQL supports connecting your Azure Database for MySQL server to client applications using Secure Sockets Layer (SSL). Enforcing SSL connections between your database server and your client applications helps protect against \"man in the middle\" attacks by encrypting the data stream between the server and your application.", "metadata": {
"version": "1.0.0", "category": "SQL",
"parameters": {
"effect": {
"type": "String",
"metadata": {
"displayName": "Effect",
"description": "Enable or disable the execution of the policy"},
"allowedValues": ["Audit", "Disabled"],
"defaultValue": "Audit"
}
},
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"equals": "Microsoft.DBforMySQL/servers",
"field": "Microsoft.DBforMySQL/servers/sslEnforcement",
"exists": true,
"notEquals": "Enabled"
}],
"then": {
"effect": "Audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/e802a67a-daf5-4436-9ea6-f6d821dd0c5d",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "e802a67a-daf5-4436-9ea6-f6d821dd0c5d",
"properties": {
"displayName": "Microsoft Managed Control 1237 - Software Usage Restrictions | Open Source Software",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft implements this Configuration Management control",
"metadata": {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1237"
},
"policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
},
{ "value": false, "equals": true }
],
"then": {
"effect": "Audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/e80b6812-0bfa-4383-8223-cdd86a46a890",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "e80b6812-0bfa-4383-8223-cdd86a46a890",
"properties": {
"displayName": "Vulnerabilities in container security configurations should be remediated",
"policyType": "BuiltIn",
"mode": "All",
"description": "Audit"}
vulnerabilities in security configuration on machines with Docker installed and display as recommendations in Azure Security Center. 

Enable or disable the execution of the policy:

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Managed Control 1723 - Information Input
Validations, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1723"
}, "policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
}, {
"value": false,
"equals": true
}]
}, "then": {
"effect": "audit"
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e91927a0-ac1d-44a0-95f8-5185fdce9f"
}, "properties": {
"displayName": "Microsoft"
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e91927a0-ac1d-44a0-95f8-5185fdce9f"
}

Managed Control 1200 - Security Impact
Analysis, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1200"
}, "policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
}, {
"value": false,
"equals": true
}]
}, "then": {
"effect": "audit"
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e98fe9d7-2ed3-44f8-93b7-24dca69783f1"
}, "properties": {
"displayName": "Microsoft"
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e98fe9d7-2ed3-44f8-93b7-24dca69783f1"
}

Managed Control 1487 - Alternate Work Sites, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1487"
}, "policyRule": {
"if": {
"allOf": [{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
}, {
"value": false,
"equals": true
}]
}, "then": {
"effect": "audit"
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e9c3371d-c30c-4f58-abd9-30b8a199571"
}, "properties": {
"displayName": "Remote debugging should be turned off for API Apps", "policyType": "BuiltIn", "mode": "Indexed", "description": "Remote debugging requires inbound ports to be opened on API apps. Remote debugging should be turned off.", "metadata": {
"version": "1.0.0", "category": "App Service"
}, "parameters": {
"effect": {
"type": "String",
"metadata": {
"displayName": "Effect",
"description": "Enable or disable the execution of the policy"
}, "allowedValues": [{
"AuditIfNotExists", "Disabled"
}], "defaultValue": "AuditIfNotExists"
}, "policyRule": {
"if": {
"allOf": [{
"field": "type",
"equals": "Microsoft.Web/sites"
}, {
"field": "kind",
"like": "*api"
}]
}, "then": {
"effect": {"parameters":"(effect)"},
"details": {
"type": "Microsoft.Web/sites/config",
"name": "web",
"existenceCondition": {
"field": "Microsoft.Web/sites/config/remoteDebuggingEnabled",
"equals": false
}
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e9c8d085-d9cc-4b17-9cdc-059f1f01f9e"
}, "properties": {
"displayName": "Microsoft"
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e9c8d085-d9cc-4b17-9cdc-059f1f01f9e"
}

Managed Control 1363 - Incident Handling | Automated Incident Handling Processes, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1363"
}, "policyRule":
Inherit a tag from the resource group if missing, "policyType": "BuiltIn", "mode": "Indexed", "description": "Adds the specified tag with its value from the parent resource group when any resource missing this tag is created or updated. Existing resources can be remediated by triggering a remediation task. If the tag exists with a different value it will not be changed.", "metadata": {"version": "1.0.0", "category": "Tags"}, "parameters": {"tagName": {"type": "String", "metadata": {"display Name": "Tag Name", "description": "Name of the tag, such as "environment"."}}}, "policyRule": {"if": {"allOf": [{"field": "[concat('tags["', parameters("tagName")", "]"]", "notEquals": ""}], "then": {"effect": "modify", "details": {"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd2c4"], "operations": [{"operation": "add", "field": [concat('tags["', parameters("tagName")", "]"], "value": [resourceGroup().tags[parameters("tagName")]]"]}, "notEquals": ""]}], "then": {"effect": "modify", "details": {"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd2c4"], "operations": [{"operation": "add", "field": [concat('tags["', parameters("tagName")", "]"], "value": [resourceGroup().tags[parameters("tagName")]]"]}, "notEquals": ""]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/ea3f2387-9b95-492a-a190-fcde547f070","type": "Microsoft.Authorization/policyDefinitions", "name": "ea3f2387-9b95-492a-a190-fcde547f070"}, {"properties": {"displayName": "Key Vault should use a virtual network service endpoint", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any Key Vault not configured to use a virtual network service endpoint.", "metadata": {"version": "1.0.0", "category": "Network"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.KeyVault/vaults"}, {"anyOf": [{"field": "Microsoft.KeyVault/vaults/networkAcls.defaultAction", "notEquals": "Deny"}, {"field": "Microsoft.KeyVault/vaults/networkAcls.virtualNetworkRules[*].id", "exists": false}]}, "then": {"effect": [parameters("effect")]}], "id": "/providers/Microsoft.Authorization/policyDefinitions/ea4d6841-2173-4317-9747-ff522a45120f","type": "Microsoft.Authorization/policyDefinitions", "name": "ea4d6841-2173-4317-9747-ff522a45120f"}, {"properties": {"displayName": "Microsoft Managed Control 1422 - Maintenance Personnel", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1422"}}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/ea556850-838d-4a37-8ce5-9d7642f95e11","type": "Microsoft.Authorization/policyDefinitions", "name": "ea556850-838d-4a37-8ce5-9d7642f95e11"}, {"properties": {"displayName": "Microsoft Managed Control 1542 - Risk Assessment", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Risk Assessment control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1542"}}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/ea9e8156-89a1-45b1-8bd6-938abc79fdff","type": "Microsoft.Authorization/policyDefinitions", "name": "ea9e8156-89a1-45b1-8bd6-938abc79fdff"}}
Function app has "Client Certificates (Incoming client certificates)" set to "On". "Policy Type": "BuiltIn", "mode": "Indexed", "description": "Client certificates allow for the app to request a certificate for incoming requests. Only clients that have a valid certificate will be able to reach the app.", "metadata":{"version": "1.0.0", "category": "App Service"}, "parameters":{"effect":{"type": "String", "metadata":{"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}}, "policyRule":{"if":{"allOf": ["field": "type", "equals": "Microsoft.Web/sites"], "field": "kind", "like": "functionapp*"}, "then":{"effect":{"parameters("effect")"}}}, "id":/providers/Microsoft.Authorization/policyDefinitions/eab340d0-3d55-4826-a0e5-fee6be0131d"},{"properties":{"displayName": "Ensure Function app has "Client Certificates (Incoming client certificates)" set to "On"."}, "policyType": "BuiltIn", "mode": "Indexed", "description": "Client certificates allow for the app to request a certificate for incoming requests. Only clients that have a valid certificate will be able to reach the app.", "metadata":{"version": "1.0.0", "category": "App Service"}, "parameters":{"effect":{"type": "String", "metadata":{"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}}, "policyRule":{"if":{"allOf": ["field": "type", "equals": "Microsoft.Web/sites"], "field": "kind", "like": "functionapp*"}, "then":{"effect":{"parameters("effect")"}}}, "id":/providers/Microsoft.Authorization/policyDefinitions/eab340d0-3d55-4826-a0e5-fee6be0131d"}},
Log connections should be enabled for PostgreSQL database servers.

This policy helps audit any PostgreSQL databases in your environment without log_connections setting enabled.

Disconnections should be logged for PostgreSQL database servers.

This policy helps audit any PostgreSQL databases in your environment without log_disconnections setting enabled.

Log duration should be enabled for PostgreSQL database servers.

This policy helps audit any PostgreSQL databases in your environment without log_duration setting enabled.

Deprecated accounts with owner permissions should be removed from your subscription.

accounts with owner permissions should be removed from your subscription. Deprecated accounts are accounts that have been blocked from signing in.

accounts are accounts that have been blocked from signing in.

Open Source Used In SDWan 20.7.1 8831
Deploy prerequisites to audit Linux VMs that allow remote connections from accounts without passwords, "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Linux virtual machines that allow remote connections from accounts without passwords. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": {"version": "1.2.0-preview", "category": "Guest Configuration", "requiredProviders": ["Microsoft.GuestConfiguration"], "preview": true}, "policyRule": {"if": {"anyOf": [{"allOf": ["Microsoft.Compute/virtualMachines", "Microsoft.GuestConfiguration/guestConfigurationAssignments", "SecurityCenter/auditPolicies"]}, {"allOf": ["Microsoft.Compute/imagePublisher", "Microsoft.GuestConfiguration/guestConfigurationAssignments", "SecurityCenter/auditPolicies"]}, {"allOf": ["Microsoft.Compute/imagePublisher", "Microsoft.GuestConfiguration/guestConfigurationAssignments", "SecurityCenter/auditPolicies"]}, {"allOf": ["Microsoft.Compute/imagePublisher", "Microsoft.GuestConfiguration/guestConfigurationAssignments", "SecurityCenter/auditPolicies"]}, {"allOf": ["Microsoft.Compute/imagePublisher", "Microsoft.GuestConfiguration/guestConfigurationAssignments", "SecurityCenter/auditPolicies"]}, {"allOf": ["Microsoft.Compute/imagePublisher", "Microsoft.GuestConfiguration/guestConfigurationAssignments", "SecurityCenter/auditPolicies"]}, {"allOf": ["Microsoft.Compute/imagePublisher", "Microsoft.GuestConfiguration/guestConfigurationAssignments", "SecurityCenter/auditPolicies"]}, {"allOf": ["Microsoft.Compute/imagePublisher", "Microsoft.GuestConfiguration/guestConfigurationAssignments", "SecurityCenter/auditPolicies"]}, {"allOf": ["Microsoft.Compute/imagePublisher", "Microsoft.GuestConfiguration/guestConfigurationAssignments", "SecurityCenter/auditPolicies"]}]}}, "then": {"effect": "deployIfNotExists", "details": {"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"], "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "PasswordPolicy_msid110", "deployment": {"properties": {"mode": "incremental", "parameters": {"vmName": "[value]:[field(name)]", "location": "[value]:[field(location)]", "type": "[value]:[field(type)]", "configurationName": "[value]:PasswordPolicy_msid110"}, "template": "{schema": https://schema.management.azure.com/schemas/2015-01-
Deploy prerequisites to audit Windows VMs configurations in "Administrative Templates - Control Panel". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Administrative Templates - Control Panel". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Open Source Used In SDWan
implements this Configuration Management control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1241"},"policyRule ":{"if":{"allOf":[]},"then":null}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/eca4d7b2-65e2-4e04-95d4-c68606b063c3","type":"Microsoft.Authorization/policyDefinitions","name":"eca4d7b2-65e2-4e04-95d4-c68606b063c3"},{"properties":null}

Managed Control 1622 - Boundary Protection","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1622"},"policyRule":null}

Deploy Diagnostic Settings for Key Vault to Event Hub","policyType":"BuiltIn","mode":"Indexed","description":"Deploys the diagnostic settings for Key Vault to stream to a regional Event Hub when any Key Vault which is missing this diagnostic settings is created or updated.","metadata":{"version":"2.0.0","category":"Key Vault"},"parameters":{"profileName":{"type":"String","metadata":{"displayName":"Profile name","description":"The diagnostic settings profile name"},"defaultValue":"setbypolicy"},"eventHubRuleId":{"type":"String","metadata":{"displayName":"Event Hub Authorization Rule Id","description":"The Event Hub authorization rule Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. e.g. /subscriptions/{subscription Id}/resourceGroups/{resource group}/providers/Microsoft.EventHub/namespaces/{Event Hub namespace}/authorizationrules/{authorization rule}"},"eventHubLocation":{"type":"String","metadata":{"displayName":"Event Hub Location","description":"The location the Event Hub resides in. Only Key Vaults in this location will be linked to this Event Hub"},"defaultValue":null},"metricsEnabled":{"type":"String","metadata":{"displayName":"Enable metrics","description":"Whether to enable metrics stream to the Event Hub - True or False"},"allowedValues":null,"defaultValue":null},"logsEnabled":{"type":"String","metadata":{"displayName":"Enable logs","description":"Whether to enable logs stream to the Event Hub - True or False"},"allowedValues":null,"defaultValue":null}},
Managed Control 1217 - Least Functionality | Periodic Review

**Policy Type**: Static, **mode**: Indexed, **description**: Microsoft implements this Configuration Management control, **metadata**: 

- **version**: 1.0.0
- **category**: Regulatory Compliance
- **additionalMetadataId**: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1217
- **policyRule**: 
  - **if**: 
    - allOf: 
      - field: type
      - in: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
      - value: false
      - equals: true
  - then: 
    - effect: audit

**Properties**: 

- **displayName**: Deploy Diagnostic Settings for Stream Analytics to Event Hub
- **policyType**: BuiltIn
- **mode**: Indexed
- **description**: Deploys the diagnostic settings for Stream Analytics to stream to a regional Event Hub when any Stream Analytics which is missing this diagnostic settings is created or updated.
- **metadata**: 
  - **version**: 2.0.0
  - **category**: Monitoring
  - **parameters**: 
    - **effect**: String
    - **metadata**: 
      - **displayName**: Effect
      - **description**: Enable or disable the execution of the policy
      - **allowedValues**: [DeployIfNotExists, Disabled]
      - **defaultValue**: DeployIfNotExists
      - **profileName**: Profile name
      - **description**: The diagnostic settings profile name
      - **defaultValue**: sethypolicy_eventHub
      - **eventHubRuleId**: String
      - **metadata**: 
        - **displayName**: Event Hub Authorization Rule Id
        - **description**: The Event Hub authorization rule
        - **Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level, e.g. /subscriptions/{subscription Id}/resourceGroups/{resource group}/providers/Microsoft.EventHub/namespaces/{Event Hub namespace}/authorizationrules/{authorization rule}
        - **strongType**: Microsoft.EventHubNamespaces/AuthorizationRules
        - **assignPermissions**: true
        - **eventHub Location**: 
          - **type**: String
          - **metadata**: 
            - **displayName**: Event Hub Location
            - **description**: The location the Event Hub resides in. Only Stream Analytics in this location will be linked to this Event
Managed Control 1314 - Identifier

Microsoft Managed Control 1314 - Identifier

Managed Control 1128 - Time Stamps

Vulnerability assessment should be enabled on your SQL servers

API Management services should use a virtual network

Management services should use a virtual network on API Management services of the specified SKU should be enabled.
Deploy Diagnostic Settings for Event Hub to Event Hub

The policy types, mode, description, and deployed settings for Event Hub to stream to a regional Event Hub when any Event Hub which is missing this diagnostic settings is created or updated are:

- **Policy Type**: BuiltIn
- **Mode**: Indexed
- **Description**: Deploys the diagnostic settings for Event Hub to stream to a regional Event Hub when any Event Hub which is missing this diagnostic settings is created or updated.

- **Metadata**:
  - **Version**: 2.0.0
  - **Category**: Monitoring
  - **Effect**: DeployIfNotExists
  - **Profile Name**: setbypolicy_eventHub
  - **Event Hub Location**: The location the Event Hub that will get diagnostic data resides in. Only source Event Hubs in this location will be linked to this destination Event Hub.
  - **Metrics Enabled**: True or False
  - **Logs Enabled**: True or False
  - **Profile Name**: The diagnostic settings profile name

For Azure Diagnostics, the policy rule checks the Event Hub namespace level. If the Event Hub namespace is missing the Event Hub Authorization Rule Id for Azure Diagnostics, the policy will be applied.

Deployment Template JSON:

```json
"openSourceUsedInSDWan": "Microsoft.ApiManagement/service/sku.name","in":[parameters("evaluatedSkuNames")],
"anyOf":[]
"field":"Microsoft.ApiManagement/service/virtualNetworkType","exists":"false"
"["field":"Microsoft.ApiManagement/service/virtualNetworkType","equals":"None"]"
"then":[]
"effect":
"parameters"("effect")"
"id":/providers/Microsoft.Authorization/policyDefinitions/ef619a2c-cc4d-4d03-b2ba-8c94a834d85b,"type":"Microsoft.Authorization/policyDefinitions","name":/subscriptions/2e7d31a3-0cb3-4186-b72b-0a5880e32952/resourcegroups/test cluster/providers/Microsoft.Authorization/policyDefinitions/ef619a2c-cc4d-4d03-b2ba-8c94a834d85b,"parameters":
"displayName":"Deploy Diagnostic Settings for Event Hub to Event Hub""mode":"Indexed","description":"Deploys the diagnostic settings for Event Hub to stream to a regional Event Hub when any Event Hub which is missing this diagnostic settings is created or updated.
"metadata":

```
Managed Control 1358 - Incident Response Testing

Microsoft implements this Incident Response control, metadata:

Version: 1.0.0
Category: Regulatory Compliance
AdditionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1358

Policy Rule:

```
if:
  allOf:
    - field: type
      in: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
    - value: true
then:
  effect: audit
```

Ensure that Register with Azure Active Directory is enabled on Function App. This managed service identity in App Service makes the app more secure by eliminating secrets from the app, such as credentials in the connection strings. When registering with Azure Active Directory in the app service, the app will connect to other Azure services securely without the need of username and passwords. metadata:

Version: 1.0.0
Category: App Service

Parameters:

- effect:
  type: String
  metadata:
  displayName: Effect
description: Enable or disable the execution of the policy

Deployment prerequisites to audit Windows VMs that have the specified applications installed. metadata:

Version: 1.1.0
Category: Guest Configuration

Required Providers:

- Microsoft.GuestConfiguration

Parameters:

- ApplicationName:
  type: String
  metadata:
  displayName: Application names (supports wildcards)
description: A semicolon-separated list of the names of the applications that should not be installed.

Server 2014 (64-bit); Microsoft Visual Studio Code or Microsoft SQL Server 2014 (64-bit)
Open Source Used In SDWan

Managed Control 1531 - Third-Party Personnel Security

Microsoft Managed Control 1531 - Third-Party Personnel Security

- Microsoft implements this Personnel Security control,
- metadata: {"version":1.0.0,"category":"Regulatory Compliance"},
- "additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1531",
- "policyRule": {"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":false,"equals":true}]}, "then": {"effect":"audit"}}

TLS version should be used in your Web App
- metadata: {"version":1.0.0,"category":"App Service"},
- "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}},
- "policyRule": {"if": {"allOf": [{"field":"type","equals": "Microsoft.Web/sites"}, {"field":"kind","like": "app*"}]}, "then": {"effect": ["parameters["effect"]"],
- "details": {"type": "Microsoft.Web/sites/config","name": "web","existenceCondition": {"field": "Microsoft.Web/sites/config/minTlsVersion","equals": "1.2"}}}

Deploy Workflow Automation for Azure Security Center alerts
- "parameters": {"automationName": {"type": "String", "metadata": {"displayName": "Automation name", "description": "This is the automation name."}},
- "resourceGroupName": {"type": "String", "metadata": {"displayName": "Resource group name", "description": "The resource group name where the workflow automation is created. If you enter a name for a resource group that doesn’t exist, it’ll be created in the subscription."}},
- "resourceGroupLocation": {"type": "String", "metadata": {"displayName": "Resource group location", "description": "The location where the resource group and the workflow automation are created."}, "strongType": "location"},
- "alertName": {"type": "String", "metadata": {"displayName": "Alert name contains", "description": "String included in the required alert name."}}

For a full reference list of Security Center’s alerts, see https://docs.microsoft.com/azure/security-center/alerts-
Open Source Used In SDWan 20.7.1 8844
do not have the passwd file permissions set to 0644. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

```
"policyRule":{
  "if":{
    "anyOf":
    [{"allOf":
      [{"field":"type","equals":"Microsoft.Compute/virtualMachines"},
       {"anyOf":
        [{"field":"Microsoft.Compute/imagePublisher","in":
          ["microsoft-aks","AzureDatabricks","qubole-
           inc","dastax","couchbase","scalegrid","checkpoint","paloaltonetworks"]},
         {"allOf":
          [{"field":"Microsoft.Compute/imagePublisher","equals":"OpenLogic"},
           {"field":"Microsoft.Compute/imageOffer","like":"CentOS*"},
           {"field":"Microsoft.Compute/imageSKU","notLike":"6*"}]
        },
        {"allOf":
          [{"field":"Microsoft.Compute/imagePublisher","equals":"RedHat"},
           {"field":"Microsoft.Compute/imageOffer","equals":"RHEL"},
           {"field":"Microsoft.Compute/imageSKU","notLike":"6*"}]
        },
        {"allOf":
          [{"field":"Microsoft.Compute/imagePublisher","equals":"RedHat"},
           {"field":"Microsoft.Compute/imageOffer","equals":"osa"}]
        },
        {"allOf":
          [{"field":"Microsoft.Compute/imagePublisher","equals":"credativ"},
           {"field":"Microsoft.Compute/imageOffer","equals":"Debian"},
           {"field":"Microsoft.Compute/imageSKU","notLike":"7*"}]
        },
        {"allOf":
          [{"field":"Microsoft.Compute/imagePublisher","equals":"Canonical"},
           {"field":"Microsoft.Compute/imageOffer","equals":"UbuntuServer"},
           {"field":"Microsoft.Compute/imageSKU","notLike":"12*"}]
        },
        {"allOf":
          [{"field":"Microsoft.Compute/imagePublisher","equals":"microsoft-dsvm"},
           {"field":
            "Microsoft.Compute/imageOffer","like":"linux-data-science-vm-
            ubuntu","azureml"]}
        },
        {"allOf":
          [{"field":"Microsoft.Compute/imagePublisher","equals":
            "cloudera"},
           {"field":
            "Microsoft.Compute/imageOffer","equals":
            "cloudera-altus-centos-
            os"}]
        },
        {"allOf":
          [{"field":
            "Microsoft.Compute/imagePublisher","equals":
            "microsofteads"},
           {"field":
            "Microsoft.Compute/imageOffer","like":"linux*"}]
        },
        {"anyOf":
          [{"field":
            "Microsoft.Compute/osProfile.linuxConfiguration","exists":true}],
          {"field":
            "Microsoft.Compute/virtualMachines/osProfile.osDisk.osType","like":"Linux*"]
        },
        {"anyOf":
          [{"field":
            "Microsoft.Compute/imagePublisher","exists":false},
           {"field":
            "Microsoft.Compute/imageOffer","notIn":
            ["OpenLogic","RedHat","credativ","Suse","Canonical","microsofteads","cloudera","microsof
teads"]}]
        }
    ]
  }
},
  {"allOf":
    [{"field":"type","equals":"Microsoft.HybridCompute/machines"},
     {"field":
      "Microsoft.HybridCompute/imageOffer","like":"linux*"}]
  }
},
  {"then":{
    "effect":"deployIfNotExists","details":
    {"roleDefinitionIds":
      ["pro
viders/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-
20782ad2d4c"]
    }
  }
}
```

Open Source Used In SDWan 20.7.1 8846
Deploys prerequisites to audit Windows VMs configurations in "Administrative Templates - MSS (Legacy)". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Administrative Templates - MSS (Legacy)". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Managed Control 1309 - Identification And Authentication (Org. Users) | Acceptance Of Piv Credentials, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control."

Managed Control 1615 - System And Communications Protection Policy And Procedures, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control."

Managed Control 1255 - Contingency Plan | Continue Essential Missions / Business Functions, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control."

policy results from Windows VMs in which the Administrators group does not contain all of the specified members, "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines in which the Administrators group does not contain all of the specified members. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol."

Show audit results from Windows VMs in which the Administrators group does not contain all of the specified members, "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines in which the Administrators group does not contain all of the specified members. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol."

**Guest Configuration**

Show audit results from Windows VMs that do not contain the specified certificates in Trusted Root, "policyType" : "BuiltIn", "mode" : "All", "description" : This policy should only be used along with its corresponding deploy policy in an initiative.

Microsoft Managed Control 1706 - Security Alerts, Advisories, And Directives

- "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control".

- "metadata": {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1706"
}

- "policyRule": {
  "if": {
    "allOf": [{
      "field": "Microsoft.Resources/subscriptions/subresourceGroups", "exists": "true",
      "field": ".storageProfile.osDisk.osType", "like": "Windows*"
    }],
    "anyOf": [{
      "field": ".storageProfile.osDisk.osType", "like": "Linux*"
    }]
  },
  "then": {
    "effect": "auditIfNotExists",
    "details": {
      "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments",
      "name": ".WindowsCertificateInTrustedRoot",
      "existenceCondition": {
        "field": ".Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus", "equals": "Compliant"
      }
    },
    "id": "/providers/Microsoft.Authorization/policyDefinitions/f3b9ad83-000d-4dc1-bff0-6d54533dd03f",
    "name": "f3b9ad83-000d-4dc1-bff0-6d54533dd03f"
  }
}

- "metadata": {
  "version": "1.0.1", "category": "Monitoring"
}

- "parameters": {
  "logAnalyticsWorkspaceId": {
    "type": "String",
    "metadata": {
      "displayName": "Log Analytics Workspace Id that VMs should be configured for",
      "description": "This is the Id (GUID) of the Log Analytics Workspace that the VMs should be configured for.",
      "allowedValues": ["AuditLog workspace for VM - Report Mismatch"]
    }
  }
}

- "policyRule": {
  "if": {
    "field": ".Microsoft.Resources/subscriptions/subresourceGroups", "exists": "true",
    "field": ".Microsoft.Resources/subscriptions/subresourceGroups", "in": [{
      "field": "Microsoft.EventHub/namespaces/eventhubs", "exists": "true",
      "field": "Microsoft.EventHub/namespaces/eventhubs", "in": [{
        "field": ".Microsoft.EventHub/namespaces/eventhubs/authorizationRules", "exists": "true"
      }]
    }]
  },
  "then": {
    "effect": "audit",
    "details": {
      "type": ".Microsoft.EventHub/namespaces/eventhubs/authorizationRules",
      "name": "f47b5582-33ec-4c5c-87c0-b010a6b2e917"
    }
  }
}

- "metadata": {
  "version": "1.0.0", "category": "Event Hub"
}

- "parameters": {
  "effect": {
    "type": "String",
    "metadata": {
      "displayName": "Effect",
      "description": "Enable or disable the execution of the policy",
      "allowedValues": ["AuditIfNotExists", "Disabled"
    ]
  }
}

- "policyRule": {
  "if": {
    "field": ".Microsoft.EventHub/namespaces/eventhubs/authorizationRules", "exists": "true",
    "field": ".Microsoft.EventHub/namespaces/eventhubs/authorizationRules", "in": [{
      "field": "Microsoft.EventHub/namespaces/eventhubs/authorizationRules", "exists": "true"
    }]
  },
  "then": {
    "effect": "audit",
    "details": {
      "type": "Microsoft.EventHub/namespaces/eventhubs/authorizationRules",
      "name": "f47b5582-33ec-4c5c-87c0-b010a6b2e917"
    }
  }
}

Show audit results from Windows VMs that do not have the password complexity setting enabled.

- "policyType": "BuiltIn",
- "mode": "All",
- "description": "Audit existence of authorization rules on Event Hub entities to grant least-privileged access".

- "metadata": {
  "version": "1.0.0", "category": "Event Hub"
}

- "parameters": {
  "effect": {
    "type": "String",
    "metadata": {
      "displayName": "Effect",
      "description": "Enable or disable the execution of the policy",
      "allowedValues": ["AuditIfNotExists", "Disabled",
    ]
  }
}

- "policyRule": {
  "if": {
    "field": ".Microsoft.EventHub/namespaces/eventhubs/authorizationRules", "exists": "true",
    "field": ".Microsoft.EventHub/namespaces/eventhubs/authorizationRules", "in": [{
      "field": "Microsoft.EventHub/namespaces/eventhubs/authorizationRules", "exists": "true"
    }]
  },
  "then": {
    "effect": "audit",
    "details": {
      "type": "Microsoft.EventHub/namespaces/eventhubs/authorizationRules",
      "name": "f47b5582-33ec-4c5c-87c0-b010a6b2e917"
    }
  }
}
should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that do not have the password complexity setting enabled.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol,"metadata":{"version":"1.0.0-preview","category":"Guest Configuration","preview":true},"policyRule":{"if":{"anyOf":["allOf":["field":"type","equals":"Microsoft.Compute/virtualMachines"],"anyOf":["field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"],"allOf":["field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"],"field":"Microsoft.Compute/imageSKU","notLike":"2008*"],"allOf":["field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftSQLServer"],"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"],"allOf":["field":"Microsoft.Compute/imagePublisher","equals":"microsoft-dsvm"],"field":"Microsoft.Compute/imageOffer","equals":"dsvm-windows"],"allOf":["field":"Microsoft.Compute/imagePublisher","equals":"microsoft-ads"],"field":"Microsoft.Compute/imageOffer","in":["standard-data-science-vm","windows-data-science-vm"],"allOf":["field":"Microsoft.Compute/imagePublisher","equals":"batch"],"field":"Microsoft.Compute/imageOffer","equals":"rendering-windows2016"],"allOf":["field":"Microsoft.Compute/imageOffer","like":"cis-windows-server-201*"],"allOf":["field":"Microsoft.Compute/imagePublisher","equals":"pivotal"],"field":"Microsoft.Compute/imageOffer","like":"bosh-windows-server*"],"allOf":["field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructure-services"],"field":"Microsoft.Compute/imageOffer","like":"ad*"],"allOf":["anyOf":["field":"Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration","exists":true],"field":"Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType","like":"Windows*"],"anyOf":["field":"Microsoft.Compute/imageSKU","notLike":"2008*"],"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"],"allOf":["field":"type","equals":"Microsoft.WindowsServerHPCPack"],"field":"Microsoft.Compute/imagePublisher","equals":"microsoft-dsvm"],"field":"Microsoft.Compute/imageOffer","equals":"dsvm-windows"],"allOf":["field":"Microsoft.Compute/imagePublisher","equals":"microsoft-ads"],"field":"Microsoft.Compute/imageOffer","in":["standard-data-science-vm","windows-data-science-vm"],"allOf":["field":"Microsoft.Compute/imagePublisher","equals":"batch"],"field":..."},"then":{"effect":"auditIfNotExists","details":{"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"PasswordMustMeetComplexityRequirements","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus","equals":"Compliant"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/f48b2913-1dc5-4834-8c72-ccc1fd819bb","type":"Microsoft.Authorization/policyDefinitions","name":"f48b2913-1dc5-4834-8c72-ccc1fd819bb"},"properties":{"displayName":"Microsoft Managed Control 1495 - System Security Plan","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Planning control","metadata":{"version":"1.0.0","category":" Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1495"},"policyRule":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"value":false,"equals":true"],"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/f4978d0e-a596-48e7-9f8c-bbf52554ce8d","type":"Microsoft.Authorization/policyDefinitions","name":"f4978d0e-a596-48e7-9f8c-bbf52554ce8d"},"properties":{"displayName":"Microsoft Managed Control 1495 - System Security Plan","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Planning control","metadata":null,"policyRule":null,"id":null,"type":null,"name":null,"properties":null}. Deploy prerequisites to audit Windows VMs that have not restarted within the specified number of days.,"policyType":"BuiltIn","mode":"Indexed","description":"This policy creates a Guest Configuration assignment to audit Windows virtual machines that have not restarted within the specified number of days. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding
audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":null,"requiredProviders":null,"parameters":null,"NumberOfDays":null,"description":null}

```json
oLower(parameters("type")),
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  "/Microsoft.GuestConfiguration/configurations/" + parameters("configurationName")], "location": [parameters("location")], "properties": {
    "guestConfiguration": {
      "name": [parameters("configurationName")], "version": "1.*", "configurationParameter": {
        "name": ["MachineUpTime", "MachineLastBootUpTime", "NumberOfDays"], "value": [parameters("NumberOfDays")]
      }
    }, "condition": {equals(toLower(parameters("type")))},
      "type": "SystemAssigned"}, "name": parameters("vmName")], "location": [parameters("location")], "dependsOn": [
      [concat("Microsoft.Compute/virtualMachines/", parameters("vmName"), "/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/", parameters("configurationName")]
    ]}
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parameters("location"),
parameters("storageAccountsResourceGroup"),"locationCode": [substring(parameters("location"), 0, 3)],"storageName": [tolower(concat("sqlaudit", variables("locationCode")), variables("uniqueStorage"))],"createStorageAccountDeploymentName": [concat("sqlServerAuditingStorageAccount-", uniqueString(variables("locationCode"), parameters("serverName")))],
"resources": ["apiVersion": "2017-05-10", "name": [variables("createStorageAccountDeploymentName")], "type": "Microsoft.Resources/deployments","resourceGroup": [parameters("storageAccountsResourceGroup")], "properties": {"mode": "Incremental", "parameters": {"location": ["value": [parameters("location")]], "storageName": ["value": [variables("storageName")]]}, "templateLink": {"uri": "https://raw.githubusercontent.com/Azure/azure-policy/master/samples/SQL/deploy-sql-server-auditing/createStorage.template.json", "contentVersion": "1.0.0.0"}], "name": [concat(parameters("serverName"), "/Default")], "type": "Microsoft.Sql/servers/auditingSettings","apiVersion": "2017-03-01-preview", "properties": {"state": "Enabled", "storageEndpoint": [reference(variables("createStorageAccountDeploymentName")).outputs.storageAccountEndpoint.value], "storageAccountAccessKey": [reference(variables("createStorageAccountDeploymentName")).outputs.storageAccountKey.value], "retentionDays": [variables("retentionDays")], "storageAccountSubscriptionId": [subscription().subscriptionId], "isStorageSecondaryKeyInUse": false}, "location": ["value": [field("location")]], "auditRetentionDays": ["value": [parameters("retentionDays")]], "storageAccountSubscriptionGroup": ["value": [variables("storageAccountsResourceGroup")]], "location": ["value": [field("location")]]}], "id": "/providers/Microsoft.Authorization/policyDefinitions/f4c68484-132f-41f9-9b6d-3e4b1cb55036","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f509c5b6-0de0-4a4e-9b2e-cd9cbf3a58fd","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f52f89aa-4489-4ec4-950e-8c96a036baa9","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f52f89aa-4489-4ec4-950e-8c96a036baa9", "displayName": "/Default""])}, 
"type": "Microsoft.Sql/servers/auditingSettings"}, "apiVersion": "2017-03-01-preview"}, "properties": {"state": "Enabled", "storageEndpoint": [reference(variables("createStorageAccountDeploymentName")).outputs.storageAccountEndpoint.value], "storageAccountAccessKey": [reference(variables("createStorageAccountDeploymentName")).outputs.storageAccountKey.value], "retentionDays": [variables("retentionDays")], "storageAccountSubscriptionId": [subscription().subscriptionId], "isStorageSecondaryKeyInUse": false}, "location": ["value": [field("location")]], "auditRetentionDays": ["value": [parameters("retentionDays")]], "storageAccountSubscriptionGroup": ["value": [variables("storageAccountsResourceGroup")]], "location": ["value": [field("location")]]}], "id": "/providers/Microsoft.Authorization/policyDefinitions/f4c68484-132f-41f9-9b6d-3e4b1cb55036","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f4c68484-132f-41f9-9b6d-3e4b1cb55036","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f509c5b6-0de0-4a4e-9b2e-cd9cbf3a58fd","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f52f89aa-4489-4ec4-950e-8c96a036baa9","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f52f89aa-4489-4ec4-950e-8c96a036baa9", "displayName": "/Default"], 
"type": "Microsoft.Sql/servers/auditingSettings"}, "apiVersion": "2017-03-01-preview"}, "properties": {"state": "Enabled", "storageEndpoint": [reference(variables("createStorageAccountDeploymentName")).outputs.storageAccountEndpoint.value], "storageAccountAccessKey": [reference(variables("createStorageAccountDeploymentName")).outputs.storageAccountKey.value], "retentionDays": [variables("retentionDays")], "storageAccountSubscriptionId": [subscription().subscriptionId], "isStorageSecondaryKeyInUse": false}, "location": ["value": [field("location")]], "auditRetentionDays": ["value": [parameters("retentionDays")]], "storageAccountSubscriptionGroup": ["value": [variables("storageAccountsResourceGroup")]], "location": ["value": [field("location")]]}], "id": "/providers/Microsoft.Authorization/policyDefinitions/f4c68484-132f-41f9-9b6d-3e4b1cb55036","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f4c68484-132f-41f9-9b6d-3e4b1cb55036","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f509c5b6-0de0-4a4e-9b2e-cd9cbf3a58fd","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f509c5b6-0de0-4a4e-9b2e-cd9cbf3a58fd","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f52f89aa-4489-4ec4-950e-8c96a036baa9","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f52f89aa-4489-4ec4-950e-8c96a036baa9", "displayName": "/Default"], 
"type": "Microsoft.Sql/servers/auditingSettings"}, "apiVersion": "2017-03-01-preview"}, "properties": {"state": "Enabled", "storageEndpoint": [reference(variables("createStorageAccountDeploymentName")).outputs.storageAccountEndpoint.value], "storageAccountAccessKey": [reference(variables("createStorageAccountDeploymentName")).outputs.storageAccountKey.value], "retentionDays": [variables("retentionDays")], "storageAccountSubscriptionId": [subscription().subscriptionId], "isStorageSecondaryKeyInUse": false}, "location": ["value": [field("location")]], "auditRetentionDays": ["value": [parameters("retentionDays")]], "storageAccountSubscriptionGroup": ["value": [variables("storageAccountsResourceGroup")]], "location": ["value": [field("location")]]}], "id": "/providers/Microsoft.Authorization/policyDefinitions/f4c68484-132f-41f9-9b6d-3e4b1cb55036","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f4c68484-132f-41f9-9b6d-3e4b1cb55036","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f509c5b6-0de0-4a4e-9b2e-cd9cbf3a58fd","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f509c5b6-0de0-4a4e-9b2e-cd9cbf3a58fd","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f52f89aa-4489-4ec4-950e-8c96a036baa9","type": "Microsoft.Authorization/policyDefinitions","name": "/providers/Microsoft.Authorization/policyDefinitions/f52f89aa-4489-4ec4-950e-8c96a036baa9", "displayName": "/Default"], 
"type": "Microsoft.Sql/servers/auditingSettings"}
along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

```json
"Open Source Used in SDWan 20.7.1"

8856

along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

```
parameters("configurationName")], "location": [parameters("location")], "properties": {
  "guestConfiguration": {
    "name": [parameters("configurationName")],
    "version": "1.1.0",
    "configurationParameter": {
      "name": "Network access: Remotely accessible registry paths;ExpectedValue",
      "value": [parameters("NetworkAccessRemotelyAccessibleRegistryPaths")]
    },
    "name": "Network access: Remotely accessible registry paths and sub-paths;ExpectedValue",
    "value": [parameters("NetworkAccessRemotelyAccessibleRegistryPathsAndSubpaths")]
  },
  "name": "Network access: Shares that can be accessed anonymously;ExpectedValue",
  "value": [parameters("NetworkAccessSharesThatCanBeAccessedAnonymously")]
}],
  "condition": [
    "equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines")),
    "apiVersion": "2019-07-01",
    "type": "Microsoft.Compute/virtualMachines",
    "identity": {
      "type": "SystemAssigned",
      "name": [parameters("vmName")],
      "location": [parameters("location")]
    },
    "condition": [
      "equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines")),
      "apiVersion": "2015-05-01-preview",
      "name": [concat(parameters("vmName"), "/AzurePolicyforWindows")],
      "type": "Microsoft.Compute/virtualMachines/extensions",
      "location": [parameters("location")]
    ]
  ]
}];

"id": "/providers/Microsoft.Authorization/policyDefinitions/f56a3ab2-89d1-44de-ac0d-2ada5962e22a",
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"name": "f56a3ab2-89d1-44de-ac0d-2ada5962e22a",
"properties": {
  "displayName": "Microsoft Managed Control 1198 - Configuration Change Control | Security Representative",
  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this Configuration Management control",
  "metadata": {
    "version": "1.0.0",
    "category": "Regulatory Compliance",
    "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1198",
    "policyRule": {
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        "value": false,
        "equals": true
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      "then": {
        "effect": "audit"
      }
    }
  }
}];

"id": "/providers/Microsoft.Authorization/policyDefinitions/f56be5c3-660b-4c61-9078-f67cf072c356",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "f56be5c3-660b-4c61-9078-f67cf072c356",
"properties": {
  "displayName": "Microsoft Managed Control 1328 - Authenticator Management | Password-Based Authentication",
  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this Identification and Authentication control",
  "metadata": {
    "version": "1.0.0",
    "category": "Regulatory Compliance",
    "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1328",
    "policyRule": {
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        "allOf": [
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        "value": false,
        "equals": true
      },
      "then": {
        "effect": "audit"
      }
    }
  }
}];

"id": "/providers/Microsoft.Authorization/policyDefinitions/55c66fde-3d02-4034-9db5-ba578026909de",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "55c66fde-3d02-4034-9db5-ba578026909de",
"properties": {
  "displayName": "Microsoft Managed Control 1193 - Configuration Change Control | Automated Document / Notification / Prohibition Of Changes",
  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this Configuration Management control",
  "metadata": {
    "version": "1.0.0",
    "category": "Regulatory Compliance",
    "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1193",
    "policyRule": {
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        "value": false,
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}];
Virtual machines should be protected with Network Security Groups.

Managed Control 1214 - Least Functionality: Microsoft implements this Configuration Management control, metadata: "1.0.0", "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1214", "policyRule": ":{""field":"type",""in":"["Microsoft.Compute/virtualMachines","Microsoft.ClassicCompute/virtualMachines"],"then": [{"effect":"AuditIfNotExists"}],"details": [{"type":"Microsoft.Security/complianceResults"}], "name": "Microsoft.Managed Control 1214 - Least Functionality | Microsoft implements this configuration management control.

Managed Control 1591 - External Information System Services | Ident. Of Functions / Ports / Protocols / Services: Microsoft implements this System and Services Acquisition control, metadata: "1.0.0", "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1591", "policyRule": ":{""field":"type",""in":"["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"then": [{"effect":"Audit"}],"details": [{"type":"Microsoft.Security/complianceResults"}], "name": "Microsoft.Managed Control 1591 - External Information System Services | Ident. Of Functions / Ports / Protocols / Services: Microsoft implements this system and services acquisition control.

Managed Control 1330 - Authenticator Management | Password-Based Authentication: Microsoft implements this Identification and Authentication control, metadata: "1.0.0", "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1330", "policyRule": ":{""field":"type",""in":"["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"then": [{"effect":"Audit"}],"details": [{"type":"Microsoft.Security/complianceResults"}], "name": "Microsoft.Managed Control 1330 - Authenticator Management | Password-Based Authentication: Microsoft implements this identification and authentication control.

Managed Control 1540 - Security Categorization: Microsoft implements this Information Security Categorization control, metadata: "1.0.0", "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1540", "policyRule": ":{""field":"type",""in":"["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"then": [{"effect":"Audit"}],"details": [{"type":"Microsoft.Security/complianceResults"}], "name": "Microsoft.Managed Control 1540 - Security Categorization: Microsoft implements this information security categorization control.

Internet-facing virtual machines should be protected with Network Security Groups.
implement this Risk Assessment control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1540"}, "policyRule": {
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  "properties": {
    "displayName": "Microsoft Managed Control 1449 - Physical Access Authorizations",
    "policyType": "Static",
    "mode": "Indexed",
    "description": "Microsoft implements this Physical and Environmental Protection control",
    "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1449"},
    "policyRule": {
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          "equals": "true"
        }],
        "then": {
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        "policyType": "Static",
        "mode": "Indexed",
        "description": "Microsoft implements this Personnel Security control",
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            }],
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            "policyType": "BuiltIn",
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            "metadata": {"version": "1.0.0", "category": "Guest Configuration"},
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                    }, {
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                      }],
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                          "equals": "dsvm-windows"
                        }],
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                          "equals": "microsoft-ads"
                        }]
                      }]
                    }
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                  }, {
                    "field": "Microsoft.Compute/imagePublisher",
                    "like": "cis-windows-server-
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                }
              }]
            }
          }
        }]
      }
    }
  }
}
07782dd24c"],"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"AzureBaseline_SystemAuditPoliciesSystem","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash","equals":\[base64(concat\("Audit Other System Events;ExpectedValue\"",\"=",parameters\("AuditOtherSystemEvents\"\))\]}],"deployment":{"properties":{"mode":"incremental","parameters":{"vmName":{"value":\[field\("name\"")\]},"location":{"value":\[field\("location\"")\]},"type":{"value":\[field\("type\"")\]},"configurationName":{"value":\"AzureBaseline_SystemAuditPoliciesSystem\"},"AuditOtherSystemEvents":{"value":\[parameters\("AuditOtherSystemEvents\"\)]},"template":\{"$schema":\"https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json\#\",\"contentVersion\":\"1.0.0.0\",\"parameters":{"vmName":{"type":"string"},"location":{"type":"string"},"configurationName":{"type":"string"},"AuditOtherSystemEvents":{"type":"string"}},\"resources":{\"condition\":\"[equals(toLower(parameters\("type\")),
toLower\("microsoft.hybridcompute/machines\")\]),\"apiVersion\":\"2018-11-20\",\"type\":\"Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments\",\"name\":\[concat(parameters\("vmName\"),\"/Microsoft.GuestConfiguration/\"\"configurationName\"]\}),\"location\":\[parameters\("location\")\],\"properties":{\"guestConfiguration":{\"name\":\[parameters\("configurationName\")\],\"version\":\"1.*\",\"configurationParameter":{\"name\":\"Audit Other System Events;ExpectedValue\",\"value\":\[parameters\("AuditOtherSystemEvents\"\)]}}}],\"condition\":\[equals(toLower(parameters\("type\")),
toLower\("Microsoft.Compute/virtualMachines\")\]),\"apiVersion\":\"2018-11-20\",\"type\":\"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments\",\"name\":\[concat(parameters\("vmName\")\]},\"location\":\[parameters\("location\")\],\"configurationName":\[parameters\("configurationName\")\],\"version\":\"1.*\",\"configurationParameter":{\"name\":\"Audit Other System Events;ExpectedValue\",\"value\":\[parameters\("AuditOtherSystemEvents\"\)]}]],\"condition\":\[equals(toLower(parameters\("type\")),
toLower\("Microsoft.Compute/virtualMachines\")\]),\"apiVersion\":\"2019-07-01\",\"type\":\"Microsoft.Compute/virtualMachines\",\"identity":{\"type\":\"SystemAssigned\"},\"name\":\[parameters\("vmName\")\],\"location\":\[parameters\("location\")\]],\"condition\":\[equals(toLower(parameters\("type\")),
toLower\("Microsoft.Compute/virtualMachines\")\]),\"apiVersion\":\"2015-05-01-preview\",\"name\":\[concat(parameters\("vmName\"),\"/AzurePolicyforWindows\")\],\"type\":\"Microsoft.Compute/virtualMachines/extensions\",\"location\":\[parameters\("location\")\],\"properties":{\"publisher\":\"Microsoft.GuestConfiguration\",\"type\":\"ConfigurationforWindows\",\"typeHandlerVersion\":\"1.1\",\"autoUpgradeMinorVersion\":true,\"settings":\[\],\"protectedSettings":\[\]},\"dependsOn":\[\"[concat\("Microsoft.Compute/virtualMachines\",\"parameters\("vmName\")\",\"/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments\",\"parameters\("configurationName\")\"]\]]\]},\"id\":\"/providers/Microsoft.Authorization/policyDefinitions/f8b0158d-4766-490f-bea0-259e52db473\",\"type\":\"Microsoft.Authorization/policyDefinitions\",\"name\":\"f8b0158d-4766-490f-bea0-259e52db473\",\"properties":{\"displayName\":\"Diagnostic logs in Service Bus should be enabled\",\"policyType\":\"BuiltIn\",\"mode\":\"Indexed\",\"description\":\"Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes; when a security incident occurs or when your network is compromised\",\"metadata":{\"version\":\"2.0.0\",\"category\":\"Service Bus\"}},\"parameters":{\"effect\":{\"type\":\"String\",\"metadata":{\"displayName\":\"Effect\",\"description\":\"Enable
or disable the execution of the policy"},{"allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}, "requiredRetentionDays": {"type": "String", "metadata": {"displayName": "Required retention (days)"}, "description": "The required diagnostic logs retention in days"}, "defaultValue": "365"}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.ServiceBus/namespaces"}, "then": {"effect": [parameters('effect')], "details": {"type": "Microsoft.Insights/diagnosticSettings", "existenceCondition": {"count": {"field": "Microsoft.Insights/diagnosticSettings/logs[*]", "where": {"anyOf": [{"allOf": [{"field": "Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled", "equals": "true"}, {"anyOf": [{"field": "Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.days", "equals": "0"}, {"field": "Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled", "equals": "true"}]}], "field": "Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.days", "equals": [parameters('requiredRetentionDays')]}]]}, {"field": "Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled", "equals": "true"}]], {"allOf": [{"not": {"field": "Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled", "equals": "true"}},{"field": "Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled", "equals": "true"}]], "greaterOrEquals": 1}, id": "/providers/Microsoft.Authorization/policyDefinitions/f8d36e2f-389b-4ee4-898d-21ab69a0f45", "type": "Microsoft.Authorization/policyDefinitions", "name": "f8d36e2f-389b-4ee4-898d-21ab69a0f45"}, {"properties": {"displayName": "Microsoft Managed Control 1203 - Access Restrictions For Change | Automated Access Enforcement / Auditing", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1203"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]], "then": {"effect": "audit"} }, id": "/providers/Microsoft.Authorization/policyDefinitions/f9012d14-e3e6-4d7b-b926-9f37b5537066", "type": "Microsoft.Authorization/policyDefinitions", "name": "f9012d14-e3e6-4d7b-b926-9f37b5537066"}, {"properties": {"displayName": "Microsoft Managed Control 1697 - Information System Monitoring | Analyze Traffic / Covert Exfiltration", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1697"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]], "then": {"effect": "audit"} }, id": "/providers/Microsoft.Authorization/policyDefinitions/f9873db2-18ad-46b3-a11a-1a1f8cbf0335", "type": "Microsoft.Authorization/policyDefinitions", "name": "f9873db2-18ad-46b3-a11a-1a1f8cbf0335"}, {"properties": {"displayName": "Microsoft Managed Control 1478 - Fire Protection | Suppression Devices / Systems", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1478"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]], "then": {"effect": "audit"} }, id": "/providers/Microsoft.Authorization/policyDefinitions/f997df46-cfbb-4cc8-aac8-3fcdaf6a183", "type": "Microsoft.Authorization/policyDefinitions", "name": "f997df46-cfbb-4cc8-aac8-3fcdaf6a183"}, {"properties": {"displayName": "Microsoft Managed Control 1535 - Personnel Sanctions", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1535"}, "policyRule
Managed Control 1108 - Content Of Audit Records | Additional Audit Information

Microsoft implements this Audit and Accountability control, the metadata:

- version: "1.0.0",
- category: "Regulatory Compliance",
- additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1108"

Microsoft Managed Control 1108 - Content Of Audit Records | Additional Audit Information

Managed Control 1280 - Telecommunications Services | Priority Of Service
Microsoft implements this Contingency Planning control, "metadata": {"version": "1.0.0","category": "Regulatory Compliance","additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1280"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fa108498-b3a8-4fb-9e79-1107e76afad3", "type": "Microsoft.Authorization/policyDefinitions", "name": "fa108498-b3a8-4fb-9e79-1107e76afad3", "properties": {"displayName": "Microsoft Managed Control 1037 - Least Privilege | Network Access To Privileged Commands", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0","category": "Regulatory Compliance","additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1037"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fac2a3d-1294-4a3-9ada-0e54047e9fb", "type": "Microsoft.Authorization/policyDefinitions", "name": "fac2a3d-1294-4a3-9ada-0e54047e9fb", "properties": {"displayName": "Microsoft Managed Control 1435 - Media Transport", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Media Protection control", "metadata": {"version": "1.0.0","category": "Regulatory Compliance","additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1435"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fad221b-d130-4637-ba16-501e666628bb", "type": "Microsoft.Authorization/policyDefinitions", "name": "fad221b-d130-4637-ba16-501e666628bb", "properties": {"displayName": "Microsoft Managed Control 1675 - Flaw Remediation | Time To Remediate Flaws / Benchmarks For Corrective Actions", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0","category": "Regulatory Compliance","additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1675"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fac6660-1c48-478a-bed5-747a31232e1", "type": "Microsoft.Authorization/policyDefinitions", "name": "fac6660-1c48-478a-bed5-747a31232e1", "properties": {"displayName": "Deploy prerequisites to enable Guest Configuration Policy on Linux VMs.", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a system-assigned managed identity and deploys the VM extension for Guest Configuration on Linux VMs. This is a prerequisite for Guest Configuration Policy and must be assigned to the scope before using any Guest Configuration policy. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol."}
Microsoft implements this Configuration Management control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1222" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": true}], "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fb39e62f-6bda-4558-8088-ec03d5670914", "type": "Microsoft.Authorization/policyDefinitions", "name": "fb39e62f-6bda-4558-8088-ec03d5670914" }, "properties": {"displayName": "[Preview]: Kubernetes Services should be upgraded to a non-vulnerable Kubernetes version", "policyType": "BuiltIn", "mode": "Indexed", "description": "Upgrade your Kubernetes service cluster to a later Kubernetes version to protect against known vulnerabilities in your current Kubernetes version. Vulnerability CVE-2019-9946 has been patched in Kubernetes versions 1.11.9+, 1.12.7+, 1.13.5+, and 1.14.0+, "metadata": {"version": "1.0.1-preview"}, "category": "Security Center", "preview": true}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Preview]: Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit" }, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.ContainerService/managedClusters"}, {"anyOf": [{"field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "in": ["1.13.4", "1.13.3", "1.13.2", "1.13.1", "1.13.0"], "field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "in": ["1.12.6", "1.12.5", "1.12.4", "1.12.3", "1.12.2", "1.12.1", "1.12.0"], "field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "in": ["1.11.8", "1.11.7", "1.11.6", "1.11.5", "1.11.4", "1.11.3", "1.11.2", "1.11.1", "1.11.0"], "field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "Like": "1.10.*"}, {"field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "Like": "1.9.*"}, {"field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "Like": "1.8.*"}, {"field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "Like": "1.7.*"}, {"field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "Like": "1.6.*"}, {"field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "Like": "1.5.*"}, {"field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "Like": "1.4.*"}, {"field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "Like": "1.3.*"}, {"field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "Like": "1.2.*"}, {"field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "Like": "1.1.*"}, {"field": "Microsoft.ContainerService/managedClusters/kubernetesVersion", "Like": "1.0.*"}]], "then": {"effect": ["parameters(''effect'')"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fb893a29-21bb-418c-418c-a157-e99480ec364c", "type": Microsoft.Authorization/policyDefinitions", "name": "fb893a29-21bb-418c-a157-e99480ec364c" }, "properties": {"displayName": "Storage account containing the container with activity logs must be encrypted with BYOK", "policyType": "BuiltIn", "mode": "All", "description": "This policy audits if the Storage account containing the container with activity logs is encrypted with BYOK. The policy works only if the storage account lies on the same subscription as activity logs by design. More information on Azure Storage encryption at rest can be found here https://aka.ms/azurestoragebyok."}, "metadata": {"version": "1.0.0", "category": "Monitoring"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists" }, "policyRule": {"if": {"allOf": [{"field": type", "equals": "Microsoft.Insights/logProfiles"}, {"field": "Microsoft.Insights/logProfiles/storageAccountId", "exists": true}], "then": {"effect": ["parameters(''effect'')"]}, "details": {"type": "Microsoft.Storage/storageAccounts", "existenceScope": "subscription", "existenceCondition": {"allOf": [{"value": ["contains(field('Microsoft.Insights/logProfiles/storageAccountId'))"}, "Open Source Used In SDWan 20.7.1 8868".
Show audit results from Windows VMs configurations in "Security Options - Microsoft Network Client". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Microsoft Network Client". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

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**Policy Definitions**

1. **Microsoft Managed Control 1318 - Authenticator**
   - **Policy Type**: Static
   - **Mode**: Indexed
   - **Description**: Microsoft implements this Identification and Authentication control

2. **Microsoft Managed Control 1543 - Risk Assessment**
   - **Policy Type**: Static
   - **Mode**: Indexed
   - **Description**: Microsoft implements this Identification and Authentication control
implements this Risk Assessment control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1543"},"policyRule ":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true"}},{"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/fd0b778-b5b5-49c0-a994-734ea7bd3624","type":"Microsoft.Authorization/policyDefinitions","name":"fd0b778-b5b5-49c0-a994-734ea7bd3624"},"properties":{"displayName":"Microsoft Managed Control 1707 - Security Alerts, Advisories, And Directives | Automated Alerts And Advisories","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1707"},"policyRule ":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true"}},{"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/fd4a2ac8-868a-4702-a345-6c896c3361ce","type":"Microsoft.Authorization/policyDefinitions","name":"fd4a2ac8-868a-4702-a345-6c896c3361ce"},"properties":{"displayName":"Microsoft Managed Control 1299 - Identification And Authentication Policy And Procedures","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Identification and Authentication control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1299"},"policyRule ":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true"}},{"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/fd4e54f7-9ab0-4bae-b6cc-457809948a89","type":"Microsoft.Authorization/policyDefinitions","name":"fd4e54f7-9ab0-4bae-b6cc-457809948a89"},"properties":{"displayName":"Microsoft Managed Control 1627 - Boundary Protection | External Telecommunications Services","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1627"},"policyRule ":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true"}},{"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/fd73310d-76fc-422d-bda4-3a077149f179","type":"Microsoft.Authorization/policyDefinitions","name":"fd73310d-76fc-422d-bda4-3a077149f179"},"properties":{"displayName":"Microsoft Managed Control 1130 - Time Stamps | Synchronization With Authoritative Time Source","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Audit and Accountability control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1130"},"policyRule ":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/ resourceGroups"]},"value":false,"equals":true"}},{"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/fd7c4c1d-51ee-4349-9dab-89a7f8c8d102","type":"Microsoft.Authorization/policyDefinitions","name":"fd7c4c1d-51ee-4349-9dab-89a7f8c8d102"},"properties":{"displayName":"Public network access should be disabled for MariaDB servers","policyType":"BuiltIn","mode":"Indexed","description":"This
policy audits MariaDB servers in your environment with public network access enabled. For more details, visit https://go.microsoft.com/fwlink/?linkid=2119542.

For more details, visit https://go.microsoft.com/fwlink/?linkid=2119542.

Metadata:

displayName: "Microsoft policy definitions for Open Source Used In SDWan"

description: "Policy definitions for Open Source Used In SDWan"

Parameters:

effect: "Audit"

Policy:

type: "Microsoft DB for MariaDB servers"

Policy Rule:

If:

- type is "Microsoft DB for MariaDB servers"

Then:

- effect is "Audit"

Managed Control 1611 - Developer-Provided Training

implement this System and Services Acquisition control.

displayName: "Microsoft Managed Control 1611 - Developer-Provided Training"

description: "Microsoft implements this System and Services Acquisition control"

Managed Control 1405 - Maintenance Tools | Inspect Tools

implement this Maintenance control.

displayName: "Microsoft Managed Control 1405 - Maintenance Tools | Inspect Tools"

description: "Microsoft implements this Maintenance control"

Managed Control 1613 - Developer Security Architecture And Design

implement this System and Services Acquisition control.

displayName: "Microsoft Managed Control 1613 - Developer Security Architecture And Design"

description: "Microsoft implements this System and Services Acquisition control"

Show audit results from Linux VMs that do not have the specified applications installed.

displayName: "Show audit results from Linux VMs that do not have the specified applications installed"

description: "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Linux virtual machines that do not have the specified applications installed. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"
Open Source Used In SDWan 20.7.1

Vulnerabilities on your SQL databases should be remediated.

- policyType: "BuiltIn"
- mode: "Indexed"
- description: "Monitor Vulnerability Assessment scan results and recommendations for how to remediate database vulnerabilities.

Managed Control 1407 - Maintenance Tools | Prevent Unauthorized Removal.
- policyType: "Static"
- mode: "Indexed"
- description: "Microsoft implements this Maintenance control."
Deploy export to Log Analytics workspace for Azure Security Center alerts and recommendations, "policyType": "BuiltIn", "mode": "All", "description": "Enable export to Log Analytics workspace of Azure Security Center alerts and/or recommendations. This policy deploys an export to Log Analytics workspace configuration with your conditions and target workspace on the assigned scope. To deploy this policy on newly created subscriptions, open the Compliance tab, select the relevant non-compliant assignment and create a remediation task.

- parameters: {"resourceGroupName": {"type": "String", "metadata": {"displayName": "Resource group name", "description": "The resource group name where the export to Log Analytics workspace configuration is created. If you enter a name for a resource group that doesn’t exist, it’ll be created in the subscription. Note that each resource group can only have one export to Log Analytics workspace configured."}}, "resourceGroupLocation": {"type": "String", "metadata": {"displayName": "Resource group location", "description": "The location where the resource group and the export to Log Analytics workspace configuration are created."}}, "exportedDataTypes": {"type": "Array", "metadata": {"displayName": "Exported data types", "description": "The data types to be exported. Example: Security recommendations;Security alerts;"}}, "allowedValues": ["Security recommendations", "Security alerts"], "defaultValue": ["Security recommendations", "Security alerts"], "recommendationNames": {"type": "Array", "metadata": {"displayName": "Recommendation IDs", "description": "Applicable only for export of security recommendations. To export all recommendations, leave this empty. To export specific recommendations, enter a list of recommendation IDs separated by semicolons (";”). Recommendation IDs are available through the Assessments API (https://docs.microsoft.com/rest/api/securitycenter/assessments), or Azure Resource Graph Explorer (https://portal.azure.com/#blade/HubsExtension/ArgQueryBlade), choose securityresources and microsoft.security.assessments."). "defaultValue": []}, "recommendationSeverities": {"type": "Array", "metadata": {"displayName": "Recommendation severities", "description": "Applicable only for export of security recommendations. Determines recommendation severities. Example: High;Medium;Low;"}}, "alertSeverities": {"type": "Array", "metadata": {"displayName": "Alert severities", "description": "Applicable only for export of security alerts. Determines alert severities. Example: High;Medium;Low;"}}, "workspaceResourceId": {"type": "String", "metadata": {"displayName": "Log Analytics workspace", "description": "The Log Analytics workspace of where the data should be exported to. If you do not already have a log analytics workspace, visit Log Analytics workspaces to create one (https://portal.azure.com/#blade/HubsExtension/BrowseResource/resourceType/Microsoft.OperationalInsights%2Fworkspaces)."}, "assignPermissions": true}},
Export Azure Security Center alerts and/or recommendations to Log Analytics workspace via policy.

The policy copies key data types to Log Analytics workspace based on the `exportedDataTypes` parameter.

```json
definitions:
  - name: ExportToWorkspace
    parameters:
      - name: resourceGroupName
        description: The name of the resource group.
      - name: resourceGroupLocation
        description: The location of the resource group.
      - name: exportedDataTypes
        description: The data types to export.
      - name: recommendationNames
        description: The names of the recommendations to export.
      - name: recommendationSeverities
        description: The severities of the recommendations to export.
      - name: alertSeverities
        description: The severities of the alerts to export.
      - name: workspaceResourceId
        description: The ID of the Log Analytics workspace.

    actions:
      - name: ExportToWorkspace
        description: Export Azure Security Center alerts and/or recommendations to Log Analytics workspace via policy.
        parameters:
          - name: resourceGroupName
            description: The name of the resource group.
          - name: resourceGroupLocation
            description: The location of the resource group.
          - name: exportedDataTypes
            description: The data types to export.
          - name: recommendationNames
            description: The names of the recommendations to export.
          - name: recommendationSeverities
            description: The severities of the recommendations to export.
          - name: alertSeverities
            description: The severities of the alerts to export.
          - name: workspaceResourceId
            description: The ID of the Log Analytics workspace.
```

**Managed Control 1158 - Security Authorization**

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Security Assessment and Authorization control.

**Policy Rule**

- **If**: `type == "Microsoft.Resources/subscriptions|subscriptions"`
- **Then**: `effect = "audit"`

**Parameters**

- **maximumValidityInMonths**: The maximum validity in months.
- **effect**: Enables or disables the execution of the policy.

**Metadata**

- **Version**: 1.0.0
- **Category**: Regulatory Compliance
- **AdditionalMetadataId**: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1158

**Policy Definitions**

- **id**: /providers/Microsoft.Authorization/policyDefinitions/ffb6f416-7bd2-4488-8828-56585f2ebe9
- **type**: Microsoft.Authorization/policyDefinitions
- **name**: ffb6f416-7bd2-4488-8828-56585f2ebe9
- **properties**: "displayName": "Microsoft Managed Control 1158 - Security Authorization"
Open Source Used In SDWan

1. **Kubernetes**
   - **Deprecated**, "category": "Kubernetes service",
   - **Deprecated**: true,
   - **Parameters**:
     - "allowedContainerPortsRegex": {
       "type": "String",
       "metadata": {
         "displayName": "[Deprecated]: Allowed container ports regex",
         "description": "Regex representing container ports allowed in Kubernetes cluster. E.g. Regex for allowing ports 443,446 is ^\(44(3|446)\)$"},
       "effect": "[deprecated]: Effect",
       "metadata": {
         "displayName": "[Deprecated]: Effect",
         "description": "Enable or disable the execution of the policy"},
       "allowedValues": ["EnforceRegoPolicy", "Disabled"],
       "defaultValue": "EnforceRegoPolicy"}
   - **Policy Rule**: if: {"field": "type", "equals": "Microsoft.ContainerService/managedClusters"}, then: {
     "effect": [parameters("effect")],
     "details": {
       "policyId": "ContainerAllowedPorts",
       "policyParameters": {
         "allowedContainerPortsRegex": [parameters("allowedContainerPortsRegex")]
       }
     }
   }
   - **ID**: /providers/Microsoft.Authorization/policyDefinitions/0f636243-1b1c-4d50-880f-310f6199f2cb
   - **Type**: Microsoft.Authorization/policyDefinitions
   - **Name**: 0f636243-1b1c-4d50-880f-310f6199f2cb
   - **Properties**: {
     "displayName": "[Preview]: Manage allowed certificate key types",
     "policyType": "BuiltIn",
     "mode": "Microsoft.KeyVault.Data",
     "description": "This policy manages the allowed key types for certificates.
     - **Parameters**:
       - "allowedKeyTypes": {
         "type": "Array",
         "metadata": {
           "displayName": "[Preview]: Allowed key types",
           "description": "The list of allowed certificate key types."},
         "allowedValues": ["RSA", "RSA-HSM", "EC", "EC-HSM"],
         "defaultValue": ["RSA", "RSA-HSM"]
       }
       "effect": "[parameters("effect")]",
       "metadata": {
         "displayName": "[Preview]: Effect",
         "description": "Enable or disable the execution of the policy"},
       "allowedValues": ["audit", "deny", "disabled"],
       "defaultValue": "audit"}
   - **Policy Rule**: if: {
     "field": "Microsoft.KeyVault.Data/vaults/certificates/keyProperties.keyType",
     "notIn": [parameters("allowedKeyTypes")]
   }
   - **ID**: /providers/Microsoft.Authorization/policyDefinitions/1151cede-290b-4ba0-8b38-0ad145ac888f
   - **Type**: Microsoft.Authorization/policyDefinitions
   - **Name**: 1151cede-290b-4ba0-8b38-0ad145ac888f
   - **Properties**: {
     "displayName": "[Preview]: Manage certificate lifetime action triggers",
     "policyType": "BuiltIn",
     "mode": "Microsoft.KeyVault.Data",
     "description": "This policy manages the configuration for certificate lifetime action triggers before certificate expiration.
     - **Parameters**:
       - "maximumPercentageLife": {
         "type": "Integer",
         "metadata": {
           "displayName": "[Preview]: The maximum lifetime percentage",
           "description": "Enter the percentage of lifetime of the certificate when you want to trigger the policy action. For example, to trigger a policy action at 80% of the certificate's valid life, enter "80".
         }
       },
       "minimumDaysBeforeExpiry": {
         "type": "Integer",
         "metadata": {
           "displayName": "[Preview]: The minimum days before expiration",
           "description": "Enter the days before expiration of the certificate when you want to trigger the policy action. For example, to trigger a policy action 90 days before the certificate's expiration, enter "90".
         }
       }
   - **Effect**: "[parameters("effect")]
   - **Metadata**: {
     "displayName": "[Preview]: Effect",
     "description": "Enable or disable the execution of the policy"},
   - **Allowed Values**: ["audit", "deny", "disabled"],
   - **Default Value**: "audit"
   - **Policy Rule**: if: {
     "anyOf": [{
       "field": "Microsoft.KeyVault.Data/vaults/certificates/lifetimeAction.daysBeforeExpiry",
       "exists": true,
       "less": [parameters("minimumDaysBeforeExpiry")]
     }, {
       "exists": true,
       "greater": [parameters("maximumPercentageLife")]
     }]
   }
policy helps provide log filter expression and datastore to be used for full logs in specified Azure Machine Learning computes and can be assigned at the workspace. For more information, visit https://aka.ms/amlpolicydoc.

```json
"parameters": {
  "computeNames": {
    "type": "Array",
    "metadata": {
      "displayName": "[Preview]: Compute names where Azure ML jobs run",
      "description": "List of compute names where this policy should be applied. Ex. cpu-cluster;gpu-cluster. If no value is provided to this parameter then policy is applicable to all computes."
    }
  },
  "defaultValues": []
},
"logFilters": {
  "type": "Array",
  "metadata": {
    "displayName": "[Preview]: Log filter expressions",
    "description": "List of log filter expressions used to filter logs. Ex. ^prefix1.*$"
  }
},
"datastore": {
  "type": "String",
  "metadata": {
    "displayName": "[Preview]: Datastore",
    "description": "Datastore used to store filtered logs. Ex. LogsDatastore which is configured in AML."
  }
},
"effect": {
  "type": "String",
  "metadata": {
    "displayName": "[Preview]: Effect",
    "description": "Enable or disable the execution of the policy.
  
  allowedValues": ["enforceSetting", "disabled"],
  "defaultValue": "enforceSetting"
    }
},
"policyRule": {
  "if": {
    "anyOf": [
      {
        "in": 
        "[parameters('computeNames')]"
      },
      {
        "value": [length(parameters('computeNames'))],
        "equals": 0
      }
    ]
  },
  "then": {
    "effect": [parameters('effect')]
  }
}
```

Compute names where Azure ML jobs run

```json
"computeNames": []
```

Log filter expressions

```json
"logFilters": []
```

Datastore

```json
"datastore": "LogsDatastore"
```

Effect

```json
"effect": "enforceSetting"
```

Ensure services listen only on allowed ports in Kubernetes cluster

```json
"allowedServicePortsList": []
```

For instructions on using this policy, visit https://aka.ms/kubepolicydoc.

```json
"allowedNamespaces": []
```

Effect

```json
"effect": "enforceOPAConstraint"
```

Namespace exclusions

```json
"excludedNamespaces": []
```

Ensure services listen only on allowed ports in AKS

```json
"allowedServicePortsList": []
```

For instructions on using this policy, visit https://aka.ms/kubepolicydoc.

```json
"excludedNamespaces": []
```

Effect

```json
"effect": "enforceOPAConstraint"
```

Namespace exclusions

```json
"excludedNamespaces": []
```
Open Source Used In SDWan 20.7.1 8880

Policy enforces services to listen only on allowed ports in an Azure Kubernetes Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies.

For Kubernetes service, "parameters": {"allowedServicePortsRegex": {"type": "String", "metadata": {"displayName": "[Deprecated]: Allowed service ports regex", "description": "Regex representing service ports allowed in Kubernetes cluster. E.g. Regex for allowing ports 443,446 is ^\(443|446\)$"}, "effect": {"type": "String", "metadata": {"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["EnforceRegoPolicy", "Disabled"], "defaultValue": "EnforceRegoPolicy"} }, "policyRule": { "if": { "field": "type", "equals": "Microsoft.ContainerService/managedClusters" }, "then": { "effect": "[parameters("effect")]", "details": { "policyId": "ServiceAllowedPorts", "policy": "https://raw.githubusercontent.com/Azure/azure-policy/master/built-in-references/KubernetesService/service-allowed-ports/limited-preview/gatekeeperpolicy.rego", "policyParameters": {"allowedServicePortsRegex": [parameters("allowedServicePortsRegex")] } } } } }

For HTTPs ingress in AKS, "parameters": {"computeNames": {"type": "Array", "metadata": {"displayName": "[Preview]: Compute names where Azure ML jobs run", "description": "List of compute names where this policy should be applied. Ex. cpu-cluster;gpu-cluster. If no value is provided to this parameter then policy is applicable to all computes."}, "defaultValue": []}, "approvalEndpoint": {"type": "String", "metadata": {"displayName": "[Preview]: Approval endpoint that needs to be called before an Azure ML job is run. Ex. http://amlrunapproval/approve"}, "effect": {"type": "String", "metadata": {"displayName": "[Preview]: Approval endpoint that needs to be called before an Azure ML job is run. Ex. http://amlrunapproval/approve"}}}}

For Kubernetes service, "parameters": {"allowedServicePortsRegex": {"type": "String", "metadata": {"displayName": "[Deprecated]: Allowed service ports regex", "description": "Regex representing service ports allowed in Kubernetes cluster. E.g. Regex for allowing ports 443,446 is ^\(443|446\)$"}, "effect": {"type": "String", "metadata": {"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["EnforceRegoPolicy", "Disabled"], "defaultValue": "EnforceRegoPolicy"} }, "policyRule": { "if": { "field": "type", "equals": "Microsoft.ContainerService/managedClusters" }, "then": { "effect": "[parameters("effect")]", "details": { "policyId": "HttpsIngressOnly", "policy": "https://raw.githubusercontent.com/Azure/azure-policy/master/built-in-references/KubernetesService/ingress-https-only/limited-preview/gatekeeperpolicy.rego", "policyParameters": {"allowedServicePortsRegex": [parameters("allowedServicePortsRegex")] } } } } }

For Azure Machine Learning, "parameters": {"computeNames": {"type": "Array", "metadata": {"displayName": "[Preview]: Compute names where Azure ML jobs run", "description": "List of compute names where this policy should be applied. Ex. cpu-cluster;gpu-cluster. If no value is provided to this parameter then policy is applicable to all computes."}, "defaultValue": []}, "approvalEndpoint": {"type": "String", "metadata": {"displayName": "[Preview]: Approval endpoint that needs to be called before an Azure ML job is run. Ex. http://amlrunapproval/approve"}, "effect": {"type": "String", "metadata": {"displayName": "[Preview]: Approval endpoint that needs to be called before an Azure ML job is run. Ex. http://amlrunapproval/approve"}}}}

Configuring an approval endpoint can be a critical aspect of ensuring the security and compliance of your Azure Machine Learning environments. This involves setting up approval endpoints that must be called by Azure ML jobs prior to running specified compute resources. By configuring these endpoints, you can ensure that all jobs are reviewed and approved before execution, enhancing the overall security and management of your Azure Machine Learning computations.

In Azure Machine Learning, the approval endpoint policy can be configured using the Azure Portal or Azure CLI. The policy definition includes parameters such as the compute names and the approval endpoint URL. The compute names parameter identifies the specific Azure Machine Learning compute environments that the policy applies to, allowing for granular control over which jobs are subject to the approval process. The approval endpoint parameter specifies the URL that must be called by each job before it runs, providing a crucial layer of security and compliance.

By implementing this policy, you ensure that all Azure Machine Learning jobs run through a controlled and monitored path, enhancing the overall security posture of your machine learning workflows. This approach not only improves compliance with relevant regulations and best practices but also helps in maintaining a consistent and secure execution environment for your machine learning models.
Effect","description":"Enable or disable the execution of the policy.","allowedValues": ["enforceSetting", "disabled"],"defaultValue": "enforceSetting" }, "policyRule": { "if": { "anyOf": [ { "field": "Microsoft.MachineLearningServices.Data/workspaces/computes/name", "in": [ parameters("computeNames") ] }, { "value": [ length(parameters("computeNames")) ], "equals": 0 ] } ], "then": { "effect": [ parameters("effect") ], "details": { "setting": { "name": "approvalEndpoint", "value": [ parameters("approvalEndpoint") ] } } } } }

Enable internal load balancers in Kubernetes cluster,"policyType": "BuiltIn", "mode": "Microsoft.Kubernetes.Data", "description": "This policy enforces load balancers do not have public IPs in a Kubernetes cluster. For instructions on using this policy, visit https://aka.ms/kubepolicydoc.


Ensure containers listen only on allowed ports in Kubernetes cluster,"policyType": "BuiltIn", "mode": "Microsoft.Kubernetes.Data", "description": "This policy enforces containers to listen only on allowed ports in a Kubernetes cluster. For instructions on using this policy, visit https://aka.ms/kubepolicydoc.


Open Source Used In SDWan 20.7.1 8881
Enforce labels on pods in Kubernetes

- **Display Name**: [Preview]: Enforce labels on pods in Kubernetes cluster
- **Policy Type**: BuiltIn
- **Mode**: Microsoft.Kubernetes.Data
- **Description**: This policy enforces the specified labels are provided for pods in a Kubernetes cluster. For instructions on using this policy, visit [https://aka.ms/kubepolicydoc](https://aka.ms/kubepolicydoc).
- **Metadata**: Version: 3.0.0-preview, Category: Kubernetes, Preview: true
- **Parameters**:
  - **LabelsList**: Type: Array
    - **Display Name**: [Preview]: List of labels
    - **Description**: The list of labels to be specified on pods in a Kubernetes cluster.
  - **Effect**: Type: String
    - **Display Name**: [Preview]: Effect
    - **Description**: Enable or disable the execution of the policy.
    - **Allowed Values**: [enforceOPACOnstraint, disabled]
    - **DefaultValue**: enforceOPACOnstraint
  - **ExcludeDNamespaces**: Type: Array
    - **Display Name**: [Preview]: Namespace exclusions
    - **Description**: List of Kubernetes namespaces to exclude from policy evaluation. Providing a value for this parameter is optional.
    - **DefaultValue**: []

**Policy Rule**

- **If**:
  - Any of:
    - **Field**: Microsoft.MachineLearningServices.Data/workspaces/computes/name
    - **Value**: length(parameters(computeNames))
- **Then**: Enforce Setting
  - **Details**: Setting name: allowedModuleAuthors, value: parameters(allowedModuleAuthors)

**Allowed Module Authors**

- **Display Name**: [Preview]: Allowed module authors
- **Description**: List of module authors for specified Azure Machine Learning computes.
- **Policy Type**: BuiltIn
- **Mode**: Microsoft.MachineLearningServices.Data
- **Description**: This policy helps provide allowed module authors in specified Azure Machine Learning computes and can be assigned at the workspace. For more information, visit [https://aka.ms/amlpolicydoc](https://aka.ms/amlpolicydoc).
- **Metadata**: Version: 1.0.0-preview, Category: Machine Learning, Preview: true
- **Parameters**:
  - **ComputeNames**: Type: Array
    - **Display Name**: [Preview]: Compute names where Azure ML jobs run
    - **Description**: List of compute names where this policy should be applied. Ex. cpu-cluster;gpu-cluster. If no value is provided to this parameter then policy is applicable to all computes.
  - **AllowedModuleAuthors**: Type: Array
    - **Display Name**: [Preview]: Allowed module authors
    - **Description**: List of allowed module authors. Ex. authorname@contoso.com
    - **DefaultValue**: []
  - **Effect**: Type: String
    - **Display Name**: [Preview]: Effect
    - **Description**: Enable or disable the execution of the policy.
    - **Allowed Values**: [enforceSetting, disabled]
    - **DefaultValue**: enforceSetting

**Policy Rule**

- **If**: AnyOf:
  - **Field**: Microsoft.MachineLearningServices.Data/workspaces/computes/name
  - **Value**: length(parameters(computeNames))
- **Then**: Enforce Setting
  - **Details**: Setting name: allowedModuleAuthors, value: parameters(allowedModuleAuthors)

---

Open Source Used In SDWan 20.7.1 8882
Configure allowed registries for specified Azure Machine Learning
computes. This policy helps provide registries that are allowed in specified Azure Machine
Learning computes and can be assigned at the workspace. For more information,
visit https://aka.ms/amlpolicydoc.

Compute names where Azure ML jobs run.

Ensure only allowed container images in AKS. This policy ensures only allowed container images are running in an Azure Kubernetes Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies.

Allowed container images regex. Allowed container images allowed in Kubernetes cluster. E.g. Regex of azure container registry images is ^.+azurecr.io/.+$

Configure allowed Python packages for specified Azure Machine Learning
computes. This policy helps provide allowed Python packages in specified Azure Machine
Learning computes and can be assigned at the workspace. For more information,
visit https://aka.ms/amlpolicydoc.

Compute names where Azure ML jobs run, "description": "List of compute names where this policy should be applied. Ex. cpu-cluster;gpu-cluster. If no value is provided to this parameter then policy is applicable to all computes."


Do not allow privileged containers in AKS, "policyType": "BuiltIn", "mode": "Microsoft.ContainerService.Data", "description": "This policy does not allow privileged containers creation in an Azure Kubernetes Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies."

Manage certificates issued by an integrated CA, "policyType": "BuiltIn", "mode": "Microsoft.KeyVault.Data", "description": "This policy manages certificates are issued by a specified key vault integrated Certificate Authority."

Effect", "description": "Enable or disable the execution of the policy."

"allowedValues": ["enforceSetting", "disabled"], "defaultValue": "enforceSetting"

"policyRule": {"if": "anyOf": [{"field": "Microsoft.MachineLearningServices.Data/workspaces/computes/name", "in": parameters(\"computeNames\")}]}, "then": {"effect": parameters(\"effect\")}

"details": {"setting": "allowedPythonPackageChannels", "value": parameters(\"allowedPythonPackageChannels\")}

Do not allow privileged containers in AKS, "policyType": "BuiltIn", "mode": "Microsoft.ContainerService.Data", "description": "This policy does not allow privileged containers creation in an Azure Kubernetes Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies."

Manage certificates issued by an integrated CA, "policyType": "BuiltIn", "mode": "Microsoft.KeyVault.Data", "description": "This policy manages certificates are issued by a specified key vault integrated Certificate Authority."

Certificate Authority., "metadata": {"version": "1.0.0-preview", "category": "Key Vault", "preview": true}, "parameters": {"allowedCAs": ["Array", "metadata": {"displayName": [Preview]

Effect", "description": "Enable or disable the execution of the policy.

"allowedValues": ["audit", "deny", "disabled"], "defaultValue": "audit"

"policyRule": {"if": "anyOf": [{"field": "Microsoft.KeyVault.Data/vaults/certificates/issuer.name", "notIn": parameters(\"allowedCAs\")}]}, "then": {"effect": parameters(\"effect\")}

Do not allow privileged containers in AKS, "policyType": "BuiltIn", "mode": "Microsoft.ContainerService.Data", "description": "This policy does not allow privileged containers creation in an Azure Kubernetes Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies."

Manage certificates issued by an integrated CA, "policyType": "BuiltIn", "mode": "Microsoft.KeyVault.Data", "description": "This policy manages certificates are issued by a specified key vault integrated Certificate Authority."

Certificate Authority., "metadata": {"version": "1.0.0-preview", "category": "Key Vault", "preview": true}, "parameters": {"allowedCAs": ["Array", "metadata": {"displayName": [Preview]

Effect", "description": "Enable or disable the execution of the policy.

"allowedValues": ["audit", "deny", "disabled"], "defaultValue": "audit"

"policyRule": {"if": "anyOf": [{"field": "Microsoft.KeyVault.Data/vaults/certificates/issuer.name", "notIn": parameters(\"allowedCAs\")}]}, "then": {"effect": parameters(\"effect\")}

Open Source Used in SDWan 20.7.1 8884
Do not allow privileged containers in Kubernetes cluster.

This policy does not allow privileged containers creation in a Kubernetes cluster.

For instructions on using this policy, visit https://aka.ms/kubepolicydoc.

Effect: Enable or disable the execution of the policy.

Namespace exclusions:

List of Kubernetes namespaces to exclude from policy evaluation. Providing a value for this parameter is optional.

Manage certificates issued by a non-integrated Certificate Authority. This policy manages certificates are issued by a specified non-integrated Certificate Authority.

CA:

The common name of the certificate authority.

web certificate:

The common name (CN) of the Certificate Authority (CA) provider. For example, for an issuer CN = Contoso, OU = ..., DC = ..., you can specify Contoso.

Ensure CPU and memory resource limits defined on containers in AKS.

This policy ensures CPU and memory resource limits are defined on containers in an Azure Kubernetes Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies.

Open Source Used In SDWan 20.7.1 8885
Enforce internal load balancers in AKS

Enforce unique ingress hostnames across namespaces in Kubernetes cluster

Manage allowed curve names for elliptic curve cryptography certificates

Open Source Used In SDWan 20.7.1 8886
Manage minimum key size for RSA certificates

description: This policy manages the minimum key size for RSA certificates.

Minimum RSA key size

description: The minimum key size for RSA certificates.

Ensure unique ingress hostnames across namespaces in AKS

description: This policy enforces unique ingress hostnames across namespaces in an Azure Kubernetes Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies.

Ensure container CPU and memory resource limits do not exceed the specified limits in Kubernetes cluster.

description: This policy ensures container CPU and memory resource limits are defined and do not exceed the specified limits in a Kubernetes cluster. For instructions on using this policy, visit https://aka.ms/kubepolicydoc.
Max allowed CPU units", "description": "The maximum CPU units allowed for a container. E.g. 200m. For more information, please refer https://aka.ms/k8s-policy-pod-limits"
},

"memoryLimit": {
  "type": "String",
  "metadata": {
    "displayName": "[Preview]: Max allowed memory bytes",
    "description": "The maximum memory bytes allowed for a container. E.g. 1Gi. For more information, please refer https://aka.ms/k8s-policy-pod-limits"
  },
  "effect": {
    "type": "String",
    "metadata": {
      "displayName": "[Preview]: Effect",
      "description": "Enable or disable the execution of the policy",
      "allowedValues": ["enforceOPAConstraint", "disabled"],
      "defaultValue": "enforceOPAConstraint"
    }
  },
  "excludeNamespaces": {
    "type": "Array",
    "metadata": {
      "displayName": "[Preview]: Namespace exclusions",
      "description": "List of Kubernetes namespaces to exclude from policy evaluation. Providing a value for this parameter is optional.
    }
  }
},

"policyRule": {
  "if": {
    "field": "type",
    "then": {
      "effect": "[parameters(''effect'')]
      
      "details": {
        "values": {
          "cpuLimit": "[parameters(''cpuLimit'')]
          
          "memoryLimit": "[parameters(''memoryLimit'')]
          
          "excludedNamespaces": "[parameters(''excludedNamespaces'')]
        }
      }
    }
  }
},

"id": "/providers/Microsoft.Authorization/policyDefinitions/e345eecc-fa47-480f-9e88-67dcc122b164",

"type": "Microsoft.Authorization/policyDefinitions",

"name": "f772fb64-8e40-40ad-87bc-7706e1949427",

"properties": {
  "displayName": "[Preview]: Manage certificates that are within a specified number of days of expiration",
  "policyType": "BuiltIn",
  "mode": "Microsoft.KeyVault.Data",
  "description": "This policy manages certificates that are within a specified number of days to their expiration date.
  
  Metadata: {
    "version": "1.0.0-preview",
    "category": "Key Vault",
    "preview": true
  }
  
  Parameters: {
    "daysToExpire": "[type: Integer, metadata: {"displayName": [Preview]: Days to expire, 
    "description": "The number of days for a certificate to expire."
    }
    ,
    "effect": "[type: String, metadata: {"displayName": [Preview]:
    "description": "Enable or disable the execution of the policy",
    "allowedValues": ["audit", "deny", "disabled"],
    "defaultValue": "audit"
    }
  }
  
  Policy Rule: {
    "if": {
      "field": "Microsoft.KeyVault.Data/vaults/certificates/attributes.expiresOn",
      "lessOrEquals": "[addDays(utcNow(), parameters(''daysToExpire''))]
      
      "then": {
        "effect": "[parameters(''effect'')]
      }
    }
  }
},

"id": "/providers/Microsoft.Authorization/policyDefinitions/f772fb64-8e40-40ad-87bc-7706e1949427",

"type": "Microsoft.Authorization/policyDefinitions",

"name": "e345eecc-fa47-480f-9e88-67dcc122b164",

"properties": {
  "displayName": "[Preview]: Ensure only allowed container images in Kubernetes cluster",
  "policyType": "BuiltIn",
  "mode": "Microsoft.Kubernetes.Data",
  "description": "This policy ensures only allowed container images are running in a Kubernetes cluster.

  For instructions on using this policy, visit https://aka.ms/kubepolicydoc.

  Metadata: {
    "version": "3.0.0-preview",
    "category": "Kubernetes",
    "preview": true
  }
  
  Parameters: {
    "allowedContainerImagesRegex": "[type: String, metadata: {"displayName": [Preview]: Allowed container images regex, 
    "description": "The RegEx rule used to match allowed container images in a Kubernetes cluster. For example, to allow any Azure Container Registry image by matching partial path: ^azurecr.io/+.+$]
    }
    ,
    "effect": "[type: String, metadata: {"displayName": [Preview]:
    "description": "Enable or disable the execution of the policy",
    "allowedValues": ["enforceOPAConstraint", "disabled"],
    "defaultValue": "enforceOPAConstraint"
    }
  }
  
  Policy Rule: {
    "if": {
      "field": "Microsoft.Kubernetes/connectedClusters/containers/attributes.image",
      "matches": "[parameters(''allowedContainerImagesRegex'')]
      
      "then": {
        "effect": "[parameters(''effect'')]
      }
    }
  }
},

"id": "/providers/Microsoft.Authorization/policyDefinitions/1f772fb64-8e40-40ad-87bc-7706e1949427",

"type": "Microsoft.Authorization/policyDefinitions",

"name": "1f772fb64-8e40-40ad-87bc-7706e1949427",

"properties": {
  "displayName": "[Preview]: Allowed container images in Kubernetes cluster",
  "policyType": "BuiltIn",
  "mode": "Microsoft.Kubernetes.Data",
  "description": "This policy ensures only allowed container images are running in a Kubernetes cluster.

  For instructions on using this policy, visit https://aka.ms/kubepolicydoc.

  Metadata: {
    "version": "3.0.0-preview",
    "category": "Kubernetes",
    "preview": true
  }
  
  Parameters: {
    "allowedContainerImagesRegex": "[type: String, metadata: {"displayName": [Preview]: Allowed container images regex, 
    "description": "The RegEx rule used to match allowed container images in a Kubernetes cluster. For example, to allow any Azure Container Registry image by matching partial path: ^azurecr.io/+.+$]
    }
    ,
    "effect": "[type: String, metadata: {"displayName": [Preview]:
    "description": "Enable or disable the execution of the policy",
    "allowedValues": ["enforceOPAConstraint", "disabled"],
    "defaultValue": "enforceOPAConstraint"
    }
  }
  
  Policy Rule: {
    "if": {
      "field": "Microsoft.Kubernetes/connectedClusters/containers/attributes.image",
      "matches": "[parameters(''allowedContainerImagesRegex'')]
      
      "then": {
        "effect": "[parameters(''effect'')]
      }
    }
  }
},

"id": "/providers/Microsoft.Authorization/policyDefinitions/1f772fb64-8e40-40ad-87bc-7706e1949427",

"type": "Microsoft.Authorization/policyDefinitions",

"name": "1f772fb64-8e40-40ad-87bc-7706e1949427",

"properties": {
  "displayName": "[Preview]: Allowed container images in Kubernetes cluster",
  "policyType": "BuiltIn",
  "mode": "Microsoft.Kubernetes.Data",
  "description": "This policy ensures only allowed container images are running in a Kubernetes cluster.

  For instructions on using this policy, visit https://aka.ms/kubepolicydoc.

  Metadata: {
    "version": "3.0.0-preview",
    "category": "Kubernetes",
    "preview": true
  }
  
  Parameters: {
    "allowedContainerImagesRegex": "[type: String, metadata: {"displayName": [Preview]: Allowed container images regex, 
    "description": "The RegEx rule used to match allowed container images in a Kubernetes cluster. For example, to allow any Azure Container Registry image by matching partial path: ^azurecr.io/+.+$]
    }
    ,
    "effect": "[type: String, metadata: {"displayName": [Preview]:
    "description": "Enable or disable the execution of the policy",
    "allowedValues": ["enforceOPAConstraint", "disabled"],
    "defaultValue": "enforceOPAConstraint"
    }
  }
  
  Policy Rule: {
    "if": {
      "field": "Microsoft.Kubernetes/connectedClusters/containers/attributes.image",
      "matches": "[parameters(''allowedContainerImagesRegex'')]
      
      "then": {
        "effect": "[parameters(''effect'')]
      }
    }
  }
},

"id": "/providers/Microsoft.Authorization/policyDefinitions/1f772fb64-8e40-40ad-87bc-7706e1949427",

"type": "Microsoft.Authorization/policyDefinitions",

"name": "1f772fb64-8e40-40ad-87bc-7706e1949427",

"properties": {
  "displayName": "[Preview]: Allowed container images in Kubernetes cluster",
  "policyType": "BuiltIn",
  "mode": "Microsoft.Kubernetes.Data",
  "description": "This policy ensures only allowed container images are running in a Kubernetes cluster.

  For instructions on using this policy, visit https://aka.ms/kubepolicydoc.

  Metadata: {
    "version": "3.0.0-preview",
    "category": "Kubernetes",
    "preview": true
  }
  
  Parameters: {
    "allowedContainerImagesRegex": "[type: String, metadata: {"displayName": [Preview]: Allowed container images regex, 
    "description": "The RegEx rule used to match allowed container images in a Kubernetes cluster. For example, to allow any Azure Container Registry image by matching partial path: ^azurecr.io/+.+$]
    }
    ,
    "effect": "[type: String, metadata: {"displayName": [Preview]:
    "description": "Enable or disable the execution of the policy",
    "allowedValues": ["enforceOPAConstraint", "disabled"],
    "defaultValue": "enforceOPAConstraint"
    }
  }
  
  Policy Rule: {
    "if": {
      "field": "Microsoft.Kubernetes/connectedClusters/containers/attributes.image",
      "matches": "[parameters(''allowedContainerImagesRegex'')]
      
      "then": {
        "effect": "[parameters(''effect'')]
      }
    }
  }
}
Namespace exclusions, description: List of Kubernetes namespaces to exclude from policy evaluation. Providing a value for this parameter is optional.

"properties":
{"policyType":"Custom","mode":"Indexed","description":"Don't create a VM anywhere","metadata":
{"createdBy":"123743cc-88ef-49ee-920e-13958fe5697d","createdOn":"2020-06-05T02:26:18.6776083","updatedBy":null,"updatedOn":null},
"policyRule":
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["source":"action","equals":"Microsoft.Compute/virtualMachines/write"],
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{"effect":"deny"}},"id":"/subscriptions/00000000-0000-0000-0000-000000000000/providers/Microsoft.Authorization/policyDefinitions/pypolicyea4a13f0","type":"Microsoft.Authorization/policyDefinitions","name":"pypolicyea4a13f0"},

"allowedValues":
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{"effect":deny"},
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The list of locations that can be specified when deploying resources.

The priority slot for the new rule.

A description of Security rule port numbers must match these numbers.

A description of Subscriptions excluded from policy due to security exceptions.

Protocol for the rule.

An IP Address, a Service Tag, an App Security Group.

A description of Rule is not deployed if this tag exists on the NSG.

A description of Cleanuptool-Deny-103.

A description of Cleanuptool-Deny-103.

A description of Cleanuptool-Deny-103.
lts","secured-ocportal-on-ubuntu-14-04-lts","secured-open-cart-on-centos","secured-orangehrm-on-centos","secured-osclass-on-centos","secured-owncloud-on-centos","secured-oxidESHop-on-ubuntu-14-04-lts","secured-passenger-nginx-on-centos","secured-piwigo-gallery-on-centos","secured-plone-on-centos","secured-plone-on-ubuntu-14-04-lts","secured-prestashop-on-centos","secured-prestashop-on-ubuntu-14-04-lts","secured-railo-on-ubuntu-14-04-lts","secured-redis-on-centos","secured-redis-on-ubuntu-1404","secured-redmine-on-centos","secured-redmine-on-ubuntu-14-04-lts","secured-redmineagile-on-ubuntu-14-04-lts","secured-report-server-on-centos","secured-reportserver-on-ubuntu-14-04-lts","secured-resource-space-on-centos","secured-resourcespace-on-ubuntu-14-04-lts","secured-roundcube-on-centos","secured-roundcube-on-ubuntu-14-04-lts","secured-ruby-on-centos","secured-ruby-on-ubuntu-14-04-lts","secured-seopanel-on-centos","secured-seopanel-on-ubuntu-14-04-lts","secured-silverstripe-on-centos","secured-simple-invoice-on-centos","secured-simple-machines-on-centos","secured-simple-machines-on-ubuntu-14-04-lts","secured-simpleinvoice-on-ubuntu-14-04-lts","secured-subversion-on-centos","secured-suitexchange-on-centos","secured-suitecrm-on-ubuntu-14-04-lts","secured-test-link-on-centos","secured-testlink-on-ubuntu-14-04-lts","secured-thinkup-on-centos","secured-thinkup-on-ubuntu-14-04-lts","secured-tikiwikims-on-centos","secured-tikiwikims-on-ubuntu-14-04-lts","secured-tiny-tiny-rss-on-centos","secured-tinytynyrs-on-ubuntu-14-04-lts","secured-tomcat-on-centos","secured-trac-on-centos","secured-trac-on-ubuntu-14-04-lts","secured-typo3-on-centos","secured-typo3-on-ubuntu-14-04-lts","secured-varnish-on-centos","secured-varnish-on-ubuntu-1404","secured-wildfly-on-centos","secured-wildfly-on-ubuntu-14-04-lts","secured-wordpress-on-centos-7-3","secured-wordpress-on-ubuntu-16-04-lts","secured-x-cart-on-ubuntu-14-04-lts","secured-xoops-on-centos","secured-xoops-on-ubuntu-14-04-lts","secured-zurmo-on-centos","secured-zurmo-on-ubuntu-14-04-lts","suse15","ubuntu-14-04-lts","ubuntu-16-04-lts","ubuntu-17-04-high-performance-hardened-tcp-bbr","ubuntu-18-04","ubuntu-18-04-lts"]],"allOf:[["field":"Microsoft.Compute/imagePublisher","equals":"cohesity"],["field":"Microsoft.Compute/imageOffer","in:["cohesity-clouddtool"]],"allOf:[["field":"Microsoft.Compute/imagePublisher","equals":"cohesive"],["field":"Microsoft.Compute/imageOffer","in:["vns3_4x_network_security"]],"allOf:[["field":"Microsoft.Compute/imagePublisher","equals":"confluent"],["field":"Microsoft.Compute/imageOffer","in:["confluentplatform"]],"allOf:[["field":"Microsoft.Compute/imagePublisher","equals":"consensys"],["field":"Microsoft.Compute/imageOffer","in:["coreos"]],"allOf:[["field":"Microsoft.Compute/imagePublisher","equals":"cryptzone"],["field":"Microsoft.Compute/imageOffer","in:["appgate-appliance-3_2"]],"allOf:[["field":"Microsoft.Compute/imagePublisher","equals":"cyberneticaas"],["field":"Microsoft.Compute/imageOffer","in:["uxp-securityserver-connector","uxp-securityserver_vm"]],"allOf:[["field":"Microsoft.Compute/imagePublisher","equals":"cyxtera"],["field":"Microsoft.Compute/imageOffer","in:["appgatedpvm"]],"allOf:[["field":"Microsoft.Compute/imagePublisher","equals":"dataart"],["field":"Microsoft.Compute/imageOffer","in:["devicehive"]],"allOf:[["field":"Microsoft.Compute/imagePublisher","equals":"databricks"],["field":"Microsoft.Compute/imageOffer","in:["spfqogzeculbhdh"]],"allOf:[["field":"Microsoft.Compute/imagePublisher","equals":"cryptzone"],["field":"Microsoft.Compute/imageOffer","in:["datalayer-notebook"]],"allOf:[["field":"Microsoft.Compute/imagePublisher","equals":"datasunrise"],["field":"Microsoft.Compute/imageOffer","in:["databay","databay-enterprise","databay-enterprise-non-production-use-only"]],"allOf:[["field":"Microsoft.Compute/imagePublisher","equals":"datasunrise"],["field":"Microsoft.Com
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- esdenera-firewall
- evostream-inc
- ems-for-template
- exasol-analytics-database-byol
- falconstorsoftware
- microsoft
- ethereum-studio
- ems-test
- f5-big-ip-adc
- f5-big-ip-advanced-waf
- f5-big-ip-best
- f5-big-ip-better
- f5-big-ip-ssl
- f5-big-ip-good
- f5-big-ip-per-app-ve
- f5-big-ssl
- f5-web-application-firewall
- filecatalyst
- filedatalyst-direct-per-hr-billing
- filedatalyst-direct-server
- firehost
- firehost_armor
- firehost_armor_ubuntu
- fss-v9
- f5-networks
- flexify-io
- single-vm
- fss-v9
- f5-big-ip-adc
- f5-big-ip-advanced-waf
- f5-big-ip-best
- f5-big-ip-better
- f5-big-ip-ssl
- f5-big-ip-good
- f5-big-ip-per-app-ve
- f5-big-ssl
- f5-web-application-firewall
- flashgrid-inc
- flashgrid-racnode
- forscene
- forscene-edgeserver
- fortycloud
- fortpoint-llc
- fortpoint-ngfw
- fortpoint-orti
- fortpoint-fortimanager
- fortpoint-fortigate-vm-v5
- fortpoint-fortinet
- fortpoint-fortigate-vm-v5
- fujitsu_fast
- fep10-rh7-test
- fep-test
- gemalto-safenet
- safenet-keysecure-k170v
- safenet-protectv
- safenet-protectv-manager
- gigamon-fm-5_3_01
- gigamon-fm-5_3_01_hourly
- gigamon-fm-5_4_00
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- gitlab
- githubenterprise-test-publishing
- gitubenterprise-test-publishing
- great-software-laboratory-private-limited
- gridgain
- gridgain-vm
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...
mpute/imageOffer","in":["mariadb-server"]}],
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Open Source Used In SDWan 20.7.1 8944
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"createdOn":null,
"displayName":null,
"mode":null,
"description":null,
"policyType":null,
"metadata":null,
"id":null,
"type":null,
"name":null,
"createdBy":null,
"createdOn":null,
"displayName":null,
"mode":null,
"description":null,
"policyType":null,
"metadata":null,
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12T23:41:53.0207896Z, "updatedAt":null,"updatedOn":null}, "parameters": {"allowedLocations": {"type": "Array", "metadata": {"displayName": "Allowed locations"}, "description": "The list of locations that can be specified when deploying resources.", "strongType": "location" }, "resourcetagname": {"type": "String", "metadata": {"displayName": "Exclusion Tag Name"}, "description": "Rule is not deployed if this tag exists on the Virtual Machine" }, "resourcegrouptagname": {"type": "String", "metadata": {"displayName": "Exclusion Tag Name at the resource group level"}, "description": "Rule is not deployed if this tag exists on the Resource Group" }, "subscriptiontagname": {"type": "String", "metadata": {"displayName": "Exclusion Tag Name at the subscription level"}, "description": "Rule is not deployed if this tag exists on the Subscription" }}, "policyRule": {"if": [{"allof": [{"field": "location","in":"[parameters('allowedLocations')]]"}, {"field": [concat('tags[', parameters('resourcetagname'), ']')], "exists": "false"}, {"value": [resourceGroup().tags[parameters('resourcegrouptagname')]], "equals": ""}, {"value": [subscription().tags[parameters('resourcegrouptagname')]], "equals": ""}, {"field": "type","equals":"Microsoft.Compute/virtualMachineScaleSets"}, {"field": "Microsoft.Compute/virtualMachineScaleSets/virtualMachineProfile.osProfile.linuxConfiguration","exists": "True"}, {"field": "Microsoft.Compute/virtualMachineScaleSets/virtualMachineProfile.osProfile.linuxConfiguration.disablePasswordAuthentication", "equals": "false"}]}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88cb-b766155f2792/providers/Microsoft.Authorization/policyDefinitions/9135d7012c4033cb", "type": "Microsoft.Authorization/policyDefinitions", "name": "9135d7012c4033cb"}, "properties": {"displayName": "nrms-nsg-rule-105_1.3", "policyType": "Custom", "mode": "All", "metadata": {"createdBy": "1f75b9dd-4f1d-4e80-9521-321a8b15764", "createdOn": "2020-02-24T21:28:42.3856221Z", "updatedAt":null,"updatedOn":null}, "parameters": {"allowedLocations": {"type": "Array", "metadata": {"displayName": "Allowed locations"}, "description": "The list of locations that can be specified when deploying resources.", "strongType": "location" }, "ruleNo": {"type": "String", "metadata": {"displayName": "Priority"}, "description": "The priority slot for the new rule"}, "allowedValues": ["100", "101", "102", "103", "104", "105", "106", "107", "108", "109"], "info": {"type": "String"}, "metadata": {"displayName": "Description"}, "description": "A destinationPortRanges": [{"type": "Array", "metadata": {"displayName": "Port Number"}, "description": "Security rule port numbers must match these numbers"}], "subscriptionExclusions": [{"type": "Array", "metadata": {"displayName": "Subscriptions Excluded"}, "description": "Subscriptions excluded from policy due to security exceptions"}, {"defaultValue": []}], {"protocol": {"type": "String"}, "metadata": {"displayName": "protocol"}, "description": "Protocol for the rule"}, "allowedValues": ["*", "Tcp", "Udp"], "sourceType": {"type": "String"}, "metadata": {"displayName": "sourceType"}, {"description": "null"}, {"allowedValues": ["IP Addresses", "Service Tag", "App Security Group"], "sourceValue": {"type": "String"}, "metadata": {"displayName": "sourceValue"}, {"description": "null"}, {"allowedValues": ["Allow", "Deny"], "direction": {"type": "String"}, "metadata": {"displayName": "direction"}, {"description": "null"}, {"allowedValues": ["Inbound", "Outbound"], "tagName": {"type": "String"}, "metadata": {"displayName": "Tag"}}}"}}
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NSG"},"allowedValues":["NA","NRMSException","SkipNRMSCorp","nrmsskipcorpnetsaw","SkipNRMSSAW","
SkipNRMSDatabricks","SkipNRMSRDPSSH","SkipNRMSMgmt","SkipNRMSHigh","SkipNRMSVNet","SkipNR
MSLoadBal","SkipNRMSDB","SkipNRMSMedium"],"defaultValue":"NA"}},"policyRule":{"if":{"allOf":[{"field"
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ions'')]"},{"field":"[concat(''tags['',
parameters(''tagName''),
'']'')]","exists":"false"},{"field":"tags[''SkipNRMSAll'']","exists":"false"},{"value":"[subscription().subscriptionId]",
"notIn":"[parameters(''subscriptionExclusions'')]"}]},"then":{"effect":"deployIfNotExists","details":{"type":"Micros
efinitions/4d97b98b-1d4f-4787-a291c67834d212e7"],"existenceCondition":{"anyOf":[{"allOf":[{"field":"fullName","equals":"[concat(field(''name''),''/'','
'NRMS-Rule-'',
parameters(''ruleNo''))]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/priority","equals":"[pa
rameters(''ruleno'')]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/sourceAddressPrefix","eq
uals":"[parameters(''sourceValue'')]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/access","e
quals":"[parameters(''actionValue'')]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/direction
","equals":"[parameters(''direction'')]"}]},{"allOf":[{"field":"fullName","contains":"Cleanuptool-Deny103"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/priority","equals":"103"},{"field":"Micro
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plate":{"$schema":"https://schema.management.azure.com/schemas/2015-0101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"fullName":{"type":"string"},"ruleNo":{"
type":"String"},"destinationPortRanges":{"type":"Array"},"protocol":{"type":"String"},"sourceType":{"type":"Strin
g"},"sourceValue":{"type":"String"},"actionValue":{"type":"String"},"direction":{"type":"String"},"info":{"type":"
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ues","count":"[length(variables(''SourceArr''))]","input":{"id":"[if(equals(parameters(''sourceType''),''App
Security Group''),if(contains(variables(''SourceArr'')[copyindex(''values'')],''subscriptions''),
variables(''SourceArr'')[copyindex(''values'')],resourceId(''Microsoft.Network/applicationSecurityGroups'',
variables(''SourceArr'')[copyindex(''values'')])),
'''')]"}}]}},"resources":[{"type":"Microsoft.Network/networkSecurityGroups/securityRules","name":"[concat(param
eters(''fullName''),''/'',''NRMS-Rule-'',
parameters(''ruleNo''))]","apiVersion":"2017-1001","scale":null,"properties":{"protocol":"[parameters(''protocol'')]","description":"[parameters(''info'')]","sourcePort
Range":"*","sourceAddressPrefix":"[if(equals(parameters(''sourceType''),''Service
Tag''),parameters(''sourceValue''),json(''null''))]","sourceAddressPrefixes":"[if(equals(parameters(''sourceType''),''IP
Addresses''),variables(''SourceArr''),json(''null''))]","sourceApplicationSecurityGroups":"[if(equals(parameters(''sour
ceType''),''App
Security Group''),variables(''appSecGroups'').values,json(''null''))]","destinationPortRanges":"[if
(equals(1,length(parameters(''destinationPortRanges''))), json(''null''),
parameters(''destinationPortRanges''))]","destinationPortRange":"[if
(equals(1,length(parameters(''destinationPortRanges''))),
parameters(''destinationPortRanges'')[0],
json(''null''))]","destinationAddressPrefix":"*","destinationApplicationSecurityGroups":[],"access":"[parameters(''act
ionValue'')]","priority":"[parameters(''ruleNo'')]","direction":"[parameters(''direction'')]"}}]},"parameters":{"fullNa
me":{"value":"[field(''fullName'')]"},"ruleNo":{"value":"[parameters(''ruleNo'')]"},"destinationPortRanges":{"value"

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:"[parameters(''destinationPortRanges'')]"},"protocol":{"value":"[parameters(''protocol'')]"},"sourceType":{"value":"
[parameters(''sourceType'')]"},"sourceValue":{"value":"[parameters(''sourceValue'')]"},"actionValue":{"value":"[par
ameters(''actionValue'')]"},"direction":{"value":"[parameters(''direction'')]"},"info":{"value":"[parameters(''info'')]"}
}}}}}}},"id":"/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ceb766155f2792/providers/Microsoft.Authorization/policyDefinitions/9aca16db50fb914c","type":"Microsoft.Authoriz
ation/policyDefinitions","name":"9aca16db50fb914c"},{"properties":{"displayName":"nrms-nsg-rule106_1.3","policyType":"Custom","mode":"All","metadata":{"createdBy":"1f75b9dd-4f1d-4e80-9521321a8b1f5764","createdOn":"2020-0224T21:28:49.8100037Z","updatedBy":null,"updatedOn":null},"parameters":{"allowedLocations":{"type":"Array","
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locations","description":"The list of locations that can be specified when
deploying
resources.","strongType":"location"}},"ruleNo":{"type":"String","metadata":{"displayName":"Priority","description
":"The
priority slot for the new
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Excluded","description":"Subscriptions excluded from policy due to security
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rotocol
for the
rule"},"allowedValues":["*","Tcp","Udp"]},"sourceType":{"type":"String","metadata":{"displayName":"sourceTyp
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Addresses","Service Tag","App Security
Group"]},"sourceValue":{"type":"String","metadata":{"displayName":"sourceValue","description":null}},"actionV
alue":{"type":"String","metadata":{"displayName":"actionValue","description":null},"allowedValues":["Allow","D
eny"]},"direction":{"type":"String","metadata":{"displayName":"direction","description":null},"allowedValues":["I
nbound","Outbound"]},"tagname":{"type":"String","metadata":{"displayName":"Tag
Name","description":"Rule is not deployed if this tag exists on the
NSG"},"defaultValue":"NA"}},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Network/networkS
ecurityGroups"},{"field":"location","in":"[parameters(''allowedLocations'')]"},{"field":"[concat(''tags['',
parameters(''tagName''),
'']'')]","exists":"false"},{"value":"[resourceGroup().tags[parameters(''tagname'')]]","equals":""},{"field":"tags[''Skip
NRMSAll'']","exists":"false"},{"value":"[resourceGroup().tags[''SkipNRMSAll'']]","equals":""},{"field":"tags[''auto
pilotcluster'']","exists":"false"},{"value":"[resourceGroup().tags[''autopilotcluster'']]","equals":""},{"field":"tags[''aut
opilotenvironment'']","exists":"false"},{"value":"[resourceGroup().tags[''autopilotenvironment'']]","equals":""},{"val
ue":"[subscription().subscriptionId]","notIn":"[parameters(''subscriptionExclusions'')]"}]},"then":{"effect":"deployIf
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iders/Microsoft.Authorization/roleDefinitions/4d97b98b-1d4f-4787-a291c67834d212e7"],"existenceCondition":{"anyOf":[{"allOf":[{"field":"fullName","equals":"[concat(field(''name''),''/'','
'NRMS-Rule-'',
parameters(''ruleNo''))]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/priority","equals":"[pa
rameters(''ruleno'')]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/access","equals":"[parame
meters(''direction'')]"}]},{"allOf":[{"field":"fullName","contains":"Cleanuptool-Deny-

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numbers"}, "subscriptionExclusions": {"type": "Array", "metadata": {"displayName": "Subscriptions Excluded"}, "defaultValue": []}, "protocol": {"type": "String", "metadata": {"displayName": "Protocol", "description": "Protocol for the rule"}, "allowedValues": ["*", "Tcp", "Udp"]}, "sourceType": {"type": "String", "metadata": {"displayName": "Source Type", "description": "Source type of the rule"}, "allowedValues": ["IP Addresses", "Service Tag", "App Security Group"]}, "sourceValue": {"type": "String", "metadata": {"displayName": "Source Value", "description": "Source value of the rule"}}}

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The list of locations that can be specified when deploying resources.

Tag Name

Rule is not deployed if this tag exists on the Virtual Machine)

policyRule:

if:

allOf:

[field]:

type:

equals:

Microsoft.Compute/virtualMachineScaleSets

[field]:

location:

in:

[parameters(allowedLocations)]

concat:

tags

parameters(tagname)

exists:

false

anyOf:

[field]:

Microsoft.Compute/VirtualMachineScaleSets/osProfile.windowsConfiguration

exists:

true

[field]:

Microsoft.Compute/imagePublisher

equals:

MicrosoftWindowsServer

not:

[field]:

Microsoft.Compute/VirtualMachineScaleSets/extensions

name:


existenceCondition:

allOf:

[field]:

Microsoft.Compute/virtualMachineScaleSets/extensions/types

equals:

GenevaMonitoring

[field]:

Microsoft.Compute/virtualMachineScaleSets/extensions/publisher

equals:

Microsoft.Azure.Geneva

[field]:

Microsoft.Compute/virtualMachineScaleSets/extensions/enableAutomaticUpgrade

equals:

true

roleDefinitionIds:

providers/microsoft.authorization/roleDefinitions/9980e02c-c2be-4d73-94e8-173b1dc7cf3c

deployment:

properties:

mode:

incremental

template:

$schema:

https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#

contentVersion:

1.0.0.0

parameters:

vmssName:

type:

string

location:

type:

string

resources:

-apiVersion:

2018-10-01

name:

concat(parameters(vmssName)


type:

Microsoft.Compute/virtualMachineScaleSets/extensions

location:

parameters(location)

properties:

publisher:

Microsoft.Azure.Geneva

type:

GenevaMonitoring

typeHandlerVersion:

2.0

autoUpgradeMinorVersion:

true

enableAutomaticUpgrade:

true

settings:

parameters:

vmssName:

type:

string

location:

type:

string

metafile:

displayName:

geneva monitoring extension and azeunpack autoupdate policy for iaas_1.0

policyType:

Custom

mode:

Indexed

metadata:

createdBy:

1f75b9dd-4f1d-4e80-9521-321a8b1f5764

createdOn:

2019-07-12T00:29:57.8179024Z

updatedBy:

null

updatedOn:

null

parameters:

allowedLocations:

type:

String

metadata:

displayName:

Allowed locations

description:

The list of locations that can be specified when deploying

resources.

strongType:

location

policyRule:

if:

allOf:

[field]:

type:

equals:

Microsoft.Compute/virtualMachines

[field]:

location

in:

[parameters(allowedLocations)]

anyOf:

[field]:

Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration

exists:

true

[field]:

Microsoft.Compute/imagePublisher

equals:

MicrosoftWindowsServer

not:

[field]:

Microsoft.Compute/extensions

name:


existenceCondition:

allOf:

[field]:

Microsoft.Compute/extensions/types

equals:

GenevaMonitoring

[field]:

Microsoft.Compute/extensions/publisher

equals:

Microsoft.Azure.Geneva

[field]:

Microsoft.Compute/extensions/enableAutomaticUpgrade

equals:

true

roleDefinitionIds:

providers/microsoft.authorization/roleDefinitions/9980e02c-c2be-4d73-94e8-173b1dc7cf3c

deployment:

properties:

mode:

incremental

template:

$schema:

https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#

contentVersion:

1.0.0.0

parameters:

vmName:

type:

string

location:

type:

string

resources:

-apiVersion:

2018-10-01

name:

concat(parameters(vmName)

103"], [{"field": "Microsoft.Network/networkSecurityGroups/securityRules/priority", "equals": "103"}], [{"field": "Microsoft.Network/networkSecurityGroups/securityRules/sourceAddressPrefix", "equals": "Any"}], [{"field": "Microsoft.Network/networkSecurityGroups/securityRules/access", "equals": "Deny"}], [{"field": "Microsoft.Network/networkSecurityGroups/securityRules/direction", "equals": "Inbound"}]}, "deployment": [{"properties": [{"mode": "incremental", "template": "{"$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"fieldName": {"type": "string", "field": "String"}, "destinationPortRanges": [{"type": "Array"}, {"protocol": {"type": "String"}, "sourceType": {"type": "String"}, "sourceValue": {"type": "String"}, "actionValue": {"type": "String"}, "direction": {"type": "String"}, "info": {"type": "String"} }}], "variables": [{"SourceArr": [split(parameters('sourceValue'), ',')]}, appSecGroups: {"copy": ["{"name": "values", "count": [length(variables('SourceArr'))]}"]}], "input": {"id": ["if(equals(parameters('sourceType'), 'App Security Group'), if(contains(variables('SourceArr'), [variables('SourceArr')[copyindex('values')]]), resourceID('Microsoft.Network/applicationSecurityGroups', [variables('SourceArr')[copyindex('values')]])], resourceID('Microsoft.Network/networkSecurityGroups', [variables('SourceArr')[copyindex('values')]])], }, resources: [{"type": "Microsoft.Network/networkSecurityGroups/securityRules", "name": [concat(parameters('fieldName'), '/', 'NRMS-Rule-', parameters('ruleNo'))], "apiVersion": "2017-10-01", "scale": null, "properties": {"protocol": [parameters('protocol')], "description": [parameters('info')], "sourcePortRange": '*', "sourceAddressPrefix": ["if(equals(parameters('sourceType'), 'Service Tag'), parameters('sourceValue'), json('null'))"], "sourceAddressPrefixes": ["if(equals(parameters('sourceType'), 'IP Addresses'), variables('SourceArr'), json('null'))"], "sourceApplicationSecurityGroups": [if(equals(parameters('sourceType'), 'App Security Group'), variables('appSecGroups').values, json('null'))], "destinationPortRanges": [if(equals(1, length(parameters('destinationPortRanges'))), json('null'), parameters('destinationPortRanges'))], "destinationPortRange": [if(equals(1, length(parameters('destinationPortRanges'))), json('null'), parameters('destinationPortRanges'))], "destinationAddressPrefix": "*", "destinationApplicationSecurityGroups": [], "access": [parameters('actionValue')], "priority": [parameters('ruleNo')], "direction": [parameters('direction')]], "parameters": [{"fieldName": {"value": [field('fieldName')]}, "ruleNo": {"value": [parameters('ruleNo')]}, "destinationPortRanges": ["value": [parameters('destinationPortRanges')]], "protocol": ["value": [parameters('protocol')]], "sourceType": ["value": [parameters('sourceType')]], "sourceValue": ["value": [parameters('sourceValue')]], "actionValue": ["value": [parameters('actionValue')]], "direction": ["value": [parameters('direction')]], "info": ["value": [parameters('info')]]}], id: ['/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b766615f2792/providers/Microsoft.Authorization/policyDefinitions/b4482f205f6bb1c1', "Microsoft.Authorization/"}]

monitoring extension and azsecpack autoupdate policy for iaaS_1.1, "policyType": "Custom", "mode": "Indexed", "metadata": {"createdBy": "1f75b9dd-4f1d-4e80-9521-321a8b1f5764", "createdOn": "2019-08-13T21:33:07.0355992Z", "updatedBy": null, "updatedAt": "null"}, "parameters": {"allowedLocations": ["type": "Array", "metadata": {"displayName": "Allowed locations", "description": "The list of locations that can be specified when deploying resources.", "strongType": "location"}], "tagName": {"type": "String", "metadata": {"displayName": "Exclusion Tag Name", "description": "Rule is not deployed if this tag exists on the Virtual Machine"}}, "policyRule": {"if": ["allOf": ["field": "type", "equals": "Microsoft.Compute/virtualMachines"], {"field": "location", "in": [parameters('allowedLocations')], {"field": [concat('tags', parameters('tagName'))], "exists": "false", "anyOf": ["field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration"]}]]},"id": "b4482f205f6bb1c1", "properties": {"displayName": "geneva"}
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0814-4847-88ce-b76615f2792/providers/Microsoft.Authorization/policyDefinitions/b9c65c79770e8c51","type":"Microsoft.Authorization/policyDefinitions","name":"b9c65c79770e8c51"],["properties":{"displayName":"nrms-nsg-rule-104_1.3","policyType":"Custom","mode":"All","metadata":{"createdBy":"1f75b9dd-4f1d-4e80-9521-32188b1f5764","createdOn":"2020-02-24T21:28:20.3270264Z","updatedBy":null,"updatedOn":null},"parameters":{"allowedLocations":{"type":"Array","metadata":{"displayName":"Allowed locations","description":"The list of locations that can be specified when deploying resources."},"strongType":"location"},"ruleNo":{"type":"String","metadata":{"displayName":"Priority","description":"The priority slot for the new rule"},"allowedValues":["100","101","102","103","104","105","106","107","108","109"]},"info":{"type":"String","metadata":{"displayName":"Description","description":"A description."},"defaultValue":null},"destinationPortRanges":{"type":"Array","metadata":{"displayName":"Port Number","description":"Security rule port numbers must match these numbers"},"subscriptionExclusions":{"type":"Array","metadata":{"displayName":"Subscriptions Excluded","description":"Subscriptions excluded from policy due to security exceptions"},"defaultValue":null},"protocol":{"type":"String","metadata":{"displayName":"protocol","description":"Protocol for the rule"},"allowedValues":["*","Tcp","Udp"]},"sourceType":{"type":"String","metadata":{"displayName":"sourceType","description":null},"allowedValues":["IP Addresses","Service Tag","App Security Group"],"sourceValue":{"type":"String","metadata":{"displayName":"sourceValue","description":null}}},"actionValue":{"type":"String","metadata":{"displayName":"actionValue","description":null},"allowedValues":["Allow","Deny"]},"direction":{"type":"String","metadata":{"displayName":"direction","description":null},"allowedValues":["Inbound","Outbound"]},"tagname":{"type":"String","metadata":{"displayName":"Tag Name","description":"Rule is not deployed if this tag exists on the NSG"},"defaultValue":"NA"},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Network/networkSecurityGroups"},"location","in":false,"parameters":{"allowedLocations"}]}},"then":{"effect":"deployIfNotExist","details":{"type":"Microsoft.Network/networkSecurityGroups/securityRules","roleDefinitionIds":["/providers/Microsoft.Authorization/roleDefinitions/4d97b98b-1d4f-4787-a291-c67834d212e7"],"existenceCondition":[]}}}}}}}

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yGroups/securityRules/direction","equals":"Inbound"]]]}, "deployment": {"properties": {"mode": "incremental", "template": ":\$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"fullName": {"type": "string"}, "ruleNo": {"type": "string"}, "sourceAddressPrefix": {"type": "string"}, "sourceAddressPrefixes": {"type": "string"}, "sourceApplicationSecurityGroups": {"type": "string"}, "destinationPortRanges": {"type": "string"}, "actions": {"type": "string"}, "access": {"type": "string"}, "priority": {"type": "string"}, "validation": {"type": "string"}, "mode": {"type": "string"}, "template": {"type": "string"}, "variables": {"type": "string"}, "info": {"type": "string"}}}, "variables": {"SourceArr": [split(parameters('sourceValue'), ',', '')], "appSecGroups": ["copy": ["name": "values", "count": [length(variables('SourceArr'))]]}, "inputs": {"id": ["ifequals(parameters('sourceType'),"App Security Group"),ifcontains(variables('SourceArr'),"subscriptions",variables('SourceArr'),"Microsoft.Network/applicationSecurityGroups"),variables('SourceArr')," NRMS-Rule-"], parameters('ruleNo'))], "apiVersion": "2017-10-01", "scale": null, "properties": {"protocol": ["parameters('protocol')"], "description": ["parameters('info')"], "sourcePortRange": "*", "sourceAddressPrefix": ["ifequals(parameters('sourceType'),"Service Tag"),parameters('sourceValue'),"null")], "sourceAddressPrefixes": ["ifequals(parameters('sourceType'),"IP Addresses"),variables('SourceArr'),"null")], "sourceApplicationSecurityGroups": ["ifequals(parameters('sourceType'),"App Security Group"),variables('appSecGroups').values, json('null'))], "destinationPortRanges": ["if (equals(1,length(parameters('destinationPortRanges'))), json('null')), parameters('destinationPortRanges'))], "destinationPortRange": ["if (equals(1,length(parameters('destinationPortRanges')))), parameters('destinationPortRanges'))], "access": ["parameters('access')"], "priority": ["parameters('priority')"], "validation": ["parameters('validation')"], "mode": ["parameters('mode')"], "template": ["parameters('template')"], "variables": ["parameters('variables')", "info": ["parameters('info')"]}], "id": ["providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyDefinitions/bac0fb65020410a4"], "type": "Microsoft.Authorization/policyDefinitions", "name": "bac0fb65020410a4", "properties": {"displayName": "audit ssh auth on existing vms_1.3", "policyType": "Custom", "mode": "All", "description": "This policy audits whether any Linux VMs use password-only authentication for SSH on existing resources.", "metadata": {"createdBy": "1f75b9dd-4f1d-4e80-9521-321aaa8b1f764", "createdOn": "2020-02-25T22:01:38.4305071Z", "updatedBy": null, "updatedOn": null}, "parameters": {"allowedLocations": ["type": "Array", "metadata": {"displayName": "Allowed locations", "description": "The list of locations that can be specified when deploying resources.", "strongType": "location"]}, "resourcetagname": {"type": "String", "metadata": {"displayName": "Exclusion Tag Name", "description": "Rule is not deployed if this tag exists on the Virtual Machine"}, "resourcegrouptagname": {"type": "String", "metadata": {"displayName": "Exclusion Tag Name at the resource group level", "description": "Rule is not deployed if this tag exists on the Resource Group"}}, "policyRule": {"if": ["allof": ["field": "location", "in": ["parameters('allowedLocations')"]], "field": ["concat('tags', parameters('resourcetagname'))"], "then": ["parameters('resourcetagname')"]]}}}...
Open Source Used In SDWan

20.7.1  8997
server"
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Open Source Used In SDWan

---

Microsoft.ContainerService/managedClusters

- networkProfile.networkPlugin
- location
- parameters(allowedLocations)

---

Microsoft.Authorization/policyDefinitions

- displayName
- policyType
- mode
- metadata
- parameters
- policyRule

---

Microsoft.Management/managementgroups

- providers/Microsoft.Authorization/policyDefinitions

---

nrms-batch-require-user

---

nrms-nsg-rule

---

Open Source Used In SDWan

---

Microsoft.ContainerService/managedClusters

- networkProfile.networkPlugin
- location
- parameters(allowedLocations)

---

Microsoft.Authorization/policyDefinitions

- displayName
- policyType
- mode
- metadata
- parameters
- policyRule

---

Microsoft.Management/managementgroups

- providers/Microsoft.Authorization/policyDefinitions

---

nrms-batch-require-user

---

nrms-nsg-rule
This policy audits whether any Linux VMSSs use password-only authentication for SSH on existing resources.

If "allowedLocations" is not specified, it is considered as All.

If "resourceTagname" is provided but "resourcegrouptagname" is not, it is considered as All.

If "resourcegrouptagname" is not specified, it is considered as All.

The list of locations that can be specified when deploying resources is:

- Allowed locations
- Exclusion Tag Name
- Exclusion Tag Name at the resource group level

This policy audits whether any Linux VMs use password-only authentication for SSH on new resources.

If "allowedLocations" is not specified, it is considered as All.

If "resourceTagname" is provided but "resourcegrouptagname" is not, it is considered as All.

If "resourcegrouptagname" is not specified, it is considered as All.

The list of locations that can be specified when deploying resources is:

- Allowed locations
- Exclusion Tag Name
- Exclusion Tag Name at the resource group level

This policy audits whether any Linux VMs use password-only authentication for SSH on new resources.
b766155f2792/providers/Microsoft.Authorization/policyDefinitions/dac4e4f8ad529fe5","type": "Microsoft.Authorization/policyDefinitions","name": "dac4e4f8ad529fe5"}, {"properties": {"displayName": "nrms-nsg-rule-109_1.3", "policyType": "Custom", "mode": "All", "metadata": {"createdBy": "1f75b9dd-4f1d-4e80-9521-3218b1f764", "createdOn": "2020-02-24T21:28:52.5486159Z", "updatedBy": null, "updatedOn": null}, "parameters": {"allowedLocations": ["type": "Array", "meta data": {"displayName": "Allowed locations", "description": "The list of locations that can be specified when deploying resources.", "strongType": "location" }], "ruleNo": ["type": "String", "metadata": {"displayName": "Priority", "description": "The priority slot for the new rule"}], "allowedValues": ["100", "101", "102", "103", "104", "105", "106", "107", "108", "109"], "info": ["type": "String", "metadata": {"displayName": "Description", "description": "A description of the new rule"}], "defaultValue": "", "destinationPortRanges": ["type": "Array", "metadata": {"displayName": "Port Number", "description": "Security rule port numbers must match these numbers"}], "subscriptionExclusions": ["type": "Array", "metadata": {"displayName": "Subscriptions Excluded", "description": "Subscriptions excluded from policy due to security exceptions"}], "defaultValue": "", "protocol": ["type": "String", "metadata": {"displayName": "protocol", "description": "Protocol for the rule"}], "allowedValues": ["TCP", "UDP"], "sourceType": ["type": "String", "metadata": {"displayName": "sourceType", "description": "The type of the source"}], "sourceValue": ["type": "String", "metadata": {"displayName": "sourceValue", "description": "The specific source"}], "actionValue": ["type": "String", "metadata": {"displayName": "actionValue", "description": "Action taken on the rule"}], "direction": ["type": "String", "metadata": {"displayName": "direction", "description": "Direction of the rule"}], "tagname": ["type": "String", "metadata": {"displayName": "Tag Name", "description": "Rule is not deployed if this tag exists on the NSG"}], "defaultValue": "NA"}, "policyRule": {"if": ["allOf": ["field": "type", "equals": "Microsoft.Network/networkSecurityGroups", "field": "location", "in": ["parameters[allowedLocations]"]], "field": ["concat(tags["parameters[tagName]"], "]")], "exists": "false", "value": ["resourceGroup().tags[parameters[tagName]]"], "equals": "", "field": ["tags["SkipNRMSAll"]", "exists": "false", "value": ["resourceGroup().tags["SkipNRMSAll"]"], "equals": "", "field": ["tags["autopilotcluster"], "exists": "false", "value": ["resourceGroup().tags["autopilotcluster"]"], "equals": "", "field": ["tags["autopilotenvironment"], "exists": "false", "value": ["resourceGroup().tags["autopilotenvironment"]"], "equals": "", "value": "subscription().subscriptionId", "notIn": ["parameters[subscriptionExclusions]"], "then": ["effect": "deployIfNotExists", "details": ["type": "Microsoft.Network/networkSecurityGroups/securityRules", "roleDefinitionIds": ["/providers/Microsoft.Authorization/roleDefinitions/4d97b98b-1d4f-4787-a291-c67834d212e7"]], "existenceCondition": ["anyOf": ["allOf": ["field": "full Name", "equals": ["concat(field[name]), "]", "NRMS-Rule-", parameters[ruleNo]]], "field": ["Microsoft.Network/networkSecurityGroups/securityRules/priority", "equals": ["parameters[ruleNo]"]], "field": ["Microsoft.Network/networkSecurityGroups/security Rules/access", "equals": ["parameters[actionValue]"], "field": ["Microsoft.Network/networkSecurityGroups/security Rules/direction", "equals": ["parameters[direction]"]], "allOf": ["field": "full Name", "contains": ["Cleanuptool-Deny-103"], "field": "Microsoft.Network/networkSecurityGroups/securityRules/priority", "equals": "103"], "field": "Microsoft. Network/networkSecurityGroups/securityRules/access", "equals": "Deny"], "field": "Microsoft.Network/networkSecurityGroups/securityRules/direction", "equals": "Inbound"]]]], "deployment": ["properties": {"mode": "incremental", "tem
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ation/policyDefinitions", "name": "e695de0794b757d", "properties": {"displayName": "nrms-nsg-rule-
102_1.1", "policyType": "Custom", "mode": "All", "metadata": {"createdBy": "1f75b9dd-4f1d-4e80-9521-
321a8b1f5764", "createdOn": "2019-07-08T19:20:16.2005161Z", "updatedBy": null, "updatedOn": null}, "parameters": {"allowedLocations": {"type": "Array"}, "metadata": {"displayName": "Allowed locations", "description": "The list of locations that can be specified when deploying resources."}, "strongType": "location"}, "ruleNo": {"type": "String", "metadata": {"displayName": "Priority", "description
": "The priority slot for the new rule"}, "allowedValues": ["100", "101", "102", "103", "104", "105", "106", "107", "108", "109"]}, "info": {"type": "String", "metadata": {"displayName": "Description", "description": "A description"}, "destinationPortRanges": {"type": "Array", "metadata": {"displayName": "Port Number", "description": "Security rule port numbers must match these numbers"}}, "subscriptionExclusions": {"type": "Array", "metadata": {"displayName": "Subscriptions Excluded", "description": "Subscriptions excluded from policy due to security"}}}
exceptions"}},"protocol":{"type":"String","metadata":{"displayName":"protocol","description":"Protocol
for the
rule"},"allowedValues":["*","Tcp","Udp"]},"sourceType":{"type":"String","metadata":{"displayName":"sourceTyp
e","description":null},"allowedValues":["IP
Addresses","Service Tag","App Security
Group"]},"sourceValue":{"type":"String","metadata":{"displayName":"sourceValue","description":null}},"actionV
alue":{"type":"String","metadata":{"displayName":"actionValue","description":null},"allowedValues":["Allow","D
eny"]},"direction":{"type":"String","metadata":{"displayName":"direction","description":null},"allowedValues":["I
nbound","Outbound"]},"tagname":{"type":"String","metadata":{"displayName":"Tag
Name","description":"Rule is not deployed if this tag exists on the
NSG"},"allowedValues":["NA","NRMSException","SkipNRMSCorp","nrmsskipcorpnetsaw","SkipNRMSSAW","
SkipNRMSDatabricks","SkipNRMSRDPSSH","SkipNRMSMgmt","SkipNRMSHigh","SkipNRMSVNet","SkipNR
MSLoadBal","SkipNRMSDB","SkipNRMSMedium"],"defaultValue":"NA"}},"policyRule":{"if":{"allOf":[{"field"
:"type","equals":"Microsoft.Network/networkSecurityGroups"},{"field":"location","in":"[parameters(''allowedLocat
ions'')]"},{"field":"[concat(''tags['',
parameters(''tagName''),
'']'')]","exists":"false"},{"field":"tags[''SkipNRMSAll'']","exists":"false"},{"value":"[subscription().subscriptionId]",
"notIn":"[parameters(''subscriptionExclusions'')]"}]},"then":{"effect":"deployIfNotExists","details":{"type":"Micros
efinitions/4d97b98b-1d4f-4787-a291c67834d212e7"],"existenceCondition":{"anyOf":[{"allOf":[{"field":"fullName","equals":"[concat(field(''name''),''/'','
'NRMS-Rule-'',
parameters(''ruleNo''))]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/priority","equals":"[pa
rameters(''ruleno'')]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/sourceAddressPrefix","eq
uals":"[parameters(''sourceValue'')]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/access","e
quals":"[parameters(''actionValue'')]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/direction
","equals":"[parameters(''direction'')]"}]},{"allOf":[{"field":"fullName","equals":"Cleanuptool-Deny103"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/priority","equals":"103"},{"field":"Micro
work/networkSecurityGroups/securityRules/access","equals":"Deny"},{"field":"Microsoft.Network/networkSecurit
yGroups/securityRules/direction","equals":"Inbound"}]}]},"deployment":{"properties":{"mode":"incremental","tem
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type":"String"},"destinationPortRanges":{"type":"Array"},"protocol":{"type":"String"},"sourceType":{"type":"Strin
g"},"sourceValue":{"type":"String"},"actionValue":{"type":"String"},"direction":{"type":"String"},"info":{"type":"
String"}},"variables":{"SourceArr":"[split(parameters(''sourceValue''),'','')]","appSecGroups":{"copy":[{"name":"val
ues","count":"[length(variables(''SourceArr''))]","input":{"id":"[if(equals(parameters(''sourceType''),''App
Security Group''),if(contains(variables(''SourceArr'')[copyindex(''values'')],''subscriptions''),
variables(''SourceArr'')[copyindex(''values'')],resourceId(''Microsoft.Network/applicationSecurityGroups'',
variables(''SourceArr'')[copyindex(''values'')])),
'''')]"}}]}},"resources":[{"type":"Microsoft.Network/networkSecurityGroups/securityRules","name":"[concat(param
eters(''fullName''),''/'',''NRMS-Rule-'',
parameters(''ruleNo''))]","apiVersion":"2017-1001","scale":null,"properties":{"protocol":"[parameters(''protocol'')]","description":"[parameters(''info'')]","sourcePort
Range":"*","sourceAddressPrefix":"[if(equals(parameters(''sourceType''),''Service
Tag''),parameters(''sourceValue''),json(''null''))]","sourceAddressPrefixes":"[if(equals(parameters(''sourceType''),''IP
Addresses''),variables(''SourceArr''),json(''null''))]","sourceApplicationSecurityGroups":"[if(equals(parameters(''sour
ceType''),''App

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The list of locations that can be specified when deploying resources.

The priority slot for the new rule.

A description of the allowed values for the destination port ranges.

Subscriptions excluded from policy due to security exceptions.

A description of the protocol for the rule.

A description of the source type.

A description of the action value.

An existence condition for the rule.

A description of the policy rule.

A description of the subscription exclusion.

A description of the information.

A description of the destination port ranges.

A description of the protocol.

A description of the source value.

A description of the direction.

A description of the tag name.

A description of the SubscriptionExclusions.

A description of the Info.

A description of the Direction.

A description of the Protocol.

A description of the SourceType.

A description of the ActionValue.

A description of the RuleNo.

A description of the AllowedValues.

A description of the SubscriptionExclusions.

A description of the Protocol.

A description of the SourceType.

A description of the ActionValue.

A description of the Direction.

A description of the TagName.

A description of the Rule.

A description of the Priority.

A description of the SubscriptionExclusions.

A description of the Protocol.

A description of the SourceType.

A description of the ActionValue.
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deny"}], "direction": {"type": "String", "metadata": {"displayName": "direction", "description": "null"}, "allowedValues": [{"I nbound", "Outbound"}], "tagName": {"type": "String", "metadata": {"displayName": "Tag Name", "description": "Rule is not deployed if this tag exists on the NSG"}, "allowedValues": [{"NA", "NRMSException", "SkipNRMSCorp", "nrmskipcorpnetsaw", "SkipNRMSAW", "SkipNRMSData bricks", "SkipNRMSRDPSSH", "SkipNRMSMgmt", "SkipNRMSHigh", "SkipNRMSVNet", "SkipNRMSLoadBal", "SkipNRMSDB", "SkipNRMSMedium"}, {"defaultValue": "NA"}], "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Network/networkSecurityGroups"}, {"field": "location", "in": ["parameters(allowedLocations)"]}], "field": ["concat(tags)"], "parameters(tagName)"}], "exists": false}, {"field": ["tags[SkipNRMSAll]"], "exists": false}, {"value": ["subscription().subscriptionId"], "notIn": ["parameters(subscriptionExclusions)"]}], "then": {"effect": "deployIfNotExists", "details": {"type": "Microsoft.Network/networkSecurityGroups/securityRules", "roleDefinitionIds": ["/providers/Microsoft.Authorization/roleDefinitions/4d97b98b-1d4f-4787-a291-c67834d212e7"]}, "existenceCondition": {"anyOf": [{"allOf": [{"field": "fullName", "equals": ["concat(field(name), ","]}, "NRMS-Rule-", parameters("ruleNo"))], "if": ["Microsoft.Network/networkSecurityGroups/securityRules/priority", "equals": ["parameters(ruleNo)"], {"field": "Microsoft.Network/networkSecurityGroups/securityRules/sourceAddressPrefix"}, {"equals": ["parameters(sourceValue)"], {"field": "Microsoft.Network/networkSecurityGroups/securityRules/availabilityGroup"}, {"equals": ["parameters(availabilityGroup)"], {"field": "Microsoft.Network/networkSecurityGroups/securityRules/direction"}, {"equals": ["parameters(direction)"]], {"allOf": [{"field": "fullName", "equals": ["Cleanuptool-Deny-103"], {"field": "Microsoft.Network/networkSecurityGroups/securityRules/sourcesAddressPrefix"}, {"equals": ["Any"], {"field": "Microsoft.Net work/networkSecurityGroups/securityRules/access"}, {"equals": ["Deny"], {"field": "Microsoft.Network/networkSecurityGroups/securityRules/direction"}, {"equals": ["Inbound"]}]}, {"deployment": {"properties": {"mode": "incremental", "template": ["$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": ["fullName": {"type": "string"}, "ruleNo": {"type": "string"}, "destinationPortRanges": {"type": "Array"}, "protocol": {"type": "String"}, "sourceType": {"type": "String"}, "sourceValue": {"type": "String"}, "actionValue": {"type": "String"}, "direction": {"type": "String"}, "info": {"type": "String"}], "variables": [{"SourceArr": ["split(parameters(sourceValue), ",")"}, "appSecGroups": {"copy": {"name": ["values", "count", [length(variables(SourceArr))]], "input": {"id": ["if equals(parameters(sourceType), "App Security Group")", if contains(variables(SourceArr), [copyindex(values)])], "subscriptions", variables(SourceArr)[copyindex(values)])}], "wrap": ["""], "resources": ["type": "Microsoft.Network/networkSecurityGroups/securityRules", "name": ["concat(parameters(fullName), ","]}, "NRMS-Rule-", parameters("ruleNo"))], "apiVersion": "2017-10-01", "scale": "null", "properties": ["[protocol]: ["parameters(protocol)"], "description": ["parameters(info)"], "sourcePort Range": ["type": "String"], "sourceAddressPrefix": ["if equals(parameters(sourceType), "Service Tag")", parameters(sourceValue), json(null)]], "sourceAddressPrefixes": ["if equals(parameters(sourceType), "IP Addresses"), variables(SourceArr), json(null)]], "sourceApplicationSecurityGroups": ["if equals(parameters(sourceType), "App Security Group")", variables(appSecGroups).values(json(null))], "destinationPortRanges": ["if equals(1, length(parameters(destinationPortRanges)))", json(null)], parameters(destinationPortRanges)"], "destinationPortRange": ["if equals(1, length(parameters(destinationPortRanges)))", parameters(destinationPortRanges)"], "destinationAddressPrefix": ["if equals(1, length(parameters(destinationAddressPrefix)))", json(null)]], "destinationApplicationSecurityGroups": [], "access": ["parameters(actionValue)"], "priority": ["parameters(ruleNo)"], "direction": ["parameters(direction)"]}]}], "parameters": ["fullNa
Open Source Used In SDWan

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**nbound**: "Outbound",

**tagname**: {
  "type": "String",
  "metadata": {
    "displayName": "Tag Name",
    "description": "Rule is not deployed if this tag exists on the NSG",
    "defaultValue": "NA"
  }
},

**policyRule**: {
  "if": {
    "allOf": [{
      "field": "type",
      "equals": "Microsoft.Network/networkSecurityGroups",
      "field": "location",
      "in": [parameters(allowedLocations)]
    }, {
      "field": "[concat(tags["parameters(tagName)"], "]\"\")",
      "exists": "false",
      "value": [resourceGroup().tags[parameters(tagName)]]
    }, {
      "field": "tags["SkipNRMSAll"]",
      "exists": "false",
      "value": [resourceGroup().tags["SkipNRMSAll"]]
    }, {
      "field": "tags["autopilotcluster"],
      "exists": "false",
      "value": [resourceGroup().tags["autopilotcluster"]]
    }, {
      "field": "tags["autopilotenvironment"],
      "exists": "false",
      "value": [resourceGroup().tags["autopilotenvironment"]]
    }, {
      "value": [subscription().subscriptionId],
      "notIn": [parameters(subscriptionExclusions)]
    }]
  },
  "then": {
    "effect": "deployIfNotExists",
    "existenceCondition": {
      "anyOf": [{
        "if": ["field": "fullName", "equals": [concat(field("name"), "]\"\")]", "NRMS-Rule-"
      },
      parameters(\"ruleNo\")]
    },
    "deployment": {"properties": {"mode": "incremental", "template": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {
      "fullName": {"type": "string"},
      "ruleNo": {"type": "String"},
      "destinationPortRanges": {"type": "Array"},
      "protocol": {"type": "String"},
      "sourceType": {"type": "String"},
      "sourceValue": {"type": "String"},
      "destinationAddressPrefix": "*",
      "sourceApplicationSecurityGroups": {},
      "destinationPortRanges": [],
      "actionValue": "Deny",
      "direction": "Inbound"
    },
    "variables": {
      "SourceArr": [split(parameters("sourceValue"), "," )],
      "AppSecurityGroup": if(contains(variables("sourceType"), "App Security Group"), variables(\"SourceArr\")[copyindex(values)]),
      "appSecGroups": variables(\"SourceArr\")[copyindex(values)]
    },
    "resources": [{
      "name": [concat(parameters(\"fullName\"), "]\"\")],
      "apiVersion": "2017-10-01",
      "scale": null,
      "properties": {
        "protocol": [parameters(\"protocol\")],
        "description": [parameters(\"info\")]
      },
      "sourcePortRange": "*",
      "sourceAddressPrefix": if(contains(parameters(\"sourceType\"), "Service Tag"), parameters(\"sourceValue\"), json(\"null\")),
      "sourceAddressPrefixes": if(contains(parameters(\"sourceType\"), "IP Addresses"), variables(\"SourceArr\"), json(\"null\")),
      "sourceApplicationSecurityGroups": if(contains(parameters(\"sourceType\"), "App Security Group"), variables(\"appSecGroups\"), json(\"null\")),
      "destinationPortRanges": if(1, length(parameters(\"destinationPortRanges\")), json(\"null\")),
      "destinationAddressPrefix": "*",
      "priority": [parameters(\"ruleNo\")],
      "direction": [parameters(\"direction\")]
    }]
  }
}
strict-transport-security:
- max-age=31536000; includeSubDomains
transfer-encoding:
- chunked
vary:
- Accept-Encoding,Accept-Encoding
x-content-type-options:
- nosniff
status:
  code: 200
  message: OK
- request:
  body: "b""b"{"properties": {"policyDefinitionId": "/subscriptions/00000000-0000-0000-0000-000000000000/providers/Microsoft.Authorization/policyDefinitions/pypolicyea4a13f0"}}""
  headers:
  Accept:
- application/json
  Accept-Encoding:
- gzip, deflate
  Connection:
- keep-alive
  Content-Length:
- '162'
  Content-Type:
- application/json; charset=utf-8
  User-Agent:
- python/3.6.9 (Linux-5.0.0-1032-azure-x86_64-with-Ubuntu-18.04-bionic) msrest/0.6.10
  msrest_azure/0.6.2 azure-mgmt-resource/10.0.0 Azure-SDK-For-Python
  accept-language:
- en-US
  method: PUT
  response:
  body:
- string: '{"sku": {"name": "A0", "tier": "Free"}, "properties": {"policyDefinitionId": "/subscriptions/00000000-0000-0000-0000-000000000000/providers/Microsoft.Authorization/policyDefinitions/pypolicyea4a13f0", "scope": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0", "metadata": {"createdById": "123743cc-88ef-49ee-920e-13958fe5697d", "createdOn": "2020-06-05T02:26:20.3838837Z", "updatedById": null, "updatedOn": null}, "enforcementMode": "Default"}, "id": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0/providers/Microsoft.Authorization/policyAssignments/pypolicyassignmentea4a13f0"}'}
  headers:
cache-control: no-cache
content-length: 794
content-type: application/json; charset=utf-8
date: Fri, 05 Jun 2020 02:26:20 GMT
expires: -1
pragma: no-cache
strict-transport-security: max-age=31536000; includeSubDomains
x-content-type-options: nosniff
x-ms-ratelimit-remaining-subscription-writes: 1198
status:
  code: 201
  message: Created
request:
  body: null
headers:
  Accept:
  - application/json
  Accept-Encoding:
  - gzip, deflate
  Connection:
  - keep-alive
  User-Agent:
  - python/3.6.9 (Linux-5.0.0-1032-azure-x86_64-with-Ubuntu-18.04-bionic) msrest/0.6.10 msrest_azure/0.6.2 azure-mgmt-resource/10.0.0 Azure-SDK-For-Python
  accept-language:
  - en-US
method: GET
response:
  body:
  string: |
"sku": {"name":"A0","tier":"Free"},"properties": {"policyDefinitionId": "/subscriptions/00000000-0000-0000-0000-000000000000/providers/Microsoft.Authorization/policyDefinitions/pypolicyea4a13f0","scope": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0","metadata": {"createdBy": "123743cc-88ef-49ee-920e-13958fe5697d","createdOn": "2020-06-05T02:26:20.3838837Z","updatedBy": null,"updatedOn": null},"enforcementMode": "Default"},"id": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0/providers/Microsoft.Authorization/policyAssignments/pypolicyassignmentea4a13f0"
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Default (subscription: 00000000-0000-0000-0000-000000000000)

- policyDefinitionId: /providers/Microsoft.Authorization/policySetDefinitions/1f3afdf9-d0e9-4c3d-847f-89d6a13e70a8
- scope: /subscriptions/00000000-0000-0000-0000-000000000000

- parameters: {
  diagnosticsLogsInServiceFabricMonitoringEffect: {"value": "AuditIfNotExists"},
  systemUpdatesMonitoringEffect: {"value": "AuditIfNotExists"},
  systemConfigurationsMonitoringEffect: {"value": "AuditIfNotExists"},
  endpointProtectionMonitoringEffect: {"value": "AuditIfNotExists"},
  diskEncryptionMonitoringEffect: {"value": "AuditIfNotExists"},
  networkSecurityGroupsMonitoringEffect: {"value": "AuditIfNotExists"},
  webApplicationFirewallMonitoringEffect: {"value": "AuditIfNotExists"},
  sqlAuditingMonitoringEffect: {"value": "AuditIfNotExists"},
  sqlEncryptionMonitoringEffect: {"value": "AuditIfNotExists"},
  nextGenerationFirewallMonitoringEffect: {"value": "AuditIfNotExists"},
  vulnerabilityAssessmentMonitoringEffect: {"value": "AuditIfNotExists"},
  storageEncryptionMonitoringEffect: {"value": "Audit"},
  jitNetworkAccessMonitoringEffect: {"value": "AuditIfNotExists"},
  adaptiveApplicationControlsMonitoringEffect: {"value": "AuditIfNotExists"},
  identityDesignateLessThanOwnersMonitoringEffect: {"value": "AuditIfNotExists"},
  identityDesignateMoreThanOneOwnerMonitoringEffect: {"value": "AuditIfNotExists"},
  identityEnableMFAForOwnerPermissionsMonitoringEffect: {"value": "AuditIfNotExists"},
  identityEnableMFAForWritePermissionsMonitoringEffect: {"value": "AuditIfNotExists"},
  identityRemoveDeprecatedAccountWithOwnerPermissionsMonitoringEffect: {"value": "AuditIfNotExists"},
  identityRemoveDeprecatedAccountWithOwnerPermissionsMonitoringEffect: {"value": "AuditIfNotExists"},
  identityRemoveExternalAccountWithOwnerPermissionsMonitoringEffect: {"value": "AuditIfNotExists"},
  identityRemoveExternalAccountWithWritePermissionsMonitoringEffect: {"value": "AuditIfNotExists"},
  identityRemoveExternalAccountWithReadPermissionsMonitoringEffect: {"value": "AuditIfNotExists"},
  description: "This policy assignment was automatically created by Azure Security Center",
  metadata: {"assignedBy": "Security Center"},
  enforcementMode: "Default"}

id: /subscriptions/00000000-0000-0000-0000-000000000000/providers/Microsoft.Authorization/policyAssignments/SecurityCenterBuiltIn

sku: {name: "A0", tier: "Free"}

properties: {
  policyDefinitionId: /subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0/providers/Microsoft.Authorization/policyDefinitions/pypolicyea4a13f0/scope: /subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0/providers/Microsoft.Authorization/policyAssignments/pypolicyassignmentea4a13f0

- displayName: audit ssh auth 1.4
- policyDefinitionId: /providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policySetDefinitions/3be0ea1bef3d71ca/scope: /subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0/providers/Microsoft.Authorization/policyAssignments/pypolicyassignmentea4a13f0/scope: /subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0/providers/Microsoft.Authorization/policyAssignments/pypolicyassignmentea4a13f0

- description: "This initiative audits whether any Linux VMs or VMSS use password-only authentication for SSH. See https://aka.ms/gt/AzurePolicy for more details"
  metadata: {"createdBy": "1f75b9dd-4f1d-4e80-"}

  description: "This initiative audits whether any Linux VMs or VMSS use password-only authentication for SSH. See https://aka.ms/gt/AzurePolicy for more details"
Batch Accounts must use a Pool Allocation Mode of User subscription on the Advanced tab to configure a VNet in the subscriptiong. This enables the use of NSGs to secure the network traffic for the Batch Account. See https://aka.ms/netiso/vnetinjection for more details.

All C+AI Subscriptions must have a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs for more details.

All C+AI Subscriptions must have a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs for more details.
C+AI Subscriptions must have a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs for more details.

Kubernetes must use the Advanced Networking option to configure the Kubernetes cluster to use a Virtual Network that is on the subscription of the user. This enables the use of NSGs to secure the network traffic for the Kubernetes containers. See https://aka.ms/netiso/vnetinjection for more details.
Clusters must use the Custom configuration option to configure a VNet in the subscription. This enables the use of NSGs to secure the network traffic for the HDInsight cluster. See [https://aka.ms/netiso/vnetinjection](https://aka.ms/netiso/vnetinjection) for more details.

Batch Pools must be configured to use a VNet in the users subscription. This enables the use of NSGs to secure the network traffic for the Batch Account. See [https://aka.ms/netiso/vnetinjection](https://aka.ms/netiso/vnetinjection) for more details.
Kubernetes must use the Advanced Networking option to configure the Kubernetes cluster to use a Virtual Network that is on the subscription of the user. This enables the use of NSGs to secure the network traffic for the Kubernetes container. See https://aka.ms/netiso/vnetinjection for more details.
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All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.

C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs
for more details","metadata":{"createdBy":"1f75b9dd-4f1d-4e80-9521-321a8b1f5764","createdOn":"2020-02-24T21:27:59.4953193Z","updatedBy":"1f75b9dd-4f1d-4e80-9521-321a8b1f5764","updatedOn":"2020-03-09T21:12:59.938494Z"},"enforcementMode":"Default"},"identity":{"principalId":"2ac3f52f-f3ad-40a4-9b2d-aa24e76bbba","tenantId":"72f988bf-86f1-41af-91ab-2d7cd011db47","type":"SystemAssigned"},"id":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyAssignments/ NRMS-NSG-DINE-SR103-v014","type":"Microsoft.Authorization/policyAssignments","name":"NRMS-NSG-DINE-SR103-v014","location":"eastus2","sku":{"name":"A0","tier":"Free"},"properties":{"displayName":"nrms-nsg-rule-104_1.3","policyDefinitionId":"/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyDefinitions/bac0fb65020410a4","scope":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b766155f2792","parameters":{"allowedLocations":{"value":[]},"ruleNo":{"value":"104"},"info":{"value":null},"destinationPortRanges":{"value":[]},"protocol":{"value":null},"sourceType":{"value":null},"sourceValue":{"value":null},"actionValue":{"value":null},"direction":{"value":null},"tagname":{"value":null},"subscriptionExclusions":{"value":[]}}},"description":"All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/cainsgpolicy for more details."}
NOT DELETE - Will result in ICM Sev 2 - Azure Core Security, see aka.ms/cainsgpolicy

destinationPortRanges:
- "1433"
- "1434"
- "3306"
- "4333"
- "5432"
- "6379"
- "7000"
- "7001"
- "7199"
- "9042"
- "9160"
- "9300"
- "16379"
- "26379"
- "3306"
- "7000"
- "7001"
C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.
All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.

87bf0d632b32-2e2f-93bb-9aee0f3c076a7e04f93c24d1253f3b7f5a931-0814-4847-88ce-b766155f2f792/providers/Microsoft.Authorization/policyAssignments/NRMS-NSG-DINE-SR106-v013派人：

"sku":

"parameters":

"values":

"allowedLocations":

"value":

"centraluseuap","eastus2euap","westcentralus","northeastus","northcentralus","westus","eastasia","australiacentral","australiaeast","canadacentral","northeasteur","centralindia","japaneast","koreacentral","uksouth","centralus","eastus","westus2","francecentral","southafricanorth","germanynorth","norwaywest","switzerlandnorth","uaenorth","southeastasia","australiacentral2","australiasoutheast","canadacentral","westerurope","southindia","japanwest","koreasouth","ukwest","eastus2","southcentralus","brazilsouth","westindia","francesouth","southafricawest","germanynorth","norwaywest","uaceentral","switzerlandwest","global","brazilus","indiasouth","indiacentral","uknorth","uksouth2"]}

"ruleNo":

"value":

"107"

"info":

"value":

"DO NOT DELETE - Will result in ICM Sev 2 - Azure Core Security, see aka.ms/cainsgpolicy"

"destinationPortRanges":

"value":

"23","135","445","5985","5986"]

"protocol":

"value":

"TCP"

"sourceType":

"value":

"Service"
All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.
C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.

NOT DELETE - Will result in ICM Sev 2 - Azure Core Security, see aka.ms/cainsgpolicy.

DestinationPortRanges: ["value": ["119", "137", "138", "139", "161", "162", "389", "636", "2049", "2301", "2381", "3268", "5800", "5900"]], protocol: ["value": "*", "sourceType": ["value": "Service Tag"], sourceValue: ["value": "Internet"], actionValue: ["value": "Deny"], direction: ["value": "Inbound"], tagname: ["value": "SkipNRMSMedium"], subscriptionExclusions: ["value": ["61868ab8-16d4-44ec-a9ff-f35d05922847", "41e39ac7-6cede-4be7-87ec-3d5a1686b792", "235d341f-7bf9-435c-9bdc-034b7306e9b4", "239b3f1a-daab-4125-918e-f02b8b0edb054", "12f44720-8952-422c-bb7d-28831c2de639", "3c6df9e7-c5b1-4d3e-bb85-2e538040258b", "243b67d4-60ca-4dfd-a556-216ee06f771a", "24a0ae-2c0b-4a1a-9929-bed71bad059", "b4582baf-35df-479b-803d-1b126876221", "65f79f17-cb42-451b-8287-4635df05fe26", "9532a63e-f2eb-4649-bb23-5ed01077ce80", "1533031f-9510-4d8d-8f38-a94df4d543c", "73d25f29-e039-1a8ed-2b23c8e1517", "86d6fd7-564b-4005-912c-b1a3a9a286ce", "97af3d90-8d62-4f20-b579-39eeb6b6cb45", "179be307-0377-4e60-a88b-17437582d266", "6c51c6-14-c378-4780-bc52-dd1d098a9cb", "cc5e1d6-ce80-4878-8d9a-6b0310ff296", "0fbb3299-3a19-4a96-87da-b23c3aca7fd7", "ad7af743-6a66-480e-98cd-02b2833d0ce", "0cfce98e-13cf-41ca-95f4-435d1da6af0", "ec6f70fa-18b5-4503-80d9-4a225591a428", "28446c7-7c1e-42f0-a6b7-d66d1f255cc", "ff70820c-d5a1-4a8e-8ebd-6df10f608ff", "b7d78f93-d9d1-4bea-ac14-30a9ed6633", "6fe004c-aceb-49-474-8153-56a6cb666ca8", "7fa88f8d-252c-4b22-a73e-cd7785cca66", "ba6f24-97b4-d6a0-9891-4b3e12ab22e", "aab41af-ed4-4f02-bb87-5de8b0d880d", "7e7b7a6f-0b34-4db9-958d-ece4b98419", "946c10bb-8ae6-43bc-83-d3b6318ec67305", "7929b4b8-8391-4d57-8045-b34a092e5108", "3f076ca0-34d7-4de7-a432-3c1a37d5d5e6", "7856cb6f-e1a8-4f82-b2a5-bfaa7f8c34a1", "493ed89-bbdb-4545-844f-e3502d6ce44f", "8cad7ef7-ae41-4adf-86b8-fcfc11faced200", "8e9ec08-bf06-43a5-acd2-
All C+AI Subscriptions must have pre-defined C+AI NSG subscriptions. See https://aka.ms/netiso/nsgs for more details.

C+AI Subscriptions must have a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs for more details.

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All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.
string: ['"value":{{{"sku":{"name":"A1","tier":"Standard"}},"properties":{"displayName":"ASC Default (subscription: 00000000-0000-0000-0000-000000000000)"},"policyDefinitionId":"/providers/Microsoft.Authorization/policySetDefinitions/1f3afdf9-d0c9-4c3d-847f-89da613e70a8","scope":"subscriptions/00000000-0000-0000-0000-000000000000","parameters":{"diagnosticsLogsInServiceFabricMonitoringEffect":{"value":"AuditIfNotExists"},"systemUpdatesMonitoringEffect":{"value":"AuditIfNotExists"},"systemConfigurationsMonitoringEffect":{"value":"AuditIfNotExists"},"endpointProtectionMonitoringEffect":{"value":"AuditIfNotExists"},"diskEncryptionMonitoringEffect":{"value":"AuditIfNotExists"},"networkSecurityGroupsMonitoringEffect":{"value":"AuditIfNotExists"},"webApplicationFirewallMonitoringEffect":{"value":"AuditIfNotExists"},"sqlAuditingMonitoringEffect":{"value":"AuditIfNotExists"},"sqlEncryptionMonitoringEffect":{"value":"AuditIfNotExists"},"nextGenerationFirewallMonitoringEffect":{"value":"AuditIfNotExists"},"vulnerabilityAssesmentMonitoringEffect":{"value":"AuditIfNotExists"},"storageEncryptionMonitoringEffect":{"value":"Audit"},"jitNetworkAccessMonitoringEffect":{"value":"AuditIfNotExists"},"adaptiveApplicationControlsMonitoringEffect":{"value":"AuditIfNotExists"},"identityDesignateLessThanOwnersMonitoringEffect":{"value":"AuditIfNotExists"},"identityDesignateMoreThanOneOwnerMonitoringEffect":{"value":"AuditIfNotExists"},"identityEnableMFAForOwnerPermissionsMonitoringEffect":{"value":"AuditIfNotExists"},"identityEnableMFAForWritePermissionsMonitoringEffect":{"value":"AuditIfNotExists"},"identityEnableMFAForReadPermissionsMonitoringEffect":{"value":"AuditIfNotExists"},"identityRemoveDeprecatedAccountWithOwnerPermissionsMonitoringEffect":{"value":"AuditIfNotExists"},"identityRemoveExternalAccountWithOwnerPermissionsMonitoringEffect":{"value":"AuditIfNotExists"},"identityRemoveExternalAccountWithWritePermissionsMonitoringEffect":{"value":"AuditIfNotExists"},"identityRemoveExternalAccountWithReadPermissionsMonitoringEffect":{"value":"AuditIfNotExists"}},"description":"This policy assignment was automatically created by Azure Security Center","metadata":{"assignedBy":"Security Center","enforcementMode":"Default"}},"id":"subscriptions/00000000-0000-0000-0000-000000000000/providers/Microsoft.Authorization/policyAssignments/SecurityCenterBuiltIn","type":"Microsoft.Authorization/policyAssignments","name":"SecurityCenterBuiltIn"},"sku":{"name":"A0","tier":"Free"},"properties":{ "policyDefinitionId":"/subscriptions/00000000-0000-0000-0000-000000000000/providers/Microsoft.Authorization/policyDefinitions/pypolicyea4a13f0","scope":"subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitiona4a13f0","metadata":{"createdBy":"123743cc-88ef-49ee-920e-13958fe5697d","createdOn":"2020-06-05T02:26:20.3838837Z","updatedBy":null,"updatedOn":null},"enforcementMode":Default","id":/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitiona4a13f0/providers/Microsoft.Authorization/policyAssignments/pypolicyassignmenta4a13f0","type":"Microsoft.Authorization/policyAssignments","name":"pypolicyassignmenta4a13f0"},"sku":{"name":"A0","tier":"Free"},"properties":{ "policyDefinitionId":/subscriptions/00000000-0000-0000-0000-000000000000/providers/Microsoft.Authorization/policyDefinitions/3be0ea1bef3d71ca","scope":/subscriptions/3be0ea1bef3d71ca/providers/Microsoft.Authorization/policyAssignments/3be0ea1bef3d71ca"}
This initiative audits whether any Linux VMs or VMSS use password-only authentication for SSH. See [https://aka.ms/gt/AzurePolicy](https://aka.ms/gt/AzurePolicy) for more details.

Batch Accounts must use a Pool Allocation Mode of User subscription on the Advanced tab to configure a VNet in the subscription. This enables the use of NSGs to secure the network traffic for the Batch Account. See [https://aka.ms/netiso/vnetinjection](https://aka.ms/netiso/vnetinjection) for more details.

C+AI Subscriptions must have a NSG on all VNets in the subscription. See [https://aka.ms/netiso/nsgs](https://aka.ms/netiso/nsgs) for more details.
C+AI Subscriptions must have a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs for more details.

Kubernetes must use the Advanced Networking option to configure the Kubernetes cluster to use a Virtual Network that is on the subscription of the user. This enables the use of NSGs to secure the network traffic for the Kubernetes container. See https://aka.ms/netiso/vnetinjection for more details.

Kubernetes must use the Advanced Networking option to configure the Kubernetes cluster to use a Virtual Network that is on the subscription of the user. This enables the use of NSGs to secure the network traffic for the Kubernetes container. See https://aka.ms/netiso/vnetinjection for more details.

Kubernetes must use the Advanced Networking option to configure the Kubernetes cluster to use a Virtual Network that is on the subscription of the user. This enables the use of NSGs to secure the network traffic for the Kubernetes container. See https://aka.ms/netiso/vnetinjection for more details.
Clusters must use the Custom configuration option to configure a VNet in the subscription. This enables the use of NSGs to secure the network traffic for the HDInsight cluster. See https://aka.ms/netiso/vnetinjection for more details.

Batch Pools must be configured to use a VNet in the users subscription. This enables the use of NSGs to secure the network traffic for the Batch Account. See https://aka.ms/netiso/vnetinjection for more details.
Clusters must use the Custom configuration option to configure a VNet in the subscription. This enables the use of NSGs to secure the network traffic for the HDInsight cluster. See https://aka.ms/netiso/vnetinjection for more details.

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All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.
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### Subscription Details

- **Tenant ID**: `72f88b8f-86f1-41af-91ab-2d7cd01d1b47`
- **Type**: `SystemAssigned`
- **Properties**: `{ "displayName": "nrms-nsg-rule-106_1.3", "policyDefinitionId": "/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyAssignments/NRMS-NSG-DINE-SR105-v013", "location": "australiasoutheast", "sku": { "name": "A0", "tier": "Free" }, "parameters": { "allowedLocations": ["centraluseuap", "eastus2euap", "westcentralus", "northeurope", "centralindia", "japanest", "koreacentral", "uksouth", "centralus", "westus2", "francecentral", "southafricanorth", "germanynorth", "norwayeast", "switzerlandnorth", "uenuorth", "southeastasia", "australiaeast2", "australiasoutheast", "canadasteast", "westeuropa", "southeastasia", "japanwest", "koreasouth", "ukwest", "southcentralus", "brazilsouth", "westindia", "francesouth", "southafricawest", "germanywestcentral", "norwaywest", "uaceentral", "switzerlandwest", "global", "brazilus", "indiasouth", "indiacentral", "uknorth", "uksouth2" ], "ruleNo": "106", "info": { "value": "DO NOT DELETE - Will result in ICM Sev 2 - Azure Core Security, see aka.ms/cainsgpolicy", "destinationPortRanges": ["22", "3389"], "protocol": "Tcp", "sourceType": { "value": "ServiceTag" }, "sourceValue": { "value": "Internet" }, "actionValue": { "value": "Deny" }, "direction": { "value": "Inbound" }, "tags": { "value": "SkipNRMSDPSHH" }, "subscriptionExclusions": { "value": ["5d5d05922847", "41c39ac7-6cede-4be7-7873-d57a166b7b92", "235d341f-7fb9-435c-9bdc-034b7306c9b4", "239bf61-aab4-4125-918c-f028b0edf504", "12df44720-8952-422c-bb7d-2883c3e2cde639", "e36d9f7-65b1-4d3e-bb5b-2e538040258b", "243b67d4-60ca-4d0a-4556-216eeff0771a", "24a0ae2-2c0b-4a1a-9929-bed71bad059", "b5482ba2-354b-a47b-5b0d-1b126876221", "657f971-cb42-451b-82b7-4635df05fe26", "9532a63e-f2eb-4649-bb23-5ed01077e8c", "1533031f-9510-4d8d-8fb3-af94d45d43ec", "73d5f92e-703-4e9-8aed-2fb3c8e151", "86df87d-564b-4005-912c-b1a3a9a286ce", "97af3d90-8dfe-42f0-b579-39e6e6b0c4", "179be30-0377-4c6a-84bb-17437582d266", "6c516c-4378-4780-bc52-dd1d908a90cf", "cc5e1d36-a80d-4878-adding-5204a7efda20", "0f8f38929-3a19-4a96-87da-b23c3aca7fd7", "ad7af743-6a66-480e-98cd-e022f833d0c", "0ce98e1-3cf6-41ca-9f54-435d1ddaf0de", "ce6570fa-18ff-4b03-80d9-

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All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.
of multiple policies to enable auto update of security pack and geneva.
Open Source Used In SDWan 20.7.1 9110

msrest_azure/0.6.2 azure-mgmt-resource/10.0.0 Azure-SDK-For-Python
accept-language:
  - en-US
method: DELETE
uri: https://management.azure.com/subscriptions/00000000-0000-0000-0000-
000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0/providers/Microsoft.Au
thorization/policyAssignments/pypolicyassignmentea4a13f0?api-version=2019-09-01
response:
body:
  string: "{"sku":{"name":"A0","tier":"Free"},"properties":{"policyDefinitionId":"/subscriptions/00000000-0000-
000000-0000-0000-000000000000/providers/Microsoft.Authorization/policyDefinitions/pypolicyea4a13f0","scope":"/subscriptions/000
000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0","metadata":{"createdB
y":"123743cc-88ef-49ee-920e-13958fe5697d","createdOn":"2020-06-
05T02:26:20.3838837Z","updatedBy":null,"updatedOn":null},"enforcementMode":"Default"},"id":"/subscriptions/0
0000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0/providers/Microsoft.Au
thorization/policyAssignments/pypolicyassignmentea4a13f0","type":"Microsoft.Authorization/policyAssignments",
"name":"pypolicyassignmentea4a13f0"}"
headers:
  cache-control:
  - no-cache
  content-length:
  - '794'
  content-type:
  - application/json; charset=utf-8
date:
  - Fri, 05 Jun 2020 02:26:22 GMT
expires:
  - '1'
pragma:
  - no-cache
strict-transport-security:
  - max-age=31536000; includeSubDomains
transfer-encoding:
  - chunked
vary:
  - Accept-Encoding
content-type:
  - application/json; charset=utf-8
x-content-type-options:
  - nosniff
x-ms-ratelimit-remaining-subscription-deletes:
  - '14999'
status:
  code: 200
  message: OK
request:
body: 'b"b\""{"properties": {"policyDefinitionId": "subscriptions/00000000-0000-0000-0000-0000-0000-0000-000000000000/providers/Microsoft.Authorization/policyAssignments/pypolicyassignmentea4a13f0","scope": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0","metadata": {"createdBy": "123743cc-88ef-49ee-920e-13958fe5697d","createdOn": "2020-06-05T02:26:20.3838837Z","updatedBy": null,"updatedOn": null},"enforcementMode": "Default"},"id": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0/providers/Microsoft.Authorization/policyAssignments/pypolicyassignmentea4a13f0","type": "Microsoft.Authorization/policyAssignments","name": "pypolicyassignmentea4a13f0"}
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  Accept:
  - application/json
  Accept-Encoding:
  - gzip, deflate
  Connection:
  - keep-alive
  Content-Length:
  - '162'
  Content-Type:
  - application/json; charset=utf-8
User-Agent:
  - python/3.6.9 (Linux-5.0.0-1032-azure-x86_64-with-Ubuntu-18.04-bionic) msrest/0.6.10
  msrest_azure/0.6.2 azure-mgmt-resource/10.0.0 Azure-SDK-For-Python
accept-language:
  - en-US
method: PUT
response:
  body:
    string: '{"sku":{"name":"A0","tier":"Free"},"properties":{"policyDefinitionId":/subscriptions/00000000-0000-0000-0000-000000000000/providers/Microsoft.Authorization/policyDefinitions/pypolicyea4a13f0","scope":/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0","metadata":{"createdBy":"123743cc-88ef-49ee-920e-13958fe5697d","createdOn":"2020-06-05T02:26:22.8064968Z","updatedBy":null,"updatedOn":null,"enforcementMode":"Default"},"id":/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0/providers/Microsoft.Authorization/policyAssignments/pypolicyassignmentea4a13f0","name":"pypolicyassignmentea4a13f0"}}
headers:
  cache-control:
  - no-cache
  content-length:
  - '794'
  content-type:
  - application/json; charset=utf-8
date:
  - Fri, 05 Jun 2020 02:26:22 GMT
expires:
  - '-1'
pragma:
  - no-cache
strict-transport-security:
headers:
    cache-control:
    - no-cache
    content-length:
    - '794'
    content-type:
    - application/json; charset=utf-8
    date:
    - Fri, 05 Jun 2020 02:26:22 GMT
    expires:
    - '-1'
    pragma:
    - no-cache
    strict-transport-security:
    - max-age=31536000; includeSubDomains
    transfer-encoding:
    - chunked
    vary:
    - Accept-Encoding, Accept-Encoding
    x-content-type-options:
    - nosniff
    x-ms-ratelimit-remaining-subscription-deletes:
    - '14998'
status:
    code: 200
    message: OK
request:
    body: null
headers:
    Accept:
    - application/json
    Accept-Encoding:
    - gzip, deflate
    Connection:
    - keep-alive
    Content-Length:
    - '0'
    User-Agent:
    - python/3.6.9 (Linux-5.0.0-1032-azure-x86_64-with-Ubuntu-18.04-bionic) msrest/0.6.10
      msrestazure/0.6.2 azure-mgmt-resource/10.0.0 Azure-SDK-For-Python
    accept-language:
    - en-US
method: DELETE
uri: https://management.azure.com/subscriptions/00000000-0000-0000-0000-
000000000000/providers/Microsoft.Authorization/policyDefinitions/pypolicyea4a13f0?api-version=2019-09-01
response:
    body:
    string: '[:"properties":{"policyType":"Custom","mode":"Indexed","description":"Don''t"}]
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-0/azure-mgmt-resource-10.0.0/azure/mgmt/resource/subscriptions/_subscription_client.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-0/azure-mgmt-resource-10.0.0/azure/mgmt/resource/subscriptions/v2019_11_01/operations/_subscriptions_operations.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-0/azure-mgmt-resource-10.0.0/azure/mgmt/resource/features/_feature_client.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-0/azure-mgmt-resource-10.0.0/azure/mgmt/resource/policy/v2018_03_01/version.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-0/azure-mgmt-resource-10.0.0/azure/mgmt/resource/locks/v2015_01_01/models/_models.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-0/azure-mgmt-resource-10.0.0/azure/mgmt/resource/subscriptions/v2016_06_01/operations/__init__.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-0/azure-mgmt-resource-10.0.0/azure/mgmt/resource/locks/_management_lock_client.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-0/azure-mgmt-resource-10.0.0/azure/mgmt/resource/resources/v2019_07_01/version.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-0/azure-mgmt-resource-10.0.0/azure/mgmt/resource/resources/v2019_05_10/models/_resource_management_client_enums.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: azure-mgmt-resource
Version: 10.0.0
Summary: Microsoft Azure Resource Management Client Library for Python
Home-page: https://github.com/Azure/azure-sdk-for-python
Author: Microsoft Corporation
Author-email: azpsdkhelp@microsoft.com
License: MIT License
Description: # Microsoft Azure SDK for Python

This is the Microsoft Azure Resource Management Client Library.
This package has been tested with Python 2.7, 3.5, 3.6, 3.7 and 3.8.
For a more complete view of Azure libraries, see the [Github repo](https://github.com/Azure/azure-sdk-for-python)

# Usage

For code examples, see [Resource Management](https://docs.microsoft.com/python/api/overview/azure/resources) on docs.microsoft.com.

# Provide Feedback

If you encounter any bugs or have suggestions, please file an issue in the [Issues](https://github.com/Azure/azure-sdk-for-python/issues) section of the project.

![Impressions](https://azure-sdk-impressions.azurewebsites.net/api/impressions/azure-sdk-for-python%2Fazure-mgmt-resource%2FREADME.png)

# Release History
# 10.0.0 (2020-06-02)

**Features**

- Model AzurePowerShellScript has a new parameter storage_account_settings
- Model DeploymentOperationProperties has a new parameter provisioning_operation
- Model AzureCliScript has a new parameter storage_account_settings

**Breaking changes**

- Model AliasPathType no longer has parameter pattern

## 9.0.0 (2020-03-31)

**Features**

- Model Location has a new parameter metadata
- Model Location has a new parameter regional_display_name
- Model Deployment has a new parameter tags
- Model AliasPathType has a new parameter pattern
- Model ScopedDeployment has a new parameter tags
- Model DeploymentPropertiesExtended has a new parameter template_hash
- Model DeploymentPropertiesExtended has a new parameter validated_resources
- Model DeploymentPropertiesExtended has a new parameter error
- Model DeploymentPropertiesExtended has a new parameter output_resources
- Model DeploymentExtended has a new parameter tags
- Model Subscription has a new parameter tags
- Added operation FeaturesOperations.unregister
- Added operation TagsOperations.get_at_scope
- Added operation TagsOperations.update_at_scope
- Added operation TagsOperations.delete_at_scope
- Added operation TagsOperations.create_or_update_at_scope
- Added operation group DeploymentScriptsOperations

**Breaking changes**

- Model Location no longer has parameter latitude
- Model Location no longer has parameter longitude
- Model DeploymentPropertiesExtended no longer has parameter template
- Model TagsResource no longer has parameter tags
- Model TagsResource no longer has parameter location
- Operation DeploymentsOperations.validate_at_management_group_scope has a new signature
- Operation DeploymentsOperations.validate_at_subscription_scope has a new signature
- Operation DeploymentsOperations.create_or_update_at_subscription_scope has a new signature
- Operation DeploymentsOperations.create_or_update_at_tenant_scope has a new signature
- Operation DeploymentsOperations.create_or_update_at_scope has a new signature
- Operation DeploymentsOperations.validate has a new signature
- Operation DeploymentsOperations.create_or_update has a new signature
- Operation DeploymentsOperations.validate_at_scope has a new signature
- Operation DeploymentsOperations.validate_at_tenant_scope has a new signature
- Operation DeploymentsOperations.create_or_update_at_management_group_scope has a new signature
- Model TenantIdDescription has a new signature
- Removed operation TagsOperations.resource_get
- Removed operation TagsOperations.resource_delete
- Removed operation TagsOperations.resource_create
- Removed operation TagsOperations.resource_update

## 8.0.1 (2020-02-04)

**Bugfixes**

- Added missing API versions

## 8.0.0 (2020-01-24)

**Features**

- Added operation PolicyAssignmentsOperations.list_for_management_group

**Breaking changes**

- Operation DeploymentsOperations.create_or_update_at_tenant_scope has a new signature
- Operation DeploymentsOperations.validate_at_tenant_scope has a new signature
- Operation DeploymentsOperations.validate_at_management_group_scope has a new signature
- Operation DeploymentsOperations.create_or_update_at_management_group_scope has a new signature

## 7.0.0 (2019-12-07)

**Features**

- Model TenantIdDescription has a new parameter display_name
- Model TenantIdDescription has a new parameter domains
- Model Application has a new parameter ui_definition_uri
- Model ApplicationPatchable has a new parameter ui_definition_uri

**Breaking changes**

- Operation DeploymentsOperations.create_or_update_at_tenant_scope has a new signature
- Operation DeploymentsOperations.validate_at_tenant_scope has a new signature
- Operation DeploymentsOperations.create_or_update_at_management_group_scope has a new signature
- Operation DeploymentsOperations.validate_at_management_group_scope has a new signature
- Operation DeploymentsOperations.validate_at_tenant_scope has a new signature
- Model PolicySetDefinition no longer has parameter policy_definition_groups
- Model Subscription no longer has parameter managed_by_tenants
- Model DeploymentValidateResult no longer has parameter error
- Removed operation DeploymentsOperations.what_if
- Removed operation DeploymentsOperations.what_if_at_subscription_scope
- Model PolicyDefinitionReference has a new signature

## 6.0.0 (2019-11-01)

**Features**

- Model PolicySetDefinition has a new parameter policy_definition_groups

**Breaking changes**

- Operation DeploymentsOperations.validate_at_tenant_scope has a new signature
- Operation DeploymentsOperations.create_or_update_at_management_group_scope has a new signature
- Operation DeploymentsOperations.validate_at_management_group_scope has a new signature
- Operation DeploymentsOperations.create_or_update_at_tenant_scope has a new signature
- Model PolicyDefinitionReference has a new signature

## 5.1.0 (2019-10-04)

**Features**

- Added operation DeploymentsOperations.what_if
- Added operation DeploymentsOperations.what_if_at_subscription_scope

## 5.0.0 (2019-09-22)

**Features**

- Model DeploymentValidateResult has a new parameter error
- Model Subscription has a new parameter managed_by_tenants
**Breaking changes**

- Model Application no longer has parameter ui_definition_uri
- Model ApplicationPatchable no longer has parameter ui_definition_uri
- Model TenantIdDescription no longer has parameter display_name
- Model TenantIdDescription no longer has parameter domains

## 4.0.0 (2019-09-03)

**Features**

- Model PolicyAssignment has a new parameter enforcement_mode
- Added operation DeploymentOperations.get_at_scope
- Added operation DeploymentOperations.list_at_tenant_scope
- Added operation DeploymentOperations.get_at_tenant_scope
- Added operation DeploymentOperations.list_at_tenant_scope
- Added operation DeploymentsOperations.create_or_update_at_tenant_scope
- Added operation DeploymentsOperations.list_at_tenant_scope
- Added operation DeploymentsOperations.delete_at_tenant_scope
- Added operation DeploymentsOperations.cancel_at_tenant_scope
- Added operation DeploymentsOperations.list_at_tenant_scope
- Added operation DeploymentsOperations.get_at_tenant_scope
- Added operation DeploymentsOperations.export_template_at_tenant_scope
- Added operation DeploymentsOperations.validate_at_tenant_scope
- Added operation DeploymentsOperations.delete_at_tenant_scope
- Added operation DeploymentsOperations.export_template_at_scope
- Added operation DeploymentsOperations.validate_at_scope
- Added operation DeploymentsOperations.create_or_update_at_scope
- Added operation DeploymentsOperations.check_existence_at_tenant_scope
- Added operation DeploymentsOperations.check_existence_at_scope
- Added operation DeploymentsOperations.cancel_at_scope
- Added operation DeploymentsOperations.get_at_tenant_scope
- Added operation DeploymentsOperations.calculate_template_hash
- Added operation ProvidersOperations.list_at_tenant_scope
- Added operation ProvidersOperations.get_at_tenant_scope

**Breaking changes**

- Model DeploymentValidateResult no longer has parameter error
- Model ErrorResponse has a new signature

## 3.1.0 (2019-07-20)

**Features**
- Model TenantIdDescription has a new parameter domains
- Model TenantIdDescription has a new parameter display_name

## 3.0.0 (2019-06-13)

**Features**

- Model Provider has a new parameter registration_policy
- Model ProviderResourceType has a new parameter capabilities
- Model DeploymentOperationProperties has a new parameter duration
- Model DeploymentPropertiesExtended has a new parameter duration
- Added operation
  DeploymentOperations.get_at_management_group_scope
- Added operation
  DeploymentOperations.list_at_management_group_scope
- Added operation
  DeploymentsOperations.export_template_at_management_group_scope
- Added operation
  DeploymentsOperations.create_or_update_at_management_group_scope
- Added operation
  DeploymentsOperations.list_at_management_group_scope
- Added operation
  DeploymentsOperations.get_at_management_group_scope
- Added operation
  DeploymentsOperations.check_existence_at_management_group_scope
- Added operation
  DeploymentsOperations.cancel_at_management_group_scope
- Added operation
  DeploymentsOperations.delete_at_management_group_scope
- Added operation
  DeploymentsOperations.validate_at_management_group_scope
- Policy default API version is now 2018-05-01

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes if you were importing from the v20xx_yy_zz API folders. In summary, some modules were incorrectly visible/importable and have been renamed. This fixed several issues caused by usage of classes that were not supposed to be used in the first place.

The following applies for all client and namespaces, we take ResourceManagementClient and "resources" as example: - ResourceManagementClient cannot be imported from `azure.mgmt.resource.resources.v20xx_yy_zz.resource_management_client` anymore (import from `azure.mgmt.resource.resources.v20xx_yy_zz`)
works like before) - ResourceManagementClientConfiguration import has been moved from
`azure.mgmt.resource.resources.v20xx_yy_zz.resource_management_client`
to`azure.mgmt.resource.resources.v20xx_yy_zz` - A model `MyClass` from a "models" sub-module cannot be imported anymore using
`azure.mgmt.resource.resources.v20xx_yy_zz.models.my_class` (import from `azure.mgmt.resource.resources.v20xx_yy_zz.models` works like before) - An operation class `MyClassOperations` from an
`operations` sub-module cannot be imported anymore using
`azure.mgmt.resource.resources.v20xx_yy_zz.operations.my_class_operations`
(imports from `azure.mgmt.resource.resources.v20xx_yy_zz.operations` works like before)

Last but not least, HTTP connection pooling is now enabled by default. You should always use a client as a context manager, or call close(), or use no more than one client per process.

## 2.2.0 (2019-05-23)

**Features on Subscriptions**

- tenant_id is now returned part of the subscription information

**Features on Locks**

- Add list_by_scope

## 2.1.0 (2019-02-01)

**Features on Policy**

- New API version for Policy 2018-05-01
- Model PolicyAssignment has a new parameter location
- Model PolicyAssignment has a new parameter identity

## 2.0.0 (2018-07-20)

**Features**

- Identity class has now a user_assigned_identities attribute
- Client class can be used as a context manager to keep the underlying HTTP session open for performance

## 2.0.0rc2 (2018-06-13)

**Features on Policy**

- New API version for Policy 2018-03-01. This a merge of
**Features on Resources**

- Resources new Api Version 2018-05-01
- Model Deployment has a new parameter location
- Model DeploymentExtended has a new parameter location
- Added operation DeploymentsOperations.export_template_at_subscription_scope
- Added operation DeploymentsOperations.get_at_subscription_scope
- Added operation DeploymentsOperations.cancel_at_subscription_scope
- Added operation DeploymentsOperations.delete_at_subscription_scope
- Added operation DeploymentsOperations.create_or_update_at_subscription_scope
- Added operation DeploymentsOperations.validate_at_subscription_scope
- Added operation DeploymentsOperations.check_existence_at_subscription_scope
- Added operation DeploymentsOperations.list_at_subscription_scope
- Added operation DeploymentOperations.get_at_subscription_scope
- Added operation DeploymentOperations.list_at_subscription_scope

**Breaking changes on Resources**

- Operation DeploymentsOperations.create_or_update lost its ignored "location" parameter.
- Operation DeploymentsOperations.validate lost its ignored "location" parameter.

**Common features**

- Client class can be used as a context manager to keep the underlying HTTP session open for performance

## 2.0.0rc1 (2018-04-23)

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes.

- Model signatures now use only keyword-argument syntax. All positional arguments must be re-written as keyword-arguments. To keep auto-completion in most cases, models are now generated for Python 2 and Python 3. Python 3 uses the "*" syntax for keyword-only arguments.
- Enum types now use the "str" mixin (class AzureEnum(str, Enum)) to improve the behavior when unrecognized enum values are encountered. While this is not a breaking change, the distinctions are important, and are documented here:
  
  <https://docs.python.org/3/library/enum.html#others>

  At a glance:
  - "is" should not be used at all.
  - "format" will return the string value, where "%s" string formatting will return `NameOfEnum.stringvalue`. Format syntax should be preferred.

- New Long Running Operation:
  - Return type changes from
    `msrestazure.azure_operation.AzureOperationPoller` to
    `msrest.polling.LROPoller`. External API is the same.
  - Return type is now **always** a `msrest.polling.LROPoller`, regardless of the optional parameters used.
  - The behavior has changed when using `raw=True`. Instead of returning the initial call result as `ClientRawResponse`, without polling, now this returns an LROPoller. After polling, the final resource will be returned as a `ClientRawResponse`.
  - New `polling` parameter. The default behavior is
    `Polling=True` which will poll using ARM algorithm. When
    `Polling=False`, the response of the initial call will be returned without polling.
  - `polling` parameter accepts instances of subclasses of
    `msrest.polling.PollingMethod`.
  - `add_done_callback` will no longer raise if called after polling is finished, but will instead execute the callback right away.

**Features**

- Add new ApiVersion 2018-02-01 (new default):
  - Add on_error_deployment
  - Support MSI in generic ARM resources
  - All clients now support Azure profiles.
  - Add generic resources update (2017-05-10 and 2018-02-01)
  - Add version to Plan

**Bugfixes**

- Compatibility of the sdist with wheel 0.31.0

## 1.2.2 (2017-10-17)

**Bug fixes**

- Unicode strings are valid "subscription_id" in Python 2.7
- Added some deprecation warnings
## 1.2.1 (2017-10-06)

**Bugfixes**

- "Get" on unknown policy resources should raise and not return None

## 1.2.0 (2017-10-05)

**Features**

- Add validate_move_resources
- Add mode and metadata to PolicyDefinition
- Add policy_definitions.get_built_in
- Add policy_definitions.list_built_in
- Add policy_definitions.create_or_update_at_management_group
- Add policy_definitions.delete_at_management_group
- Add policy_definitions.get_at_management_group
- Add policy_definitions.list_by_management_group
- Add preview version of Policy 2017-06-01-preview:
  - Add policy_set_definitions operations group
  - Add policy set definitions to policy_assignments operations group
  - Add skus to policy assignment

**Bug fixes**

- Do not fail on 204 when deleting a policy assignment (2016-12-01)

**Breaking changes to preview clients**

- Major renaming into ManagedApplication client, and GA ApiVersion 2017-09-01

**Disclaimer**

- We removed the "filter" parameter of policy_definitions.list method. However, we don't upgrade the major version of the package, since this parameter has no meaning for the RestAPI and there is no way any Python users would have been able to use it anyway.

## 1.1.0 (2017-05-15)

- Tag 1.1.0rc2 as stable (same content)

## 1.1.0rc2 (2017-05-12)

- Add Policy ApiVersion 2015-10-01-preview (AzureStack default)
## 1.1.0rc1 (2017-05-08)

- New default ApiVersion is now 2017-05-10. Breaking changes described in 1.0.0rc3 are now applied by default.

## 1.0.0rc3 (2017-05-04)

**Bug fixes**

- Subscriptions: Removed deprecated tenant ID
- Managed Applications: All list methods return an iterator

**New Resources ApiVersion 2017-05-10**

- Deploy resources to multiple resource groups from one template

- Some breaking changes are introduced compared to previous versions:

  - deployments.list has been renamed
  - deployments.list_by_resource_group
  - resource_groups.list_resources has been moved to
  - resources.list_by_resource_group
  - resource_groups.patch has been renamed to
  - resource_groups.update and now takes an instance of ResourceGroupPatchable (and not ResourceGroup).

The default is still 2016-09-01 in this package, waiting for the ApiVersion to be widely available.

## 1.0.0rc2 (2017-05-02)

- Add Managed Applications client (preview)

## 1.0.0rc1 (2017-04-11)

**Bug fixes**

- tag_count is now correctly an int and not a string
- deployment_properties is now required for all deployments operations as expected

**Breaking Changes**

- Locks moves to a new ApiVersion and brings several consistent naming refactoring and new methods

**Features**
To help customers with sovereign clouds (not general Azure), this version has official multi ApiVersion support for the following resource type:

- Locks: 2015-01-01 and 2016-09-01
- Policy: 2016-04-01 and 2016-12-01
- Resources: 2016-02-01 and 2016-09-01

The following resource types support one ApiVersion:

- Features: 2015-12-01
- Links: 2016-09-01
- Subscriptions: 2016-06-01

## 0.31.0 (2016-11-10)

**Breaking change**

- Resource.Links 'create_or_update' method has simpler parameters

## 0.30.2 (2016-10-20)

**Features**

- Add Resource.Links client

## 0.30.1 (2016-10-17)

**Bugfixes**

- Location is now correctly declared optional and not required.

## 0.30.0 (2016-10-04)

- Preview release. Based on API version 2016-09-01.

## 0.20.0 (2015-08-31)

- Initial preview release. Based on API version 2014-04-01-preview

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
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1.840 shadow 4.6

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.844 zlib 1.2.5

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* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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1.866 commons-logging-jboss-logging
1.0.0.Final

1.867 metrics 3.2.5
1.868 glibc 2.27-3ubuntu1.4

1.868.1 Available under license:

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.880 typing-extensions 3.7.4.3

1.880.1 Available under license:

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnrri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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<td>2.1.1</td>
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**1.884 flink-java 1.11.0**

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# Contributions to the urllib3 project

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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
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  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravelosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL
* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
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* Evgeny Kapun <abacabababacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
* Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist
* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6
* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonk@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
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therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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engineering for debugging such modifications.

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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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* /opt/cola/permits/1141637011_1615091335.54/0/spring-orm-5-1-17-release-sources-
  jar/org/springframework/orm/jpa/persistenceunit/SmartPersistenceUnitInfo.java

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/**
* Create a transactional EntityManager proxy for the given EntityManagerFactory.
* @param emf the EntityManagerFactory to obtain EntityManagers from as needed
* @param properties the properties to be passed into the
* [%code createEntityManager] call (may be [%code null])
* @param entityManagerInterfaces the interfaces to be implemented by the
* EntityManager. Allows the addition or specification of proprietary interfaces.
* @return a shareable transactional EntityManager proxy
*/

Found in path(s):
* /opt/cola/permits/1141637011_1615091335.54/0/spring-orm-5-1-17-release-sources-jar/org/springframework/orm/jpa/SharedEntityManagerCreator.java
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1.902 wildfly-transaction-client 1.1.9.Final
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with the Library, with the complete machine-readable "work that
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that the user who changes the contents of definitions files in the
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copy of the library already present on the user's computer system,
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# Get modification time of a file or directory and pretty-print it.

scriptversion=2010-08-21.06: # UTC

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@item
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@end enumerate

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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[This is the first released version of the library GPL. It is
textually numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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<one line to give the library's name and a brief idea of what it does.>  
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
#! /usr/bin/env python
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#
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"""copyright.py
This script updates the list of years in the copyright notices in
most files maintained by the GDB project.
Usage: cd src/gdb && python copyright.py
Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""
import datetime
import os
import os.path
import subprocess

def get_update_list():
"""Return the list of files to update.

Open Source Used In SDWan 20.7.1 9640


Assumes that the current working directory when called is the root of the GDB source tree (NOT the gdb/ subdirectory!). The names of the files are relative to that root directory.

```python
result = []
for gdb_dir in ('gdb', 'sim', 'include/gdb'):
    for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
            reldirname = "%s/%s" % (root, dirname)
            if (dirname in EXCLUDE_ALL_LIST
                or reldirname in EXCLUDE_LIST
                or reldirname in NOT_FSF_LIST
                or reldirname in BY_HAND):
                # Prune this directory from our search list.
                dirs.remove(dirname)
        for filename in files:
            relpath = "%s/%s" % (root, filename)
            if (filename in EXCLUDE_ALL_LIST
                or relpath in EXCLUDE_LIST
                or relpath in NOT_FSF_LIST
                or relpath in BY_HAND):
                # Ignore this file.
                pass
            else:
                result.append(relpath)
return result
```

```python
def update_files(update_list):
    """Update the copyright header of the files in the given list.
    
    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import extra/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                        stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]
    # Process the output. Typically, a lot of files do not have
# a copyright notice :-(. The update-copyright script prints
# a well defined warning when it did not find the copyright notice.
# For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('n'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
some false positives. I do not think it will return any false
negatives... We might improve this function to handle more
complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
def main():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):  
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files(update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand."
        
        "\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print "  ", filename

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
    'gdb/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (  
  "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
  "fdl.texi", "gpl.texi", "aecclocal.m4",  
  )

# The list of files to update by hand.
BY_HAND = (  
  # These files are sensitive to line numbering.  
  "gdb/testsuite/gdb.base/step-line.inp",  
  "gdb/testsuite/gdb.base/step-line.c",  
  )

# Files containing multiple copyright headers. This script is only  
# fixing the first one it finds, so we need to finish the update  
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (  
  "gdb/doc/gdb.texinfo",  
  "gdb/doc/refcard.tex",  
  "gdb/gdbarch.sh",  
  )

# The list of file which have a copyright, but not head by the FSF.  
# Filenames are relative to the root directory.
NOT_FSF_LIST = (  
  "gdb/exc_request.defs",  
  "gdb/gdbtk",  
  "gdb/testsuite/gdb.gdbtk/",  
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",  
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",  
  "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",  
  "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",  
  "sim/arm/armoptxs.h", "sim/arm/dbg_cpp.h", "sim/arm/dbg_rdi.h",  
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",  
  "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",  
  "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",  
  "sim/arm/arminit.c",  
  "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",  
  "sim/common/cgen-acccfp.c",  
  "sim/mips/m16run.c", "sim/mips/sim-main.c",  
  "sim/moxie/moxie-gdb.dts",  
  # Not a single file in sim/ppc/ appears to be copyright FSF :-(.  
  "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",  
  "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",  
  "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",  
  "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",  
  "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",  
  "sim/ppc/emu_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",  
  )
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/id insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()
BEGIN{
    FS="\"";
    print "/* ==> Do not modify this file!!  */
    "+ buffer-read-only: t -*. vi"\"
    "+set ro;"
    print " It is created automatically by copying.awk.";
print "  Modify copying.awk instead. <= */;"
print ""
print "#include \"defs.h\""
print "#include \"command.h\""
print "#include \"gdbcmd.h\""
print ""
print "static void show_copying_command (char *, int);"
print ""
print "static void show_warranty_command (char *, int);"
print ""
print "void _initialize_copying (void);"
print ""
print "static void";
print "show_copying_command (char *ignore, int from_tty);"
print "{
"
NR == 1;/^[ ]*15\. Disclaimer of Warranty\/ ]*$/{
if ($0 ~ //)
{
    printf "  printf_filtered (\"\n\n\n\n"; }
else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\/ ]*$/)
{
    printf "  printf_filtered (";
    for (i = 1; i < NF; i++)
printf "%s\", $i;
    printf "%s\n\n\n", $NF; }
}

/^[ ]*15\. Disclaimer of Warranty\/ ]*$/{
print ""
print ""
print "static void";
print "show_warranty_command (char *ignore, int from_tty);"
print "[
"
/^[ ]*15\. Disclaimer of Warranty\/ ]*$/, /^[ ]*END OF TERMS AND CONDITIONS/ ]*$/{
if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS/ ]*$/))
{
    printf "  printf_filtered (";
    for (i = 1; i < NF; i++)
printf "%s\", $i;
    printf "%s\n\n\n", $NF; }
}

END{
print "\n"
print ""
print "void"
print " _initialize_copying (void)";
print "{";
print " add_cmd ("copying", no_set_class, show_copying_command,);
print " _("Conditions for redistributing copies of GDB."),
print " &showlist);";
print " add_cmd ("warranty", no_set_class, show_warranty_command,
print " _("Various kinds of warranty you do not have."),
print " &showlist);";
print " ";
print " /* For old-timers, allow "info copying", etc. */
print " add_info ("copying", show_copying_command,;
print " _("Conditions for redistributing copies of GDB."));";
print " add_info ("warranty", show_warranty_command,
print " _("Various kinds of warranty you do not have."));";
print " }");

1.907 native-lib-loader 2.0.2
1.907.1 Available under license:
No license file was found, but licenses were detected in source scan.

/*
Native library loader for extracting and loading native libraries from Java.

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*/

Found in path(s):
* /opt/cola/permits/1136132045_1613687322.17/0/native-lib-loader-2.0.2-sources-1-
jar/org/scijava/nativelib/MxSysInfo.java
* /opt/cola/permits/1136132045_1613687322.17/0/native-lib-loader-2.0.2-sources-1-
jar/org/scijava/nativelib/BaseJniExtractor.java
* /opt/cola/permits/1136132045_1613687322.17/0/native-lib-loader-2.0.2-sources-1-
jar/org/scijava/nativelib/NativeLibraryUtil.java
* /opt/cola/permits/1136132045_1613687322.17/0/native-lib-loader-2.0.2-sources-1-
jar/org/scijava/nativelib/NativeLoader.java
* /opt/cola/permits/1136132045_1613687322.17/0/native-lib-loader-2.0.2-sources-1-
jar/org/scijava/nativelib/JniExtractor.java
* /opt/cola/permits/1136132045_1613687322.17/0/native-lib-loader-2.0.2-sources-1-
jar/org/scijava/nativelib/WebappJniExtractor.java
* /opt/cola/permits/1136132045_1613687322.17/0/native-lib-loader-2.0.2-sources-1-
jar/org/scijava/nativelib/DefaultJniExtractor.java

1.908 opensaml-messaging-api 3.3.0

1.909 antlr-runtime 4.5.3

1.910 nss 3.44.0-4.el7_7

1.910.1 Available under license :
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==================================

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>
* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>
</xsl:stylesheet>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.915 pcre 48.41
1.915.1 Available under license :
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---------

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1.917 init-system-helpers 1.51
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1.918 pyliblzma 0.5.3 11.el7
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**1.919 webencodings 0.5.1**

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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_DEFINED.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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from setuptools import setup, find_packages
import io
import os
import re

VERSION = re.search("VERSION = '(\w+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8').read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8').read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
    ]
)
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/setup.py
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```python
webencodings.mklables
~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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```
LABELS = {
    "
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
        repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s %s, %s (label, name) %s
        for label, name in labels)
    parts.append('')
    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
In order to be compatible with legacy web content when interpreting something like `Content-Type: text/html; charset=latin1`, tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, `US-ASCII` and `iso-8859-1` on the web are actually aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration. The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

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python-webencodings

This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

---

* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+
In order to be compatible with legacy web content when interpreting something like `Content-Type: text/html; charset=latin1`, tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, `US-ASCII` and `iso-8859-1` on the web are actually aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration. The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python.

1.920 lucene-analyzers-common 8.5.1

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxrs-api

## Third-party Content

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.925 diffutils 3.3-3

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1.929 pycparser 2.18

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  pycparser -- A C parser in Python

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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/HotSwapper.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationImpl.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/ClassClassPath.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java
1.937 six 1.14.0

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1.938 kerberos 1.13.2+dfsg 5ubuntu2.1

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cmd/krb5/iprop/iprop.x
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cmd/krb5/iprop/iprop_hdr.h
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```
cmd/krb5/kadmin/server/ipropd_svc.c
```
```
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
```
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```
```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
```
```
lib/krb5/kdb/kdb_convert.c
```
```
lib/krb5/kdb/kdb_hdr.h
```
```
lib/krb5/kdb/kdb_log.c
```
```
lib/krb5/kdb/kdb_log.h
```
```
lib/libgss/g_accept_sec_context.c
```
```
lib/libgss/g_acquire_cred.c
```
```
lib/libgss/g_canon_name.c
```
```
lib/libgss/g_compare_name.c
```
```
lib/libgss/g_context_time.c
```
```
lib/libgss/g_delete_sec_context.c
```
```
lib/libgss/g_dsp_name.c
```
```
lib/libgss/g_dsp_status.c
```
```
lib/libgss/g_dup_name.c
```
```
lib/libgss/g_exp_sec_context.c
```
```
lib/libgss/g_export_name.c
```
```
lib/libgss/g_glue.c
```
```
lib/libgss/g_imp_name.c
```
```
lib/libgss/g_imp_sec_context.c
```
```
lib/libgss/g_init_sec_context.c
```
```
lib/libgss/g_initialize.c
```
```
lib/libgss/g_inquire_context.c
```
```
lib/libgss/g_inquire_cred.c
```
```
lib/libgss/g_inquire_names.c
```
```
lib/libgss/g_process_context.c
```
```
lib/libgss/g_rel_buffer.c
```
```
lib/libgss/g_rel_cred.c
```
```
lib/libgss/g_rel_name.c
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```
src/lib/gssapi
```
including the following files:
class="n">g_init_sec_context</span><span class="c">.</span><span class="n">c</span> 
lib/gssapi/mechglue/g_initialize.c 
lib/gssapi/mechglue/g_inquire_context.c 
lib/gssapi/mechglue/g_inquire_cred.c 
lib/gssapi/mechglue/g_inquire_names.c 
lib/gssapi/mechglue/g_process_context.c 
lib/gssapi/mechglue/g_rel_buffer.c 
lib/gssapi/mechglue/g_rel_cred.c 
lib/gssapi/mechglue/g_rel_name.c 
lib/gssapi/mechglue/g_rel_oid_set.c 
lib/gssapi/mechglue/g_seal.c 
lib/gssapi/mechglue/g_sign.c 
lib/gssapi/mechglue/g_store_cred.c 
lib/gssapi/mechglue/g_unseal.c 
lib/gssapi/mechglue/g_userok.c 
lib/gssapi/mechglue/g_utils.c 
lib/gssapi/mechglue/mecghlue.c
and the initial implementation of incremental propagation, including
the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/kdb/kdb_log.h
- lib/krb5/error_tables/kdb5_err.et
- kprop/kpropd_rpc.kpropd_rpc
- kprop/kpropd_rpc.kproplog

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.. parsed-literal::

   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
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the following new or changed files:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/prop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
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- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
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and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line
# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*-.' and we don't want to change them.
    if line != '' and line != '-
    text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* \([^ ]\)*\([^ ]\)* ( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\s*\*\s*\*/', '', line)
            line = line.strip()
        if not in_comment and '/\*\n
        if not in_comment and '/\*

        comment = [comment_part.strip()]
        comment_starts_at = ln
in_comment = True
else in_comment and "*/" not in line:
    comment.append(line.lstrip().rstrip().lstrip())
else in_comment:
    (comment_part, sep, line) = line.partition("*/")
    comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                                code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() != "":
    code_seen = True

In += 1

for fname in sys.argv[1:]:
    if fname.startswith('./ '):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */ 

#include <config.h>  
#include <stdio.h>  
#include <sys/types.h>  
#include <pwd.h>  
#include <grp.h> 

#include "system.h"  
#include "chown-core.h"  
#include "error.h"  
#include "ignore-value.h"  
#include "quote.h"  
#include "root-dev-ino.h"  
#include "xfts.h" 

#define FTSENT_IS_DIRECTORY(E) 
        ((E)->fts_info == FTS_D 
          || (E)->fts_info == FTS_DC 
          || (E)->fts_info == FTS_DP 
          || (E)->fts_info == FTS_DNR) 

enum RCH_status 
{ 
    /* we called fchown and close, and both succeeded */ 
    RC_ok = 2, 

    /* required_uid and/or required_gid are specified, but don't match */ 
    RC_excluded, 

    /* SAME_INODE check failed */ 
}
RC_inode_changed,

/* open/fchown isn't needed, isn't safe, or doesn't work due to
   permissions problems; fall back on chown */
RC_do_ordinary_chown,

/* open, fstat, fchown, or close failed */
RC_error
;

extern void
chopt_init (struct Chown_option *chopt)
{
    chopt->verbosity = V_off;
    chopt->root_dev_ino = NULL;
    chopt->affect_symlink_referent = true;
    chopt->recurse = false;
    chopt->force_silent = false;
    chopt->user_name = NULL;
    chopt->group_name = NULL;
}

extern void
chopt_free (struct Chown_option *chopt _GL_UNUSED)
{
    /* Deliberately do not free chopt->user_name or ->group_name.
       They're not always allocated.  */
}

/* Convert the numeric group-id, GID, to a string stored in xmalloc'd memory,
   and return it.  If there's no corresponding group name, use the decimal
   representation of the ID.  */
extern char *
 gid_to_name (gid_t gid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct group *grp = getgrgid (gid);
    return xstrdup (grp ? grp->gr_name
        : TYPE_SIGNED (gid_t) ? imaxtostr (gid, buf)
         : umaxtostr (gid, buf));
}

/* Convert the numeric user-id, UID, to a string stored in xmalloc'd memory,
   and return it.  If there's no corresponding user name, use the decimal
   representation of the ID.  */
extern char *
uid_to_name (uid_t uid)
{
char buf[INT_BUFSIZE_BOUND (intmax_t)];
struct passwd *pwd = getpwuid (uid);
return xstrdup (pwd ? pwd->pw_name
: TYPE_SIGNED (uid_t) ? imaxtostr (uid, buf)
: umaxtostr (uid, buf));
}
/* Allocate a string representing USER and GROUP. */
static char *
user_group_str (char const *user, char const *group)
{
char *spec = NULL;
if (user)
{
if (group)
{
spec = xmalloc (strlen (user) + 1 + strlen (group) + 1);
stpcpy (stpcpy (stpcpy (spec, user), ":"), group);
}
else
{
spec = xstrdup (user);
}
}
else if (group)
{
spec = xstrdup (group);
}
return spec;
}
/* Tell the user how/if the user and group of FILE have been changed.
If USER is NULL, give the group-oriented messages.
CHANGED describes what (if anything) has happened. */
static void
describe_change (const char *file, enum Change_status changed,
char const *old_user, char const *old_group,
char const *user, char const *group)
{
const char *fmt;
char *old_spec;
char *spec;

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if (changed == CH_NOT_APPLIED)
{
    printf (_("neither symbolic link %s nor referent has been changed\n"), quote (file));
    return;
}

spec = user_group_str (user, group);
old_spec = user_group_str (user ? old_user : NULL, group ? old_group : NULL);

switch (changed)
{
    case CH_SUCCEEDED:
        fmt = (user ? _("changed ownership of %s from %s to %s\n")
            : group ? _("changed group of %s from %s to %s\n")
            : _("no change to ownership of %s\n"));
        break;
    case CH_FAILED:
        if (old_spec)
            fmt = (user ? _("failed to change ownership of %s from %s to %s\n")
                : group ? _("failed to change group of %s from %s to %s\n")
                : _("failed to change ownership of %s\n"));
        else
            fmt = (user ? _("failed to change ownership of %s to %s\n")
                : group ? _("failed to change group of %s to %s\n")
                : _("failed to change ownership of %s\n"));
        free (old_spec);
        old_spec = spec;
        spec = NULL;
        break;
    case CH_NO_CHANGE_REQUESTED:
        fmt = (user ? _("ownership of %s retained as %s\n")
            : group ? _("group of %s retained as %s\n")
            : _("ownership of %s retained\n"));
        break;
    default:
        abort ();
}

printf (fmt, quote (file), old_spec, spec);

free (old_spec);
free (spec);
/* Change the owner and/or group of the FILE to UID and/or GID (safely)
only if REQUIRED_UID and REQUIRED_GID match the owner and group IDs
of FILE. ORIG_ST must be the result of 'stat'ing FILE.

The 'safely' part above means that we can't simply use chown(2),
since FILE might be replaced with some other file between the time
of the preceding stat/lstat and this chown call. So here we open
FILE and do everything else via the resulting file descriptor.
We first call lstat and verify that the dev/inode match those from
the preceding stat call, and only then, if appropriate (given the
required_uid and required_gid constraints) do we call fchown.

Return RC_do_ordinary_chown if we can't open FILE, or if FILE is a
special file that might have undesirable side effects when opening.
In this case the caller can use the less-safe ordinary chown.

Return one of the RCH_status values. */

static enum RCH_status
restricted_chown (int cwd_fd, char const *file,
struct stat const *orig_st,
uid_t uid, gid_t gid,
uid_t required_uid, gid_t required_gid)
{
enum RCH_status status = RC_ok;
struct stat st;
int open_flags = O_NONBLOCK | O_NOCTTY;
int fd;

if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1)
    return RC_do_ordinary_chown;

if (! S_ISREG (orig_st->st_mode))
    {
    if (S_ISDIR (orig_st->st_mode))
        open_flags |= O_DIRECTORY;
    else
        return RC_do_ordinary_chown;
    }

fd = openat (cwd_fd, file, O_RDONLY | open_flags);
if (! (0 <= fd
    || (errno == EACCES && S_ISREG (orig_st->st_mode)
        && 0 <= (fd = openat (cwd_fd, file, O_WRONLY | open_flags))))))
    return (errno == EACCES ? RC_do_ordinary_chown : RC_error);
if (fstat (fd, &st) != 0)
    status = RC_error;
else if (! SAME_INODE (*orig_st, st))
    status = RC_inode_changed;
else if ((required_uid == (uid_t) -1 || required_uid == st.st_uid)
        && (required_gid == (gid_t) -1 || required_gid == st.st_gid))
    {  
        if (fchown (fd, uid, gid) == 0)
        {
            status = (close (fd) == 0
                ? RC_ok : RC_error);
            return status;
        }
        else
        {
            status = RC_error;
        }
    }

int saved_errno = errno;
close (fd);
errno = saved_errno;
return status;

/* Change the owner and/or group of the file specified by FTS and ENT
to UID and/or GID as appropriate.
 If REQUIRED_UID is not -1, then skip files with any other user ID.
 If REQUIRED_GID is not -1, then skip files with any other group ID.
 CHOPT specifies additional options.
 Return true if successful. */
static bool
change_file_owner (FTS *fts, FTSENT *ent,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid,
    struct Chown_option const *chopt)
{
    char const *file_full_name = ent->fts_path;
    char const *file = ent->fts_accpath;
    struct stat const *file_stats;
    struct stat stat_buf;
    bool ok = true;
    bool do_chown;
    bool symlink_changed = true;

    switch (ent->fts_info)
    {
    case FTS_D:
if (chopt->recurse)
{
    if (ROOT_DEV_INO_CHECK (chopt->root_dev_ino, ent->fts_statp))
    {
        /* This happens e.g., with "chown -R --preserve-root 0 /"
            and with "chown -RH --preserve-root 0 symlink-to-root". */
        ROOT_DEV_INO_WARN (file_full_name);
        /* Tell fts not to traverse into this hierarchy. */
        fts_set (fts, ent, FTS_SKIP);
        /* Ensure that we do not process "/" on the second visit. */
        ignore_value (fts_read (fts));
        return false;
    }
    return true;
}
break;

case FTS_DP:
    if (! chopt->recurse)
        return true;
    break;

case FTS_NS:
    /* For a top-level file or directory, this FTS_NS (stat failed)
       indicator is determined at the time of the initial fts_open call.
       With programs like chmod, chown, and chgrp, that modify
       permissions, it is possible that the file in question is
       accessible when control reaches this point. So, if this is
       the first time we've seen the FTS_NS for this file, tell
       fts_read to stat it "again". */
    if (ent->fts_level == 0 && ent->fts_number == 0)
    {
        ent->fts_number = 1;
        fts_set (fts, ent, FTS_AGAIN);
        return true;
    }
    if (! chopt->force_silent)
        error (0, ent->fts_errno, _("cannot access %s"),
               quote (file_full_name));
    ok = false;
    break;

case FTS_ERR:
    if (! chopt->force_silent)
        error (0, ent->fts_errno, "%s", quote (file_full_name));
    ok = false;
    break;
case FTS_DNR:
    if (! chopt->force_silent)
        error (0, ent->fts_errno, "cannot read directory %s",
                quote (file_full_name));
    ok = false;
    break;

case FTS_DC: /* directory that causes cycles */
    if (cycle_warning_required (fts, ent))
        {
            emit_cycle_warning (file_full_name);
            return false;
        }
    break;

default:
    break;
}

if (!ok)
    {
    do_chown = false;
    file_stats = NULL;
    }
else if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1
         && chopt->verbosity == V_off
         && ! chopt->root_dev_ino
         && ! chopt->affect_symlink_referent)
    {
    do_chown = true;
    file_stats = ent->fts_statp;
    }
else
    {
    file_stats = ent->fts_statp;

  /* If this is a symlink and we're dereferencing them,
   * stat it to get info on the referent.  */
  if (chopt->affect_symlink_referent && S_ISLNK (file_stats->st_mode))
      {
      if (fstatat (fts->fts_cwd_fd, file, &stat_buf, 0) != 0)
          {
          if (! chopt->force_silent)
              error (0, errno, "cannot dereference %s",
                        quote (file_full_name));
          ok = false;
          }
      }
file_stats = &stat_buf;

do_chown = (ok
    && (required_uid == (uid_t) -1
        || required_uid == file_stats->st_uid)
    && (required_gid == (gid_t) -1
        || required_gid == file_stats->st_gid));

/* This happens when chown -LR --preserve-root encounters a symlink-to/. */
if (ok
    && FTSENT_IS_DIRECTORY (ent)
    && ROOT_DEV_INO_CHECK (chopt->root_dev_ino, file_stats))
{
    ROOT_DEV_INO_WARN (file_full_name);
    return false;
}

if (do_chown)
{
    if ( ! chopt->affect_symlink_referent)
    {
        ok = (lchownat (fts->fts_cwd_fd, file, uid, gid) == 0);

        /* Ignore any error due to lack of support; POSIX requires
         * this behavior for top-level symbolic links with -h, and
         * implies that it's required for all symbolic links. */
        if (!ok && errno == EOPNOTSUPP)
        {
            ok = true;
            symlink_changed = false;
        }
    }
    else
    {
        /* If possible, avoid a race condition with --from=O:G and without the
         * (-h) --no-dereference option. If fts's stat call determined
         * that the uid/gid of FILE matched the --from=O:G-selected
         * owner and group IDs, blindly using chown(2) here could lead
         * chown(1) or chgrp(1) mistakenly to dereference a *symlink*
         * to an arbitrary file that an attacker had moved into the
         * place of FILE during the window between the stat and
         * chown(2) calls. If FILE is a regular file or a directory
         * that can be opened, this race condition can be avoided safely. */

        enum RCH_status err
            = restricted_chown (fts->fts_cwd_fd, file, file_stats, uid, gid,
switch (err) {
    case RC_ok:
        break;
    case RC_do_ordinary_chown:
        ok = (chownat (fts->fts_cwd_fd, file, uid, gid) == 0);
        break;
    case RC_error:
        ok = false;
        break;
    case RC_inode_changed:
        /* FIXME: give a diagnostic in this case? */
        case RC_excluded:
            do_chown = false;
            ok = false;
            break;
    default:
        abort ();
        break;
}

/* On some systems (e.g., GNU/Linux 2.4.x), the chown function resets the 'special' permission bits. Do *not* restore those bits; doing so would open a window in which a malicious user, M, could subvert a chown command run by some other user and operating on files in a directory where M has write access. */

if (do_chown && !ok && ! chopt->force_silent)
    error (0, errno, (uid != (uid_t) -1
        ? _("changing ownership of %s")
        : _("changing group of %s")),
        quote (file_full_name));
}

if (chopt->verbosity != V_off)
{
    bool changed =
        ((do_chown && ok && symlink_changed)
        && ! ((uid == (uid_t) -1 || uid == file_stats->st_uid)
            && (gid == (gid_t) -1 || gid == file_stats->st_gid)));
        if (changed || chopt->verbosity == V_high)
{  
enum Change_status ch_status =  
  (!ok ? CH_FAILED  
   : !symlink_changed ? CH_NOT_APPLIED  
   : !changed ? CH_NO_CHANGE_REQUESTED  
   : CH_SUCCEEDED);  
char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;  
char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;  
describe_change (file_full_name, ch_status,  
  old_usr, old_grp,  
  chopt->user_name, chopt->group_name);  
  free (old_usr);  
  free (old_grp);  
}

if ( ! chopt->recurse)  
  fts_set (fts, ent, FTS_SKIP);

return ok;
}

/* Change the owner and/or group of the specified FILES.  
   BIT_FLAGS specifies how to treat each symlink-to-directory  
   that is encountered during a recursive traversal.  
   CHOPT specifies additional options.  
   If UID is not -1, then change the owner id of each file to UID.  
   If GID is not -1, then change the group id of each file to GID.  
   If REQUIRED_UID and/or REQUIRED_GID is not -1, then change only  
   files with user ID and group ID that match the non-(-1) value(s).  
   Return true if successful.  */
extern bool  
chown_files (char **files, int bit_flags,  
  uid_t uid, gid_t gid,  
  uid_t required_uid, gid_t required_gid,  
  struct Chown_option const *chopt)  
{
  bool ok = true;

  /* Use lstat and stat only if they're needed.  */
  int stat_flags = ((required_uid != (uid_t) -1 || required_gid != (gid_t) -1  
    || chopt->affect_symlink_referent  
    || chopt->verbosity != V_off)  
  ? 0  
  : FTS_NOSTAT);  

  FTS *fts = xfts_open (files, bit_flags | stat_flags, NULL);  
}
while (1)
{
FTSENT *ent;
ent = fts_read (fts);
if (ent == NULL)
{
if (errno != 0)
{
/* FIXME: try to give a better message */
if (! chopt->force_silent)
error (0, errno, _("fts_read failed"));
ok = false;
}
break;
}
ok &= change_file_owner (fts, ent, uid, gid,
required_uid, required_gid, chopt);
}
if (fts_close (fts) != 0)
{
error (0, errno, _("fts_close failed"));
ok = false;
}
return ok;
}
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.
Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.959 picketlink-idm-impl 2.5.5.SP12-redhat-00006

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License for more details. * You should have received a copy of the GNU Lesser General Public'
* `<code>`String encoded = Base64.encode( myByteArray );</code>*
* `<br>`
* `<code>`byte[] myByteArray = Base64.decode( encoded );</code>*

* `<p>`The `<tt>`options</tt>` parameter, which appears in a few places, is used to pass
* several pieces of information to the encoder. In the "higher level" methods such as
* `encodeBytes( bytes, options )` the options parameter can be used to indicate such
* things as first gzipping the bytes before encoding them, not inserting linefeeds,
* and encoding using the URL-safe and Ordered dialects.</p>*

* `<p>`Note, according to a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>,
* Section 2.1, implementations should not add line feeds unless explicitly told
* to do so. I've got Base64 set to this behavior now, although earlier versions
* broke lines by default.</p>*

* `<p>`The constants defined in Base64 can be OR-ed together to combine options, so you
* might make a call like this:</p>*

* `<code>`String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>`
* `<p>`to compress the data before encoding it and then making the output have newline characters.</p>*
* `<p>`Also...</p>*

* `<code>`String encoded = Base64.encodeBytes( crazyString.getBytes() );</code>`

* `<p>`Change Log:
* </p>`
* `<ul>`
* `<li>`v2.3.7 - Fixed subtle bug when base 64 input stream contained the
* value 01111111, which is an invalid base 64 character but should not
* throw an `ArrayIndexOutOfBoundsException` either. Led to discovery of
* mishandling (or potential for better handling) of other bad input
* characters. You should now get an `IOException` if you try decoding
* something that has bad characters in it.</li>`
* `<li>`v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded
* string ended in the last column; the buffer was not properly shrunk and
* contained an extra (null) byte that made it into the string.</li>`
* `<li>`v2.3.5 - Fixed bug in `@link #encodeFromFile` where estimated buffer size
* was wrong for files of size 31, 34, and 37 bytes.</li>`
* `<li>`v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
* the Base64OutputStream closed the Base64 encoding (by padding with equals
* signs) too soon. Also added an option to suppress the automatic decoding
* of gzipped streams. Also added experimental support for specifying a
* class loader when using the
* `@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)`
* method.</li>`
* `<li>`v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java
* footprint with its CharEncoders and so forth. Fixed some javadocs that were
* inconsistent. Removed imports and specified things like java.io.IOException
* explicitly inline.</li>
* </li><li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the
* final encoded data will be so that the code doesn't have to create two output
* arrays: an oversized initial one and then a final, exact-sized one. Big win
* when using the [@link #encodeBytesToBytes(byte[]) family of methods (and not
* using the gzip options which uses a different mechanism with streams and stuff)].</li>
* </li><li>v2.3.1 - Added [@link #encodeBytesToBytes(byte[], int, int, int}] and some
* similar helper methods to be more efficient with memory by not returning a
* String but just a byte array.</li>
* </li><li>v2.3 - This is not a drop-in replacement! This is two years of comments
* and bug fixes queued up and finally executed. Thanks to everyone who sent
* me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
* Much bad coding was cleaned up including throwing exceptions where necessary
* instead of returning null values or something similar. Here are some changes
* that may affect you:
* </li>
* </ul>
* </li><em>Does not break lines, by default. This is to keep in compliance with</em>
* </li><em>Throws exceptions instead of returning null values.</em> Because some operations
* (especially those that may permit the GZIP option) use IO streams, there
* is a possibility of an java.io.IOException being thrown. After some discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOExceptions
* rather than return null if ever there's an error. I think this is more
* appropriate, though it will require some changes to your code. Sorry,
* it should have been done this way to begin with.</li>
* </li><em>Removed all references to System.out, System.err, and the like.</em></li>
* Shame on me. All I can say is sorry they were ever there.</li>
* </li><em>Throws NullPointerExceptions and IllegalArgumentExceptions</em> as needed
* such as when passed arrays are null or offsets are invalid.</li>
* </li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.
* This was especially annoying before for people who were thorough in their
* own projects and then had gobs of javadoc warnings on this file.</li>
* </ul>
* </li><li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~<&lt; 40 bytes). </li>
* </li><li>v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* </li>
* </ol>
* The default is RFC3548 format.</li>
* </li><li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
* URL and file name friendly format as described in Section 4 of RFC3548.</li>
* </li><li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
* URL and file name friendly format that preserves lexical ordering as described
* in [http://www.faqs.org/qa/rfcc-1940.html](http://www.faqs.org/qa/rfcc-1940.html)
* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
  * some convenience methods for reading and writing to and from files.
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
  * with other encodings (like EBCDIC).
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the
  * encoded data was a single byte.
* v2.0 - I got rid of methods that used booleans to set options.
  * Now everything is more consolidated and cleaner. The code now detects
  * when data that's being decoded is gzip-compressed and will decompress it
  * automatically. Generally things are cleaner. You'll probably have to
  * change some method calls that you were making to support the new
  * options format (<tt>int</tt>s that you "OR" together).
* v1.5.1 - Fixed bug when decompressing and decoding to a
  * byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.
  * Added the ability to "suspend" encoding in the Output Stream so
  * you can turn on and off the encoding if you need to embed base64
  * data in an otherwise "normal" stream (like an XML file).
* v1.5 - Output stream passes on flush() command but doesn't do anything itself.
  * This helps when using GZIP streams.
  * Added the ability to GZip-compress objects before encoding them.
* v1.4 - Added helper methods to read/write files.
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
  * where last buffer being read, if not completely full, was not returned.
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.

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* Please visit &lt;a href="http://iharder.net/base64">http://iharder.net/base64</a>
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@version 2.3.7
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* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-
  jar/com/twitter/chill/java/UnmodifiableSetSerializer.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-
  jar/com/twitter/chill/java/UnmodifiableJavaCollectionSerializer.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-
  jar/com/twitter/chill/java/UnmodifiableSortedMapSerializer.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-
  jar/com/twitter/chill/java/UnmodifiableMapSerializer.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-
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* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Publisher.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/FlowAdapters.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Processor.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Subscription.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Subscriber.java

1.969 tomcat-embed-el 9.0.37
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1.974 opensaml-soap-impl 3.3.0

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Eclipse Collections API
Eclipse Distribution License - v 1.0
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1.979 fast-infoset 1.2.15

1.980 neo4j-exceptions 4.1.7

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

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import java.util.Map;
import com.sun.tools.doclets.Taglet;
import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }
}
public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet;
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright ª " + tags[i].text() + "</i></dt>");
                }
            result.append("</dl>");
            return result.toString();
        }
        else {
            return null;
        }
    }
}

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;
class PermissionCollection;
}
}
}

class java::security::Permission : public java::lang::Object
{

public:
 Permission(::java::lang::String *);
 virtual void checkGuard(::java::lang::Object *
);
 virtual jboolean implies(::java::security::Permission *) = 0;
 virtual jboolean equals(::java::lang::Object *) = 0;
 virtual jint hashCode() = 0;
 virtual ::java::lang::String * getName();
 virtual ::java::lang::String * getActions() = 0;
 virtual ::java::security::PermissionCollection * newPermissionCollection();
 virtual ::java::lang::String * toString();

private:
 static const jlong serialVersionUID = -5636570222231596674LL;
 ::java::lang::String *__attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
};

#endif // __java_security_Permission__
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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license document, but changing it is not allowed.
@c man end
@end ignore
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
@c This file is intended to be included in another file.
@display
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import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

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 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+
     */
    private static final long serialVersionUID = -5636570222231596674L;
private String name;

public Permission(String name) {
    this.name = name;
}

public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

public abstract boolean implies(Permission perm);

public abstract boolean equals(Object obj);
/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}
/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 *  + ')</code>.
 *
 * @return this object as a <code>String</code>
 */

public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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Version 2.1, February 1999

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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The "Compilation Process” transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

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#!/usr/bin/python
#
# Copyright (C) 2013-2016 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3.  This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices.  Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted.  You can instead pass the names of individual
# directories, including those that haven't been approved.  So:
#
#   update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years).  On the other hand:
#
#   update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run.  There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ' ' + string
        sys.stderr.write(string + 'n')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['#
', '# Skip licence files.
', 'COPYING',
', COPYING.LIB',
', COPYING3',
', COPYING3.LIB',
', LICENSE',
', 'fdl.texi',
', 'gpl_v3.texi',
', 'fdl-1.3.xml',
', 'gpl-3.0.xml',

', '# Skip auto- and libtool-related files
', 'aclocal.m4',
', 'compile',
', 'config-guess',
', 'config.sub',
', 'depcomp',
', 'install-sh',
', 'libtool.m4',
', 'ltmain.sh',
', 'ltoptions.m4',
', 'ltshugar.m4',

'])
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'\t')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
return True
    if os.path.exists (base + '.in'):
        return True
    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years.  Include '.' for typos.
        ranges = '[0-9](?:[-0-9,.\s]\s*|\s+and\s+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[][\w.,-]'

        # Matches one year.
        self.year_re = re.compile ('^[0-9]+$')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  
            # 1: 'Copyright (C)', etc.
            '(C|Copyright'  
            )  
            '[Cc]opyright\s+\{|\(\)\)'  
            '[Cc]opyright\s+\%s'  
            '[Cc]opyright\s+&copy;'  
            '[Cc]opyright\s+@copyright\{\}'  
            'copyright = u\''  
            '@set\s+copyright[\w-]+)'  

        # 2: the years.  Include the whitespace in the year, so that
# we can remove any excess.
'\s*(?:' + ranges + '.?')
'[@value\{[^{}]*\})s*']

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\s? + name + "\s? + name + "))?'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = [ '@copying': '@copying' ]
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.'
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year
def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
holder = match.group (4)
return (holder
    and (holder not in self.holder_prefixes
         or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set '):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
            'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn’t look like a proper continuation,
            # assume that what we’ve got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match (line, match.start())
            assert match

            holder = match.group (4)

            # Use the filter to test cases where markup is getting in the way.
            if filter.by_package_author (dir, filename):
                assert holder not in self.holders
elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
                        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'

    return (line != orig_line, line, next_line)
def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search(line):
                        self.errors.report(pathname,
                                           'unrecognised copyright: %s'
                                           % line.strip())
                        lines.append(line)
                        line = next_line
                # If something changed, write the new file out.
                if changed and self.errors.ok():
                    tmp_pathname = pathname + '.tmp'
                    with open(tmp_pathname, 'w') as file:
                        for line in lines:
                            file.write(line)
                        if self.use_quilt:
                            subprocess.call(['quilt', 'add', pathname])
                        os.rename(tmp_pathname, pathname)
    def process_tree(self, tree, filter):
        for (dir, subdirs, filenames) in os.walk(tree):
            for dir, subdirs, filenames in os.walk(tree):
                for (dir, subdirs, filenames) in os.walk(tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
    if filter.skip_dir (dir, subdirs[i]):
        del subdirs[i]

# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
def __init__ (self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []

    self.add_option ('--help', 'Print this help', self.o_help)
    self.add_option ('--quilt', '"quilt add" files before changing them',
        self.o_quilt)
    self.add_option ('--this-year', 'Add the current year to every notice',
        self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    format = '%-15s %s
'
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

' % sys.argv[0])
    i = 0
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
        i += 1
if i % 3 == 0 or i == len(self.dirs):
    sys.stdout.write (dir + '\n')
else:
    sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                sys.exit (0 if self.errors.ok() else 1)

#---------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
def skip_file(self, dir, filename):
    if filename.endswith('.m4'):
        pathname = os.path.join(dir, filename)
        with open(pathname) as file:
            # Skip files imported from gettext.
            if file.readline().find('gettext-') >= 0:
                return True
        return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set(['
            # Not part of GCC
            'math-68881.h',
        '])

        self.skip_dirs |= set(['
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        '])

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        '])

        self.fossilised_files |= set(['
            # Old news won't be updated.
            'ONEWS',
        '])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
        '])
'.h',
'.hs',
'.f',
'.f90',
'.go',
'.inc',
'.java',
}

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',
        ])

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# Imported from upstream
'classpath',
'libltdl',
])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
return re.compile('// (C) Copyright Jeremy Siek')
return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright (Copyright):
def __init__ (self, errors):
    Copyright.__init__ (self, errors)

canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author ('Free Software Foundation', canon_fsf)
self.add_package_author ('Free Software Foundation.', canon_fsf)
self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('The Free Software Foundation', canon_fsf)
self.add_package_author ('The Free Software Foundation, Inc', canon_fsf)
self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('Software Foundation, Inc.', canon_fsf)

self.add_external_author ('ARM')
self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks.')
self.add_external_author ('Faraday Technology Corp.')
self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
self.add_external_author ('Information Technology Industry Council.')
self.add_external_author ('James Theiler, Brian Gough')
self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author ('National Research Council of Canada.')
self.add_external_author ('NVIDIA Corporation')
self.add_external_author ('Peter Dimov and Multi Media Ltd.')
self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeline Associates, Inc.')
self.add_external_author ('Regents of the University of California.')
self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author ('Silicon Graphics')
self.add_external_author ('Stephen L. Moshier')
self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Regents of the University of California.')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
def __init__ (self):
    CmdLine.__init__ (self, GCCCopyright)
self.add_dir ('.', TopLevelFilter())
# boehm-gc is imported from upstream.
self.add_dir ('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir ('fixincludes')
self.add_dir ('gcc', GCCFilter())
self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir ('gnattools')
self.add_dir ('include')
self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'),
TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
]
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compiler_rt License

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Developed by:

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University of Illinois at Urbana-Champaign

http://llvm.org

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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

@node Library Copying
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

@display
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@enumerate a
@item
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
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@end enumerate

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If distribution of object code is made by offering access to copy
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source code from the same place satisfies the requirement to
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compelled to copy the source along with the object code.

@item
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Section 6 states terms for distribution of such executables.

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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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@item
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@enumerate
@item
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@item
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class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels.  If we aren't using
underscores, we are using prefix `.s' to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */
/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
(fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
(fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
(fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)  
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of the label and NUM is the number within the class. This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_
"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
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/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax


class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.
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1.999 vault 0.1.13
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In versions 1.2.6, 1.3.9, 1.4.5, and 1.5.2, the enterprise licenses were not incorporated correctly into the build and we have issued patch releases (x.y.z.1) for enterprise customers containing the proper license. As the previous builds were both not working and causing confusion, we have removed the binaries.

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```
---
layout: api
page_title: /sys/license - HTTP API
description: |
The `/sys/license` endpoint is used to view and update the license used in Vault.
---

# `/sys/license`

-> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in Vault.
```
## Read License

--> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead, and see [License Status](#license-status) below for the non-deprecated equivalent API.

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
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<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license</code></td>
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</tbody>
</table>

### Sample Request
```
sudo curl --header "X-Vault-Token: ..." http://127.0.0.1:8200/v1/sys/license
```

### Sample Response
```
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": ["UI", "HSM", "Performance Replication", "DR Replication"],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": ["time left on license is 29m33s"]
}
```

## Read Signed License

--> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint returns the signed license blob for the currently installed license.

<table>
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<tr>
<th align="left">Method</th>
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<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license/signed</code></td>
</tr>
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</table>

### Sample Request
```
```
$ curl
    --header "X-Vault-Token: ..."
    http://127.0.0.1:8200/v1/sys/license/signed
```
### Sample Response
```json
{
    "data": {
        "signed": "01ABCDEFG..."
    }
}
```

### Sample Payload
```json
{
    "data": {
        "signed": "01ABCDEFG..."
    }
}
```

## Install License

-> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint is used to install a license into Vault. The license will be replicated to the Vault instances within the targeted cluster, but will not replicate the license to a [performance replication](/docs/enterprise/replication) cluster. To license a performance replication cluster, this must be run against a Vault instance within that cluster.

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<tbody>
<tr>
<td align="left"><code>PUT</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
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</table>

### Parameters

- `text` *(string: <required>)* - The text of the license.

_DR Secondary Specific Parameters_

- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request. Note that this is the legacy mechanism for providing a DR operation token. It is equally valid to provide the DR operation token in the `X-Vault-Token` header, as with a regular vault token.

If you are using a batch `dr_operation_token`, note you will need to add the following to the token's policy

```
```

### Sample Payload
```json
{
  "text": "01ABCDEFG...
}
```

### Sample Request

```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  --request PUT \
  --data @payload.json \
  http://127.0.0.1:8200/v1/sys/license
```

## Delete License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint is used to delete a stored license in Vault. This will return an error unless license autoloading is in use.

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<tr>
<th align="left">Method</th>
<th align="left">Path</th>
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<tbody>
<tr>
<td align="left"><code>DELETE</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Sample Request

```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  --request DELETE \
  http://127.0.0.1:8200/v1/sys/license
```

## License Status

This endpoint returns information about licensing. It returns similar information to a GET of `/sys/license`, but whereas that endpoint reports solely on the license Vault is currently using, this one reports on all licensing information the Vault cluster has. See [license autoloading](/docs/enterprise/license/autoloading) for background.

In the response:
* `autoloading_used` will be true if an autoloaded license was provided to the node, false otherwise.
* `autoloading` is the autoloaded license if autoloading_used is true.
* `persisted_autoload` is the autoloading license the active node last wrote to storage; this is only used to detect inconsistently licensed nodes in the cluster. It cannot be used as a license itself.
* `stored` is the stored license if any, i.e. one written using `PUT sys/license`.

`autoloading`, `persisted_autoload`, and `stored` all have the same structure, which is also the same structure as the top-level `data` returned by `GET sys/license`.

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</tr>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license/status</code></td>
</tr>
</tbody>
</table>

### Sample Request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license/status
```

### Sample Response

```json
{
   "data": {
      "autoloading_used": true,
      "autoloading": {
         "expiration_time": "2022-05-17T23:59:59.999Z",
         "features": [
            "HSM",
            "Performance Replication",
            "DR Replication",
            "MFA",
            "Sentinel",
            "Seal Wrapping",
            "Control Groups",
            "Performance Standby",
            "Namespaces",
            "KMIP",
            "Entropy Augmentation",
            "Transform Secrets Engine",
            "Lease Count Quotas",
            "Key Management Secrets Engine",
            "Automated Snapshots"
         ]
      }
   }
}
```
The `license` command groups subcommands for interacting with Vault licenses.
For more information, please see the [license documentation](/docs/enterprise/license)
## Examples
Query current license in use by a node:
```shell-session
$ vault license get
Key
Value
------expiration_time
2022-05-17T23:59:59.999Z
features
[HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups
Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas
Key Management Secrets Engine Automated Snapshots]
license_id
060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count 9999
start_time
2021-05-17T00:00:00Z
```
Query signed license string (only when using a deprecated stored license)
```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```
Inspect a signed a license string:
```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-0517T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governancepolicy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR
Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance
Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key
Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}
License is valid

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## Usage

```
Usage: vault license <subcommand> [options] [args]
```

Subcommands:
- `get` Query Vault's license
- `inspect` View the contents of a license string

For more information, examples, and usage about a subcommand, click on the name of the subcommand in the sidebar.

# Vault License

Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the [FAQ](/docs/enterprise/license/faq) for common questions concerning these changes.

The [Install a HashiCorp Enterprise License](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=vault/enterprise) tutorial provides the instruction to load your Vault license.

# license inspect

The `license inspect` command describes the contents of a signed license string.

```
Describe license in the environment (either `VAULT_LICENSE` for a raw value or `VAULT_LICENSE_PATH` for the path to a file containing the value):

```
```
License is valid
```shell-session
$ vault license inspect ~/vaults/license
```
License is valid
```shell-session
```
## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### Command Options
# Frequently Asked Questions (FAQ)

This FAQ section is for the license changes introduced in Vault Enterprise 1.8.

- [Q: When will these licensing changes be released for Vault?](#q-when-will-these-licensing-changes-be-released-for-vault)
- [Q: Will these license changes impact HCP Vault?](#q-will-these-license-changes-impact-hcp-vault)
- [Q: Do these license changes impact all Vault customers/licenses?](#q-do-these-license-changes-impact-all-vault-customers-licenses)
- [Q: What is the product behavior change introduced by the licensing changes?](#q-what-is-the-product-behavior-change-introduced-by-the-licensing-changes)
- [Q: How will Vault behave at startup when a license expires or terminates?](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)
- [Q: What is the impact on evaluation licenses due to this change?](#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change)
- [Q: Are there any changes to existing methods for manual license loading (API or CLI)?](#q-are-there-any-changes-to-existing-methods-for-manual-license-loading-api-or-cli)
- [Q: Is there a grace period when evaluation licenses expire?](#q-is-there-a-grace-period-when-evaluation-licenses-expire)
- [Q: Does this affect clients?](#q-does-this-affect-clients)
- [Q: Are the license files locked to a specific cluster?](#q-are-the-license-files-locked-to-a-specific-cluster)
- [Q: Will a EULA check happen every time a Vault restarts?](#q-will-a-eula-check-happen-every-time-a-vault-restarts)
- [Q: What scenarios should a customer plan for due to these license changes?](#q-what-scenarios-should-a-customer-plan-for-due-to-these-license-changes)
- [Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow)
- [Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?](#q-what-is-the-migration-path-for-customers-who-wish-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-license-on-disk-flow-auto-loading)
- [Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-current-license-on-storage-flow)
- [Q: What is the path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre-Vault 1.8 (license in storage)?](#q-what-is-the-path-for-customers-who-want-to-downgrade-rollback-from-vault-1-8-or-later-auto-loading-to-a-pre-vault-1-8-license-in-storage)
- [Q: Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)
### Q: When will these licensing changes be released for Vault?

The licensing and end-user license agreement (EULA) changes will be available with Vault 1.8-RC1 on June 16, 2021. Vault 1.8 is targeted to release on July 28, 2021.

### Q: Will these license changes impact HCP Vault?

No, these changes will not impact HCP Vault.

### Q: Do these license changes impact all Vault customers/licenses?

<table>
<thead>
<tr>
<th>Customer/licenses</th>
<th>Impacted?</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENT binaries (evaluation or non-evaluation downloaded from <a href="https://releases.hashicorp.com/vault/">releases.hashicorp.com</a>)</td>
<td>Yes</td>
</tr>
<tr>
<td>Open-Source (OSS)</td>
<td>No</td>
</tr>
<tr>
<td>Baked-in license binaries (pro/premium)</td>
<td>No</td>
</tr>
</tbody>
</table>

### Q: What is the product behavior change introduced by the licensing changes?

With Vault 1.8, a valid license is required on-disk (auto-loading) or in-storage for Vault to boot up successfully.

- Existing clusters upgrading to Vault 1.8 or later will not be affected. Customers may continue to use an in-storage license for their existing clusters until they decide to move to auto-loading. Please see the question below: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

- When deploying Vault 1.8 or later clusters, please ensure a valid license exists on-disk (auto-loading).

### Q: How will Vault behave at startup when a license expires or terminates?

When a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.8. The grace period, defined as the time between license expiration and license termination, is 1 day for evaluation licenses (as of 1.8), and ten years for non-evaluation licenses. Customers must install a valid license before the grace period expires. This license can be autoloaded or loaded into storage using existing methods (`/sys/license`) depending on the applicable scenarios as described above.

When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to install one, and this license will need to be auto-loaded.

### Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for Enterprise binaries allows these particular binaries to run without a license file and will be removed as of Vault 1.8 and later. This change means that any clusters deployed with Vault 1.8 or later ENT binaries must have a valid license, and the license must be on the disk (auto-loading).

### Q: Are there any changes to existing methods for manual license loading (API or CLI)?
There are no significant changes to the API or CLI license loading with Vault 1.8. However, the `/sys/license` endpoint is slated for deprecation in a future release. Please see the question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: Is there a grace period when evaluation licenses expire?

Evaluation licenses have a 1-day grace period. The grace period is the time until the license expires. Upon expiration, Vault will seal and will require a valid license to unseal and function properly.

### Q: Does this affect clients?

No, there is no impact to the Vault Agent.

### Q: Are the license files locked to a specific cluster?

The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

### Q: Will a EULA check happen every time a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement). Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

When a customer upgrades existing clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be in storage or on-disk (auto-loaded). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Also, when customers deploy new clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be on-disk (auto-loaded).

### Q: What scenarios should a customer plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.8 or later, a valid license must exist to successfully deploy. This valid license must be on-disk (auto-loaded).

- **Eventual Migration**: Since in-storage licenses will not be supported forever, migrating to auto-loaded licenses will be required. Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

If a Vault 1.7 cluster is upgraded to Vault 1.8 or later and still has a stored license, the operator must migrate using an auto-loaded license.
1. Use the new command `vault license get -signed` to retrieve the license from the storage in their running cluster.
2. Put the license on disk, configure auto-loading (new `license_path` config option, OR new environment variable `VAULT_LICENSE_PATH` OR new environment variable `VAULT_LICENSE` containing the actual license itself).
3. Restart the Vault node.
4. A warning will explain that the license is in storage and using auto-loading.
5. Use the new command `vault delete /sys/license` to fully transition to auto-loading.

### Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?

A Vault customer who is currently using S3 unlocked binaries, upgrading their clusters to Vault 1.8 or later, and wishes to move to auto-loading, will need a valid enterprise binary version 1.8 or later and a valid license. The steps are the same as in the above question: [What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow) starting at Step 2.

### Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?

A Vault customer currently using S3 unlocked binaries is upgrading their clusters to a pre-Vault 1.8 version, the customer must retrieve the corresponding enterprise binary and a valid license to load the license in storage (`/sys/license`). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: What is the path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre- Vault 1.8 (license in storage)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.8 or later, have a license installed via auto-loading, and would like to downgrade their cluster to a pre-1.8 version that does not have auto-loading support and only supports license in storage. Please refer to the [upgrade procedures](https://learn.hashicorp.com/tutorials/vault/sop-upgrade?in=vault/standard-procedures) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.8 enterprise binary version they wish to roll back, and bring up the clusters.

### Q: Is there a limited time for support of licenses that are in storage?

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support expected by our customers, we plan to scale support for licenses in storage for Vault. With this plan, Vault customers have up to a 1-year migration period, or until the release of Vault 1.11, to migrate their licenses from in-storage to auto-loading. Starting with Vault 1.11, licensing endpoints that are put in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have auto-loaded licenses to upgrade to 1.11(+) successfully.
Details

<table>
<thead>
<tr>
<th>License ID</th>
<th>@licenseId</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valid from</td>
<td>@startTime</td>
</tr>
<tr>
<td></td>
<td>@expirationTime</td>
</tr>
<tr>
<td>License state</td>
<td>@autoloaded</td>
</tr>
<tr>
<td></td>
<td>Stored</td>
</tr>
</tbody>
</table>

Stored licenses will be deprecated in a future version of Vault. We recommend autoloading your license. Read more [here](https://www.vaultproject.io/docs/enterprise/license).

Features

<table>
<thead>
<tr>
<th>Feature Name</th>
<th>Active/Not Active</th>
<th>Standby Nodes Allotted</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Active/Not Active</td>
<td></td>
</tr>
</tbody>
</table>

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Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries that contained embedded licenses, or via a license written into Vault storage using the [PUT sys/license API](/api/system/license#install-license).

As of Vault 1.8 those options still exist but are deprecated, and the recommended mechanism for managing licenses is called License Autoloading. New clusters are required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in increasing order of priority (i.e. `VAULT_LICENSE` takes precedence over `VAULT_LICENSE_PATH`, which takes precedence over `license_path` in config.)

* [license_path in config](/docs/configuration#license_path)
* [VAULT_LICENSE_PATH environment variable](/docs/commands#vault_license_path)
* [VAULT_LICENSE environment variable](/docs/commands#vault_license)

Nodes within a cluster should be consistently licensed. All nodes in a cluster should use autoloading, or none should. If autoloading is used, all nodes should use the same license string. Warnings will be written to the log when there are discrepancies.

If autoloading is used, any existing stored license will be ignored. The presence of a stored license in conjunction with an autoloaded license will also result in logged warnings. Once a migration to autoloading is completed, it is recommended to use the [DELETE API](/api/system/license#delete-license) to remove the stored license.

{{#if this.licenseExpired}}
<div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-expired>
  <AlertBanner
    @type="danger"
    @title="License expired"
    @message="Your Vault license expired on {{date-format @expiry "MMM d, yyyy"}}. Add a new license to your configuration and restart Vault."
    @marginless={{true}}
  >
    <a href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license" target="_blank" rel="noreferrer noopener">Read documentation</a>
  </AlertBanner>
</div>
{{else if (lte this.licenseExpiringInDays 30)}}
package license

// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
    return false
}

---

# license get

The `license get` command reports on the license in use. With the `~signed` flag, it will return the actual license string, but only if the license is stored, as opposed to [autoloaded](/docs/enterprise/license/autoloading).

## Examples

Describe current license:

```shell-session
```
$ vault license get

<table>
<thead>
<tr>
<th>Key</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>expiration_time</td>
<td>2022-05-17T23:59:59.999Z</td>
</tr>
<tr>
<td>features</td>
<td>[HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]</td>
</tr>
<tr>
<td>license_id</td>
<td>060d7820-fa59-f95c-832b-395db0aeb9ba</td>
</tr>
<tr>
<td>performance_standby_count</td>
<td>9999</td>
</tr>
<tr>
<td>start_time</td>
<td>2021-05-17T00:00:00Z</td>
</tr>
</tbody>
</table>

Get stored license string:

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Try to get stored license string when using autoloading:

```shell-session
$ vault license get -signed
License not found or using a temporary license.
```

## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### Command Options

- `-signed` `(bool: false)` - Return the signed license string when using a stored license.

---

1.1000 wildfly-security-manager 11.1.1.Final

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1.1002 log4j-slf4j-impl 2.11.2

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1.1004 jakarta-ws-rs-api 2.1.6

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* https://github.com/eclipse-ee4j/jaxrs-api

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*uganda.txt*    For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL   by Bram Moolenaar

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SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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==============================================================================
Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water
and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:
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/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its @link ChannelPipeline. 
 *
 * <h3>Sub-types</h3>
 * <p>
 * @link ChannelHandler itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>@link ChannelInboundHandler to handle inbound I/O events, and</li>
 * <li>@link ChannelOutboundHandler to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>

* For more information, please refer to the documentation of each subtype.

* <h3>The context object</h3>

* <p>A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
* 
* <h3>State management</h3>

* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* 
* public interface Message {
*     // your methods here
* }

* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
* 
*     <b>private boolean loggedIn;</b>
*     
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where an unauthenticated client can get
the confidential information:

// Create a new handler instance per channel.
// See \{@link ChannelInitializer\#initChannel(\{Channel\})\}.
public class DataServerInitializer extends \{@link ChannelInitializer\} {  
    \{@code @Override\}
    public void initChannel(\{@link Channel\} channel) {  
        channel.pipeline().addLast("handler", \{new DataServerHandler()\});  
    }
}

Using \{@link AttributeKey\}s

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use \{@link AttributeKey\}s which is provided by
 \{@link ChannelHandlerContext\}:

public interface Message {  
    // your methods here  
}

\{@code @Sharable\}
public class DataServerHandler extends \{@link SimpleChannelInboundHandler\\{Message\}\} {  
    private final \{@link AttributeKey\} \{@link Boolean\} auth = \{  
        \{@link AttributeKey\#valueOf(String)\} AttributeKey.valueOf("auth")\};  
}

\{@code @Override\}
public void channelRead(\{@link ChannelHandlerContext\} ctx, Message message) {  
    \{@link Attribute\} \{@link Boolean\} attr = ctx.attr(auth);
    if (message instanceof LoginMessage) {  
        authenticate((LoginMessage) o);
        \{attr.set(true)\};
    } else (message instanceof GetDataMessage) {  
        if (\{\{b\}Boolean\}.TRUE.equals(attr.get())\{b\}) {  
            ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
        } else {  
            fail();
            ...
        }
    }
}

Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {

    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

### The `@Sharable` Annotation

In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation.

If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `ChannelHandler`, and `ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelHandlerMask.java

* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/EventLoopTaskQueueFactory.java

* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ExtendedClosedChannelException.java
1.1007 libsemanage 2.5 14.el7

1.1007.1 Available under license:

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1.1008 jctools-core 2.1.2
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1.1009 snappy-java 1.1.7

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Found in path(s):
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/test_xml_serialization.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/test_pipeline.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/test_client.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/asynctests/test_pipeline.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/test_auth.py
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* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/test_runtime.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/test_requests_universal.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/asynctests/test_polling.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/test_universal_pipeline.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/asynctests/test_async_client.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/asynctests/test_paging.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/test_exceptions.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/asynctests/test_universal_http.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/asynctests/test_async_paging.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/test_serialization.py

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Metadata-Version: 2.1
Name: msrest
Version: 0.6.21
Summary: AutoRest swagger generator Python client runtime.
Home-page: https://github.com/Azure/msrest-for-python
Author: Microsoft Corporation
License: MIT License
Description: AutoRest: Python Client Runtime

.. image:: https://travis-ci.org/Azure/msrest-for-python.svg?branch=master
   :target: https://travis-ci.org/Azure/msrest-for-python

.. image:: https://codecov.io/gh/azure/msrest-for-python/branch/master/graph/badge.svg
   :target: https://codecov.io/gh/azure/msrest-for-python

Installation
-------------

To install:

.. code-block:: bash

   $ pip install msrest

Release History
----------------

2021-01-26 Version 0.6.21
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**Bug Fixes**

- Fixes `failsafe_deserialize` introduced in `0.6.20` #232

2021-01-25 Version 0.6.20
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**Features**

- Add `failsafe_deserialize` method to the `Deserializer` object. #232
- Serialize `datetime`, `date`, `time`, `timedelta` and `Decimal` correctly when serializing `object` . #224

2020-09-08 Version 0.6.19
**Bugfixes**

- Fix serialization of random Model object  #220
- Fix serialization of unicode string in Py2 and object mode #221

2020-07-27 Version 0.6.18

**Features**

- Add support for attributes/text in the same XML node #218

2020-06-25 Version 0.6.17

**Bugfixes**

- Fix XML and discriminator  #214

2020-06-09 Version 0.6.16

**Features**

- Add py.typed for mypy support

2020-06-04 Version 0.6.15

**Bugfixes**

- Fix RFC regression introduced in 0.6.14 (RFC parse date are no longer pickable) #208
- Fix XML parsing with namespaces #206

Thanks to ivanst0 for the contribution

2020-05-18 Version 0.6.14
**Bugfixes**
- Fix "from_dict" in some complex flattening scenario  #204
- Fix RFC date parsing if machine locale is not English  #201

2020-04-07 Version 0.6.13

**Bugfixes**
- Fix deserializer and flattening if intermediate node is None  #198
- Fix validation exception message for minimum/maximum checks  #199

2020-04-06 Version 0.6.12

**Features**
- Add "time" serializer/deserializer  #196

2020-01-30 Version 0.6.11

**Features**
- XML mode can now be enabled even if the given Model has no XML metadata  #184
- Add Kerberos Authentication  #186
- Improve error message if expected type is dictionary and something else is provided  #188

**Bugfixes**
- Fix comma separated serialization of array in query  #186
- Fix validation of basic types in some complex scenario  #189

Thanks to catatonicprime for the contribution

2019-09-04 Version 0.6.10

**Features**
- XML mode now supports OpenAPI additional properties  #174

**Bugfixes**
- Accept "is_xml" kwargs to force XML serialization #178
- Disable XML deserialization if received element is not an ElementTree #178
- A "null" enum deserialize as None, and not "None" anymore #173
- Fix some UTF8 encoding issue in Python 2.7 and XML mode #172

2019-07-24 Version 0.6.9
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**Features**

- Accept extensions of JSON mimetype as valid JSON #167

2019-06-24 Version 0.6.8
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**BugFixes**

- Impossible to serialize XML if model contains UTF8 characters on Python 2.7 #165
- Impossible to deserialize a HTTP response as XML if body contains UTF8 characters on Python 2.7 #165
- Loading a serialized configuration fails with NameError on NoOptionError #162

Thanks to cclauss for the contribution

2019-06-12 Version 0.6.7
+++++++++++++++++++++++

**Features**

- Add DomainCredentials credentials for EventGrid

Thanks to kalyanaj for the contribution

2019-03-21 Version 0.6.6
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**Bugfixes**

- Make 0.6.x series compatible with pyinstaller again
  - sdist now includes tests

Thanks to dotlambda for the contribution

2019-03-11 Version 0.6.5
+++++++++++++++++++++++

**Bugfixes**
- Fix list of integers serialization if div is provided #151
- Fix parsing of UTF8 with BOM #145

Thanks to eduardomourar for the contribution

2019-01-09 Version 0.6.4
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**Bugfixes**

- Fix regression on credentials configuration if used outside of Autorest scope #135

2019-01-08 Version 0.6.3
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**Features**

- Updated **experimental** async support. Requires Autorest.Python 4.0.64.

2018-11-19 Version 0.6.2
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**Bugfixes**

- Fix circular dependency in TYPE_CHECKING mode #128

2018-10-15 Version 0.6.1
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**Bugfixes**

- Remove unnecessary verbose "warnings" log #126

2018-10-02 Version 0.6.0
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**Features**

- The environment variable AZURE_HTTP_USER_AGENT, if present, is now injected part of the UserAgent
- New **preview** msrest.universal_http module. Provide tools to generic HTTP management (sync/async, requests/aiohttp, etc.)
  - New **preview** msrest.pipeline implementation:
    - A Pipeline is an ordered list of Policies than can process an HTTP request and response in a generic way.
    - More details in the wiki page about Pipeline: https://github.com/Azure/msrest-for-python/wiki/msrest-0.6.0--Pipeline
- Adding new attributes to Configuration instance:
  - http_logger_policy - Policy to handle HTTP logging
  - user_agent_policy - Policy to handle UserAgent
  - pipeline - The current pipeline used by the SDK client
  - async_pipeline - The current async pipeline used by the async SDK client

- Installing "msrest[async]" now installs the **experimental** async support. Works ONLY for Autorest.Python 4.0.63.

**Breaking changes**
- The HTTPDriver API introduced in 0.5.0 has been replaced by the Pipeline implementation.
- The following classes have been moved from "msrest.pipeline" to "msrest.universal_http":
  - ClientRedirectPolicy
  - ClientProxies
  - ClientConnection

- The following classes have been moved from "msrest.pipeline" to "msrest.universal_http.requests":
  - ClientRetryPolicy

**Bugfixes**
- Fix "long" on Python 2 if used with the "object" type  #121

Thanks to robgolding for the contribution

2018-09-04 Version 0.5.5
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**Bugfixes**
- Fix a serialization issue if additional_properties is declared, and "automatic model" syntax is used
  ("automatic model" being the ability to pass a dict to command and have the model auto-created)  # 120

2018-07-12 Version 0.5.4
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**Features**
- Support additionalProperties and XML

**BugFixes**
- Better parse empty node and not string types
- Improve "object" XML parsing

2018-07-10 Version 0.5.3
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**BugFixes**

- Fix some XML serialization subtle scenarios

2018-07-09 Version 0.5.2
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**Features**

- deserialize/from_dict now accepts a content-type parameter to parse XML strings

**Bugfixes**

- Fix some complex XML Swagger definitions.

This release likely breaks already generated XML SDKs, that needs to be regenerated with autorest.python 3.0.58

2018-06-21 Version 0.5.1
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**Bugfixes**

- Lower Accept header overwrite logging message #110
- Fix 'object' type and XML format

Thanks to dharmab for the contribution

2018-06-12 Version 0.5.0
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**Disclaimer**

This released is designed to be backward compatible with 0.4.x, but there is too many internal refactoring and new features to continue with 0.4.x versionning

**Features**

- Add XML support
- Add many type hints, and MyPY testing on CI.
- HTTP calls are made through a HTTPDriver API. Only implementation is `requests` for now. This driver API is *not* considered stable
  and you should pin your msrest version if you want to provide a personal implementation.
**Bugfixes**

- Incorrect milliseconds serialization for some datetime object #94

**Deprecation**

That will trigger a DeprecationWarning if an old Autorest generated code is used.

- `_client.add_header` is deprecated, and `config.headers` should be used instead
- `_client.send_formdata` is deprecated, and `_client.put/get/delete/post + _client.send` should be used instead

2018-04-30 Version 0.4.29

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**Bugfixes**

- Improve `SDKClient.__exit__` to take `exc_details` as optional parameters and not required #93
- `refresh_session` should also use the permanent HTTP session if available #91

2018-04-18 Version 0.4.28

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**Features**

- `msrest` is now able to keep the "requests.Session" alive for performance. To activate this behavior:
  - Use the final `Client` as a context manager (requires generation with Autorest.Python 3.0.50 at least)
  - Use `client.config.keep_alive = True` and `client.close()` (requires generation with Autorest.Python 3.0.50 at least)
  - Use `client.config.keep_alive = True` and `client._client.close()` (not recommended, but available in old releases of SDK)

- All Authentication classes now define `signed_session` and `refresh_session` with an optional `session` parameter.
  To take benefits of the session improvement, a subclass of Authentication *MUST* add this optional parameter
  and use it if it's not `None`:

```python
def signed_session(self, session=None):
    session = session or requests.Session()
    # As usual from here.
```

2018-03-07 Version 0.4.27

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**Features**
- Disable HTTP log by default (security), add `enable_http_log` to restore it #86

**BugFixes**

- Fix incorrect date parsing if ms precision is over 6 digits #82

2018-01-30 Version 0.4.26
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**Features**

- Add TopicCredentials for EventGrid client

**Bugfixes**

- Fix minimal dependency of isodate
- Fix serialisation from dict if datetime provided

2018-01-08 Version 0.4.25
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**Features**

- Add LROPoller class. This is a customizable LRO engine.
  This is the poller engine of Autorest.Python 3.0, and is not used by code generated by previous Autorest version.

2018-01-03 Version 0.4.24
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**Bugfixes**

- Date parsing is now compliant with Autorest / Swagger 2.0 specification (less lenient)

**Internal optimisation**

- Call that does not return a streamable object are now executed in requests stream mode False (was True whatever the type of the call).
  This should reduce the number of leaked opened session and allow urllib3 to manage connection pooling more efficiently.
  Only clients generated with Autorest.Python >= 2.1.31 (not impacted otherwise, fully backward compatible)

2017-12-21 Version 0.4.23
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**Bugfixes**
- Accept to deserialize enum of different type if content string match #75
- Stop failing on deserialization if enum string is unknown. Return the string instead.

**Features**

- Model now accept kwargs in constructor for future kwargs models

2017-12-15 Version 0.4.22
+++++++ **Bugfixes**

- Do not validate additional_properties #73
- Improve validation error if expected type is dict, but actual type is not #73

2017-12-14 Version 0.4.21
+++++++ **Bugfixes**

- Fix additional_properties if Swagger was flatten #72

2017-12-13 Version 0.4.20
+++++++ **Features**

- Add support for additional_properties
  - By default, all additional_properties are kept.
  - Additional properties are sent to the server only if it was specified in the Swagger,
    or if "enable_additional_properties_sending" is called on the model we want it.
    This is a class method that enables it for all instance of this model.

2017-11-20 Version 0.4.19
+++++++ **Features**

- The interpretation of Swagger 2.0 "discriminator" is now lenient. This means for these two scenarios:
  - Discriminator value is missing from the received payload
  - Discriminator value is not defined in the Swagger

Instead of failing with an exception, this now returns the base type for this "discriminator".

Note that this is not a contradiction of the Swagger 2.0 spec, that specifies
"validation SHOULD fail [...] there may exist valid reasons in particular circumstances to ignore a particular
but the full implications must be understood and carefully weighed before choosing a different course."

This cannot be configured for now and is the new default behavior, but can be in the future if needed.

**Bugfixes**

- Optional formdata parameters were raising an exception (#65)
- "application/x-www-form-urlencoded" form was sent using "multipart/form-data". This causes problems if the server does not support "multipart/form-data" (#66)

2017-10-26 Version 0.4.18
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**Features**

- Add ApiKeyCredentials class. This can be used to support OpenAPI ApiKey feature.
- Add CognitiveServicesAuthentication class. Pre-declared ApiKeyCredentials class for Cognitive Services.

2017-10-12 Version 0.4.17
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**Features**

This make Authentication classes more consistent:

- OAuthTokenAuthentication is now a subclass of BasicTokenAuthentication (was Authentication)
- BasicTokenAuthentication has now a "set_token" methods that does nothing.

This allows test like "isinstance(o, BasicTokenAuthentication)" to be guaranted that the following attributes exists:

- token
- set_token()
- signed_session()

This means for users of "msrestazure", that they are guaranted that all AD classes somehow inherits from "BasicTokenAuthentication"

2017-10-05 Version 0.4.16
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**Bugfixes**

- Fix regression: accept "set<str>" as a valid "[str]" (#60)

2017-09-28 Version 0.4.15
+++++++++++++++++++++++++
**Bugfixes**

- Always log response body (#16)
- Improved exception message if error JSON is Odata v4 (#55)
- Refuse "str" as a valid "[str]" type (#41)
- Better exception handling if input from server is not JSON valid

**Features**

- Add Configuration.session_configuration_callback to customize the requests.Session if necessary (#52)
- Add a flag to Serializer to disable client-side-validation (#51)
- Remove "import requests" from "exceptions.py" for apps that require fast loading time (#23)

Thank you to jayden-at-arista for the contribution

2017-08-23 Version 0.4.14
+++++++++++++++++++++++++

**Bugfixes**

- Fix regression introduced in msrest 0.4.12 - dict syntax with enum modeled as string and enum used

2017-08-22 Version 0.4.13
+++++++++++++++++++++++++

**Bugfixes**

- Fix regression introduced in msrest 0.4.12 - dict syntax using isodate.Duration (#42)

2017-08-21 Version 0.4.12
+++++++++++++++++++++++++

**Features**

- Input is now more lenient
- Model have a "validate" method to check content constraints
- Model have now 4 new methods:
  - "serialize" that gives the RestAPI that will be sent
  - "as_dict" that returns a dict version of the Model. Callbacks are available.
  - "deserialize" the parses the RestAPI JSON into a Model
  - "from_dict" that parses several dict syntax into a Model. Callbacks are available.

More details and examples in the Wiki article on Github:
https://github.com/Azure/msrest-for-python/wiki/msrest-0.4.12---Serialization-change

**Bugfixes**
- Better Enum checking (#38)

2017-06-21 Version 0.4.11
++++++++++++++++++++++++++

**Bugfixes**

- Fix incorrect dependency to "requests" 2.14.x, instead of 2.x meant in 0.4.8

2017-06-15 Version 0.4.10
+++++++++++++++++++++++++

**Features**

- Add requests hooks to configuration

2017-06-08 Version 0.4.9
+++++++++++++++++++++++++

**Bugfixes**

- Accept "null" value for paging array as an empty list and do not raise (#30)

2017-05-22 Version 0.4.8
+++++++++++++++++++++++++

**Bugfixes**

- Fix random "pool is closed" error (#29)
- Fix requests dependency to version 2.x, since version 3.x is announced to be breaking.

2017-04-04 Version 0.4.7
+++++++++++++++++++++++++

**Bugfixes**

- Refactor paging #22:
  - "next" is renamed "advance_page" and "next" returns only 1 element (Python 2 expected behavior)
  - paging objects are now real generator and support the "next()" built-in function without need for "iter()"

  - Raise accurate DeserializationError on incorrect RestAPI discriminator usage #27
  - Fix discriminator usage of the base class name #27
  - Remove default mutable arguments in Clients #20
  - Fix object comparison in some scenarios #24

2017-03-06 Version 0.4.6
**Bugfixes**
- Allow Model sub-classes to be serialized if type is "object"

2017-02-13 Version 0.4.5

**Bugfixes**
- Fix polymorphic deserialization #11
- Fix regexp validation if '\w' is used in Python 2.7 #13
- Fix dict deserialization if keys are unicode in Python 2.7

**Improvements**
- Add polymorphic serialisation from dict objects
- Remove chardet and use HTTP charset declaration (fallback to utf8)

2016-09-14 Version 0.4.4

**Bugfixes**
- Remove paging URL validation, part of fix https://github.com/Azure/autorest/pull/1420

**Disclaimer**
In order to get paging fixes for impacted clients, you need this package and Autorest > 0.17.0 Nightly 20160913

2016-09-01 Version 0.4.3

**Bugfixes**
- Better exception message (https://github.com/Azure/autorest/pull/1300)

2016-08-15 Version 0.4.2

**Bugfixes**
- Fix serialization if "object" type contains None (https://github.com/Azure/autorest/issues/1353)

2016-08-08 Version 0.4.1
**Bugfixes**

- Fix compatibility issues with requests 2.11.0 (https://github.com/Azure/autorest/issues/1337)
- Allow url of ClientRequest to have parameters (https://github.com/Azure/autorest/issues/1217)

2016-05-25 Version 0.4.0  
+------------------------------------------+

This version has no bug fixes, but implements new features of Autorest:
- Base64 url type
- unixtime type
- x-ms-enum modelAsString flag

**Behaviour changes**

- Add Platform information in UserAgent
- Needs Autorest > 0.17.0 Nightly 20160525

2016-04-26 Version 0.3.0  
+------------------------------------------+

**Bugfixes**

- Read only values are no longer in __init__ or sent to the server (https://github.com/Azure/autorest/pull/959)
- Useless kwarg removed

**Behaviour changes**

- Needs Autorest > 0.16.0 Nightly 20160426

2016-03-25 Version 0.2.0  
+------------------------------------------+

**Bugfixes**

- Manage integer enum values (https://github.com/Azure/autorest/pull/879)
- Add missing application/json Accept HTTP header (https://github.com/Azure/azure-sdk-for-python/issues/553)

**Behaviour changes**

- Needs Autorest > 0.16.0 Nightly 20160324

2016-03-21 Version 0.1.3  
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Open Source Used In SDWan 20.7.1 10936
**Bugfixes**

- Deserialisation of generic resource if null in JSON (https://github.com/Azure/azure-sdk-for-python/issues/544)

2016-03-14 Version 0.1.2
+++++++++++++++++++++++++

**Bugfixes**

- urllib3 side effect (https://github.com/Azure/autorest/issues/824)

2016-03-04 Version 0.1.1
+++++++++++++++++++++++++

**Bugfixes**

- Source package corrupted in Pypi (https://github.com/Azure/autorest/issues/799)

2016-03-04 Version 0.1.0
+++++++++++++++++++++++++

**Behavioural Changes**

- Removed custom logging set up and configuration. All loggers are now children of the root logger ‘msrest’ with no pre-defined configurations.
- Replaced _required attribute in Model class with more extensive _validation dict.

**Improvement**

- Removed hierarchy scanning for attribute maps from base Model class - relies on generator to populate attribute maps according to hierarchy.
- Base class Paged now inherits from collections.Iterable.
- Data validation during serialization using custom parameters (e.g. max, min etc).
- AddedValidationError to be raised if invalid data encountered during serialization.

2016-02-29 Version 0.0.3
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**Bugfixes**

- Source package corrupted in Pypi (https://github.com/Azure/autorest/issues/718)

2016-02-19 Version 0.0.2
++++++++++++++++++++++++++
**Bugfixes**

- Fixed bug in exception logging before logger configured.

2016-02-19 Version 0.0.1

+-------------------------------------+

- Initial release.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
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Provides-Extra: async

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* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/PKG-INFO

1.1011 oauthlib 2.0.6

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1.1012 concurrentlinkedhashmap-lru 1.4.1

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1.1013 lsb 9.20160110ubuntu0.2

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.1042 jline-reader 3.10.0

1.1043 boto3 1.16.51
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1.1044 opensaml-saml-api 3.3.0

1.1045 sean-seed 0.0.0-20170313163322-e2103e2c3529

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Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

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*/
/**
 * Constructs a new [Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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/**
 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see [@link Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [@link Type Type]).
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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  jar/org/objectweb/asm/TypePath.java

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*/
/**
 * Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must not use this constructor</i>. Instead, they must use the
 * [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)] version.
 * 
 * @param typeRef
 * a reference to the annotated type. See [@link TypeReference].
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
 * the class descriptor of the annotation class.
 */

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jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
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jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/Label.java
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jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/util/CheckMethodAdapter.java
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*/
/**
* Constructs a new [@link ClassNode]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the [@link ClassNode(int)]
* version.
* @throws IllegalStateException
* @throws IllegalState
* if a subclass calls this constructor.
*
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  jar/org/objectweb/asm/tree/ClassNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/XML/Processor.java
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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/util/package.html
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/package.html
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/analysis/package.html
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/package.html
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/signature/package.html

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*/
/**
* Creates a new JSRInliner. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [ @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
* version.
*
* @param mv
*   the <code>MethodVisitor</code> to send the resulting inlined
method code to (use <code>null</code> for none).
@param access
   the method's access flags (see [ @link Opcodes ]). This
   parameter also indicates if the method is synthetic and/or
   deprecated.
@param name
   the method's name.
@param desc
   the method's descriptor (see [ @link Type ]).
@param signature
   the method's signature. May be <tt>null</tt>.
@throws IllegalStateException
   If a subclass calls this constructor.
*/

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/**
 * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 *
 * @param access
 * the method's access flags (see {@link Opcodes}).
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see {@link Type}).
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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===============================================================================

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and PowellOptimizer (package org.apache.commons.math3.optimization.general)
classes are based on the Python code in module "optimize.py" (version 0.5)
developed by Travis E. Oliphant for the SciPy library (http://www.scipy.org/)
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*/
jar/org/springframework/web/server/WebFilter.java
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jar/org/springframework/web/filter/CommonsRequestLoggingFilter.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
jar/org/springframework/web/util/HttpSessionMutexListener.java
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application/activemessage
application/alto-costmap+json
application/alto-costmapfilter+json
application/alto-directory+json
application/alto-endpointcost+json
application/alto-endpointcostparams+json
application/alto-endpointprop+json
application/alto-endpointpropparams+json
application/alto-error+json
application/alto-networkmap+json
application/alto-networkmapfilter+json
application/aml
application/andrew-insetez
application/applefile
application/applixwareaw
application/atf
application/atfx
# application/dii
# application/dit
# application/dns
application/docbook+xml
dbk
# application/dskpp+xml
application/dssc+der
dssc
application/dssc+xml	xdssc
# application/dvcs
application/ecmascript
tecma
# application/edi-consent
# application/edi-x12
# application/edifact
# application/efi
# application/emergencycalldata.comment+xml
# application/emergencycalldata.deviceinfo+xml
# application/emergencycalldata.providerinfo+xml
# application/emergencycalldata.serviceinfo+xml
# application/emergencycalldata.subscriberinfo+xml
application/emma+xml
# application/emotionml+xml
# application/encaprtpt
# application/epp+xml
application/epub+zip	epub
# application/eshop
# application/example
application/exiexi
# application/fastinfoset
# application/fastsoap
# application/ftd+xml
# application/fits
# application/font-sfnt
application/font-tdpfr
application/font-woff
# application/framework-attributes+xml
# application/geo+json
application/gml+xml
application/gpx+xml
application/gxf
gxf
# application/gzip
# application/h224
# application/held+xml
# application/http
application/hyperstudio
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml				inkml
# application/iotp
application/ipfix				ipfix
# application/ipp
# application/isup
# application/its+xml
application/java-archive			jar
application/java-serialized-object			ser
application/java-vm				class
application/javascript				js
# application/jose
# application/jose+json
# application/jrd+json
application/json
# application/json-patch+json
# application/json-seq
application/jsonml+json
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# application/jwk-set+json
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# application/lgr+xml
# application/link-format
# application/load-control+xml
application/lost+xml				lostxml
# application/lostsync+xml
# application/lxf
application/mac-binhex40			hqx
application/mac-compactpro			cpt
# application/macwriteii
application/mads+xml				mads
application/marc				mrc
application/marcxml+xml				mrcx
application/mathematica nb mb
application/mathml+xml				mathml
# application/mathml-content+xml
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# application/mbms-envelope+xml
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# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xml
mscml
# application/merge-patch+json
application/metalink+xml
metalink
application/metalink4+xml
xmlmeta4
application/mets+xml
mets
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application/mods+xml
mods
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
application/mp21+xml
mp21
application/mp4+xml
mp4s
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
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application/msword+xml
doc
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application/mxf+xml
mxf
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application/octet-stream
bin
dms
dlrf
mar
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dist
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dump
elc
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application/oda+xml
oda
# application/odx
application/oebps-package+xml
xml
application/ogg+xml
application/omdoc+xml
xml
application/onenote+xml
onetoc
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ontemp
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# application/riscos
# application/rml+xml
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application/rpki-manifest+xml
application/rpki-roa+xml
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application/scvp-vp-request
application/scvp-vp-response
application/sgml
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# application/smil
application/smil+xml
# application/smpte336m
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query
application/sparql-results+xml
# application/spirits-event+xml
# application/sql
application/srgs
application/srgs+xml
application/sru+xml
text/sru

text/ssl+xml
text/ssdl

text/ssml+xml
text/ssml

# application/tamp-apex-update
# application/tamp-apex-update-confirm
# application/tamp-community-update
# application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm

text/tei+xml
text/tei

text/thraud+xml
text/thraud

# application/timestamp-query
# application/timestamp-reply

text/timestamped-data
text/tsd

# application/ttml+xml

# application/tve-trigger

# application/ulpfec

# application/urc-grpsheet+xml
# application/urc-ressheet+xml
# application/urc-targetdesc+xml
# application/urc-uisocketdesc+xml

# application/vcard+json
# application/vcard+xml
# application/vemmi
# application/vividence.scriptfile

# application/vnd.3gpp-prose+xml
# application/vnd.3gpp-prose-pc3ch+xml
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# application/vnd.3gpp.bsf+xml
# application/vnd.3gpp.mid-call+xml

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# application/vnd.3gpp.srvcc-info+xml
# application/vnd.3gpp.state-and-event-info+xml
# application/vnd.3gpp.ussd+xml
# application/vnd.3gpp2.bcmcsinfo+xml
# application/vnd.3gpp2.sms
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# application/vnd.radisys.msml-dialog-transform+xml
# application/vnd.rainstor.data
# application/vnd.rapid
# application/vnd.rar
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# application/vnd.renlearn.rlprint
application/vnd.rig.cryptonotecryptonote
application/vnd.rim.codcod
application/vnd.rn-realmediarm
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application/vnd.route66.link66+xml
# application/vnd.rs-274x
# application/vnd.ruckus.download
# application/vnd.s3sms
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# application/vnd.sbm.cid
# application/vnd.sbm.mid2
# application/vnd.scribus
# application/vnd.sealed.3df
# application/vnd.sealed.csf
# application/vnd.sealed.doc
# application/vnd.sealed.eml
# application/vnd.sealed.mht
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# application/vnd.smart.notebook
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# application/vnd.software602.filler.form+xml
# application/vnd.software602.filler.form-xml-zip
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application/xslt+xml
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# audio/3gpp2
# audio/ac3
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# audio/gsm-efr
# audio/gsm-hr-08
# audio/ilbc
# audio/ip-mr_v2.5
# audio/isac
# audio/l16
# audio/l20
# audio/l24
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# audio/mobile-xmf
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# audio/mp4a-latm
# audio/mpa
# audio/mpa-robust
audio/mpegmpga mp2 mp2a mp3 m2a m3a
# audio/mpeg4-generic
# audio/musepack
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# audio/opus
# audio/parityfec
# audio/pcma
# audio/pcma-wb
# audio/pcm
# audio/pcm-wb
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# audio/qcelp
# audio/raptorfec
# audio/red
# audio/rtp-enc-aescm128
# audio/rtp-midi
# audio/rtploopback
# audio/rtx
audio/s3m s3m
audio/silk sil
# audio/smv
# audio/smv-qcp
# audio/smv0
# audio/sp-midi
# audio/speex
# audio/t140c
# audio/t38
# audio/telephone-event
# audio/tone
# audio/uemclip
# audio/ulpfec
# audio/vdvi
# audio/vmr-wb
# audio/vnd.3gpp.iufp
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audio/vnd.audiokoz
audio/vnd.celp
audio/vnd.cisco.nse
audio/vnd.cmles.radio-events
audio/vnd.cns.anp1
audio/vnd.cns.inf1
audio/vnd.dece.audiouva uvva
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audio/vnd.dolby.heaac.2
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audio/vnd.dolby.pl2x
audio/vnd.dolby.pl2z
audio/vnd.dolby.pulse.1
audio/vnd.dra
audio/vnd.dts
audio/vnd.dts.hd
dts
audio/vnd.dvb.file
audio/vnd.everad.plj
audio/vnd.hns.audio
audio/vnd.lucent.voice
audio/vnd.ms-playready.media.pya
audio/vnd.nortel.vbk
audio/vnd.nuer.ecelp4800ecelp4800
audio/vnd.nuer.ecelp7470ecelp7470
audio/vnd.nuer.ecelp9600ecelp9600
audio/vnd.objective-adiadpcm
audio/vnd.qcelp
audio/vnd.rhetorex.32kadpcm
audio/vnd.rip
audio/vnd.sealedmedia.softseal.mpeg
audio/vnd.vmx.cvsd
audio/vorbis
audio/vorbis-config
audio/webmweba
audio/x-aacaac
audio/x-aiff aiff aifc
audio/x-cafc
audio/x-flac
audio/x-matroskamka
audio/x-mpegurlm3u
audio/x-ms-wax
audio/x-ms-wma
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# message/http
# message/imdn+xml
# message/news
# message/partial
message/rfc822 eml mime
# message/s-http
# message/sip
# message/sipfrag
# message/tracking-status
# message/vnd.si.simp
# message/vnd.wfa.wsc
# model/example
# model/gltf+json
model/iges iges
model/mesh mesh silo
model/vnd.collada+xml modeldae
model/vnd.dwf dfw
# model/vnd.flatland.3dml
data/dae
data/vnd.gdl
data/vnd.gtw
data/model.moml+xml
model/vnd.ms
# model/vnd.opengex
# model/vnd.parasolid.transmit.binary
# model/vnd.parasolid.transmit.text
# model/vnd.rosette.annotated-data-model
# model/vnd.valve.source.compiled-map
model/vnd.vtu
data/vrml
model/x3d+binary x3db x3dbz
# model/x3d+fastinfoset
model/x3d+xml model3d x3dv
model/x3d+xml x3d x3dz
# model/x3d-xml
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# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
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*/

/**
* Return the web session for the current request. Always guaranteed to
* return an instance either matching to the session id requested by the
* client, or with a new session id either because the client did not
* specify one or because the underlying session had expired. Use of this
* method does not automatically create a session. See {@link WebSession}
* for more details.
*/
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* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
  jar/org/springframework/web/server/ServerWebExchange.java
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  jar/org/springframework/web/method/HandlerMethod.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
  jar/org/springframework/http/HttpHeaders.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
  jar/org/springframework/http/ResponseEntity.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
  jar/org/springframework/web/server/i18n/AcceptHeaderLocaleContextResolver.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
  jar/org/springframework/http/codec/json/Jackson2JsonDecoder.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
  jar/org/springframework/web/server/NotAcceptableStatusException.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
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* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
  jar/org/springframework/http/server/reactive/ServerHttpRequestDecorator.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
  jar/org/springframework/http/server/reactive/DefaultServerHttpRequestBuilder.java
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jar/org/springframework/http/server/ServerHttpResponse.java
  */opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
jar/org/springframework/web/HttpMediaTypeException.java
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jar/org/springframework/http/codec/multipart/MultipartHttpMessageWriter.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
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* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
jar/org/springframework/web/context/support/ServletContextScope.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
jar/org/springframework/web/context/support/AnnotationConfigWebApplicationContext.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
jar/org/springframework/web/method/annotation/RequestParamMethodArgumentResolver.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
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* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
jar/org/springframework/web/context/support/HandlerMethodArgumentResolverComposite.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
jar/org/springframework/http/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
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* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
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* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
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* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
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* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
jar/org/springframework/http/codec/multipart/MultipartHttpMessageReader.java
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jar/org/springframework/web/context/support/ServletContextScope.java
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* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-jar/org/springframework/http/client/AbstractBufferingAsyncClientHttpRequest.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-jar/org/springframework/web/context/support/UriComponentsContributor.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-jar/org/springframework/remoting/httpinvoker/HttpInvokerServiceExporter.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-jar/org/springframework/web/accept/ServletPathExtensionContentNegotiationStrategy.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-jar/org/springframework/web/context/request/AsyncRestOperations.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-jar/org/springframework/web/context/support/ServletRequestUtils.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-jar/org/springframework/web/context/request/async/CallableProcessingInterceptor.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-jar/org/springframework/web/context/support/StaticWebApplicationContext.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-jar/org/springframework/http/converter/json/GsonFactoryBean.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-jar/org/springframework/http/client/BufferingClientHttpResponseWrapper.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-jar/org/springframework/http/server/RequestPath.java
* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-jar/org/springframework/web/context/support/StaticWebApplicationContext.java
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include/GL/glxext.h
include/GL/wglxext.h :

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  jar/webapp/runner/launch/Main.java

1.1069 microprofile-config-api 1.4
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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="normalize-space(substring-before($text,'\n'))"/>
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javamail.glassfish
Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following 
artifacts may be included in the distribution or downloaded when ALPN 
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications 
are hosted at github and both modified and original are under GPL v2 with 
classpath exceptions. 
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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* /opt/cola/permits/1141637187_1615091544.16/0/smoothie-map-2-0-2-sources-jar/io/timeandspace/collect/package-info.java
* /opt/cola/permits/1141637187_1615091544.16/0/smoothie-map-2-0-2-sources-jar/io/timeandspace/smoothie/ComparableClassValue.java
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1.1083 jopt-simple 4.6

1.1084 elasticsearch-cli 6.8.10

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- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java`
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- `analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

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The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

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* /opt/cola/permits/1150945477_1617726824.38/0/netty-tcnative-boringssl-static-2-0-30-final-sources-4-jar/io/netty/internal/tcnative/Library.java
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* /opt/cola/permits/1150945477_1617726824.38/0/netty-tcnative-boringssl-static-2-0-30-final-sources-4-jar/io/netty/internal/tcnative/SSL.java

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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.30.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=macosx::processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_232

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* /opt/cola/permits/1150945477_1617726824.38/0/netty-tcnative-boringssl-static-2-0-30-final-sources-4-jar/META-INF/MANIFEST.MF
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  jar/io/netty/internal/tcnative/CertificateCallback.java

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/*
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         Bellingham, WA 98226-9062

*************************************************************************/

#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>

#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

/* Storage used for special numbers. */
bc_num _zero_;
bc_num _one_;
bc_num _two_;
static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */

bc_num
bc_new_num (length, scale)
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
    temp->n_ptr = (char *) malloc (length+scale);
    if (temp->n_ptr == NULL) bc_out_of_memory();
    memset (temp->n_ptr, 0, length+scale);
    return temp;
}

/* "Frees" a bc_num NUM. Actually decreases reference count and only frees the storage if reference count is zero. */

void
bc_free_num (num)
{
    bc_num *num;

    if (*num == NULL) return;
    (*num)->n_refs--;
    if (((*num)->n_refs == 0) {
        if (((*num)->n_ptr)
            free ((*num)->n_ptr);
        (*num)->n_next = _bc_Free_list;
        _bc_Free_list = *num;
    }
    *num = NULL;
}
/* Initialize the number package! */

void
bc_init_numbers ()
{
  __zero__ = bc_new_num (1,0);
  __one__ = bc_new_num (1,0);
  __one__->n_value[0] = 1;
  __two__ = bc_new_num (1,0);
  __two__->n_value[0] = 2;
}

/* Make a copy of a number! Just increments the reference count! */

bc_num
bc_copy_num (num)
  bc_num num;
{
  num->n.refs++;
  return num;
}

/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)
  bc_num *num;
{
  *num = bc_copy_num (__zero__);
}

/* For many things, we may have leading zeros in a number NUM.
   _bc_rm_leading_zeros just moves the data "value" pointer to the
   correct place and adjusts the length. */

static void
_bbc_rm_leading_zeros (num)
  bc_num num;
{
  /* We can move n_value to point to the first non zero digit! */
  while (*num->n_value == 0 && num->n_len > 1) {
    num->n_value++;
    num->n_len--;
  }
}
/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just compare the magnitudes. */

static int
    _bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
    int ignore_last;
{
    char *n1ptr, *n2ptr;
    int count;

    /* First, compare signs. */
    if (use_sign && n1->n_sign != n2->n_sign)
    {
        if (n1->n_sign == PLUS)
            return (1); /* Positive N1 > Negative N2 */
        else
            return (-1); /* Negative N1 < Positive N1 */
    }

    /* Now compare the magnitude. */
    if (n1->n_len != n2->n_len)
    {
        if (n1->n_len > n2->n_len)
        {
            /* Magnitude of n1 > n2. */
            if (!use_sign || n1->n_sign == PLUS)
                return (1);
            else
                return (-1);
        }
        else
        {
            /* Magnitude of n1 < n2. */
            if (!use_sign || n1->n_sign == PLUS)
                return (-1);
            else
                return (1);
        }
    }

    /* If we get here, they have the same number of integer digits. check the integer part and the equal length part of the fraction. */
    count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
    n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
{
    n1ptr++;
    n2ptr++;
    count--;
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
    return (0);
if (count != 0)
{
    if (*n1ptr > *n2ptr)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale-n2->n_scale; count>0; count--)
            if (*n1ptr++ != 0)
            {
                /* Magnitude of n1 > n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (1);
                else
                    return (-1);
            }
    }
    else
    {
        for (count = n2->n_scale-n1->n_scale; count>0; count--)
        { /* Magnitude of n1 < n2. */
            if (!use_sign || n1->n_sign == PLUS)
                return (1);
            else
                return (-1);
        }
    }
}
if (*n2ptr++ != 0)
{
    /* Magnitude of n1 < n2. */
    if (!use_sign || n1->n_sign == PLUS)
        return (-1);
    else
        return (1);
}
/* They must be equal! */
return (0);

/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)

    bc_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
}
/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)

    bc_num num;
{
    return num->n_sign == MINUS;
}
/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)

    bc_num num;
{
    int  count;
    char *nptr;

    /* Quick check. */
    if (num == _zero_) return TRUE;

    /* Initialize */
    count = num->n_len + num->n_scale;
nptr = num->n_value;

/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;

if (count != 0)
    return FALSE;
else
    return TRUE;
}

/* In some places we need to check if the number NUM is almost zero.
Specifically, all but the last digit is 0 and the last digit is 1.
Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{
    int count;
    char *nptr;

/* Error checking */
    if (scale > num->n_scale)
        scale = num->n_scale;

/* Initialize */
count = num->n_len + scale;
nptr = num->n_value;

/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;

if (count != 0 && (count != 1 || *--nptr != 1))
    return FALSE;
else
    return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is
returned. The signs of N1 and N2 are ignored.
SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
    char *n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
    int count;

    /* Prepare sum. */
    sum_scale = MAX (n1->n_scale, n2->n_scale);
    sum_digits = MAX (n1->n_len, n2->n_len) + 1;
    sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > sum_scale)
        {
            sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
            for (count = scale_min - sum_scale; count > 0; count--)
                *sumptr++ = 0;
        }

    /* Start with the fraction part. Initialize the pointers. */
    n1bytes = n1->n_scale;
    n2bytes = n2->n_scale;
    n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
    n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
    sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

    /* Add the fraction part. First copy the longer fraction. */
    if (n1bytes != n2bytes)
        {
            if (n1bytes > n2bytes)
                while (n1bytes>n2bytes)
                    { *sumptr-- = *n1ptr--; n1bytes--; }
            else
                while (n2bytes>n1bytes)
                    { *sumptr-- = *n2ptr--; n2bytes--; }
        }

    /* Now add the remaining fraction part and equal size integer parts. */
    n1bytes += n1->n_len;
    n2bytes += n2->n_len;
    carry = 0;
    while ((n1bytes > 0) && (n2bytes > 0))
        { 
            *sumptr = *n1ptr-- + *n2ptr-- + carry;
            if (*sumptr > (BASE-1))
                { 

carry = 1;
*sumptr -= BASE;
}
else
carry = 0;

sumptr--;
n1bytes--;
n2bytes--;
}

/* Now add carry the longer integer part. */
if (n1bytes == 0)
{
    n1bytes = n2bytes; n1ptr = n2ptr;
}
while (n1bytes-- > 0)
{
    *sumptr = *n1ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
        carry = 0;
    sumptr--;
}
/* Set final carry. */
if (carry == 1)
    *sumptr += 1;

/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;
}

/* Perform subtraction: N2 is subtracted from N1 and the value is returned. The signs of N1 and N2 are ignored. Also, N1 is assumed to be larger than N2. SCALE_MIN is the minimum scale of the result. */

static bc_num
_bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num diff;
    int diff_scale, diff_len;
int min_scale, min_len;
char *n1ptr, *n2ptr, *diffptr;
int borrow, count, val;

/* Allocate temporary storage. */
diff_len = MAX (n1->n_len, n2->n_len);
diff_scale = MAX (n1->n_scale, n2->n_scale);
min_len = MIN (n1->n_len, n2->n_len);
min_scale = MIN (n1->n_scale, n2->n_scale);
diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > diff_scale)
{
    diffptr = (char *) (diff->n_value + diff_len + diff_scale);
    for (count = scale_min - diff_scale; count > 0; count--)
        *diffptr++ = 0;
}

/* Initialize the subtract. */
n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
{
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
        *diffptr-- = *n1ptr--;
}
else
{
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
    {
        val = - *n2ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
            borrow = 0;
        *diffptr-- = val;
/* Now do the equal length scale and integer parts. */

for (count = 0; count < min_len + min_scale; count++)
{
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
    {
        val += BASE;
        borrow = 1;
    }
    else
        borrow = 0;
    *diffptr-- = val;
}

/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
{
    for (count = diff_len - min_len; count > 0; count--)
    {
        val = *n1ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
            borrow = 0;
        *diffptr-- = val;
    }
}

/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;

/* Here is the full subtract routine that takes care of negative numbers.
N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN
is the minimum scale for the result. */

void
bc_sub (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
int scale_min;
{
  bc_num diff = NULL;
  int cmp_res;
  int res_scale;

  if (n1->n_sign != n2->n_sign)
  {
    diff = _bc_do_add (n1, n2, scale_min);
    diff->n_sign = n1->n_sign;
  }
  else
  {
    /* subtraction must be done. */
    /* Compare magnitudes. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
    switch (cmp_res)
    {
    case -1:
      /* n1 is less than n2, subtract n1 from n2. */
      diff = _bc_do_sub (n2, n1, scale_min);
      diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
      break;
    case 0:
      /* They are equal! return zero! */
      res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
      diff = bc_new_num (1, res_scale);
      memset (diff->n_value, 0, res_scale+1);
      break;
    case 1:
      /* n2 is less than n1, subtract n2 from n1. */
      diff = _bc_do_sub (n1, n2, scale_min);
      diff->n_sign = n1->n_sign;
      break;
    }
    /* Clean up and return. */
    bc_free_num (result);
    *result = diff;
  }

/* Here is the full add routine that takes care of negative numbers. 
  N1 is added to N2 and the result placed into RESULT. SCALE_MIN 
is the minimum scale for the result. */
void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num sum = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign == n2->n_sign)
    {
        sum = _bc_do_add (n1, n2, scale_min);
        sum->n_sign = n1->n_sign;
    }
    else
    {
        /* subtraction must be done. */
        cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
        switch (cmp_res)
        {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            sum = _bc_do_sub (n2, n1, scale_min);
            sum->n_sign = n2->n_sign;
            break;
        case  0:
            /* They are equal! return zero with the correct scale! */
            res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
            sum = bc_new_num (1, res_scale);
            memset (sum->n_value, 0, res_scale+1);
            break;
        case  1:
            /* n2 is less than n1, subtract n2 from n1. */
            sum = _bc_do_sub (n1, n2, scale_min);
            sum->n_sign = n1->n_sign;
        }
    }

    /* Clean up and return. */
    bc_free_num (result);
    *result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif
int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
    temp->n_ptr = NULL;
    temp->n_value = value;
    return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
    int full_scale)
{
    char *n1ptr, *n2ptr, *pvptr;
    char *n1end, *n2end; /* To the end of n1 and n2. */
    int indx, sum, prodlen;

    prodlen = n1len+n2len+1;

    *prod = bc_new_num (prodlen, 0);

    n1end = (char *) (n1->n_value + n1len - 1);
    n2end = (char *) (n2->n_value + n2len - 1);
    pvptr = (char *) (*prod)->n_value + prodlen - 1);
    sum = 0;

    /* Here is the loop... */
    for (indx = 0; indx < prodlen-1; indx++)
{  
n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));  
n2ptr = (char *) (n2end - MIN(indx, n2len-1));  
while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))  
sum += *n1ptr-- * *n2ptr++;  
*pvptr-- = sum % BASE;  
sum = sum / BASE;  
}  
*pvptr = sum;  
}

/* A special adder/subtractor for the recursive divide and conquer  
multiply algorithm. Note: if sub is called, accum must  
be larger that what is being subtracted. Also, accum and val  
must have n_scale = 0. (e.g. they must look like integers. *) */  
static void  
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)  
{
  
signed char *accp, *valp;  
int  count, carry;  

  count = val->n_len;  
  if (val->n_value[0] == 0)  
    count--;  
  assert (accum->n_len+accum->n_scale >= shift+count);  

  /* Set up pointers and others */  
  accp = (signed char *)(accum->n_value +  
    accum->n_len + accum->n_scale - shift - 1);  
  valp = (signed char *)(val->n_value + val->n_len - 1);  
  carry = 0;  

  if (sub) {  
    /* Subtraction, carry is really borrow. */  
    while (count--) {  
      *accp -= *valp-- + carry;  
      if (*accp < 0) {  
        carry = 1;  
        *accp-- += BASE;  
      } else {  
        carry = 0;  
        accp--;  
      }  
    }  
    while (carry) {  
      *accp -= carry;  
      if (*accp < 0)  
    
  
}
/* Addition */
   while (count--) {
       *accp += *valp-- + carry;
       if (*accp > (BASE-1)) {
           carry = 1;
           *accp -= BASE;
       } else {
           carry = 0;
           accp--;
       }
   }
   while (carry) {
       *accp += carry;
       if (*accp > (BASE-1))
           *accp -= BASE;
       else
           carry = 0;
       prob--;
   }

/* Recursive divide and conquer multiply algorithm. */
static void
   _bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod, int full_scale)
   {!
   }
/* Calculate n -- the u and v split point in digits. */
n = (MAX(ulen, vlen)+1) / 2;

/* Split u and v. */
if (ulen < n) {
    u1 = bc_copy_num (_zero_);
    u0 = new_sub_num (ulen,0, u->n_value);
} else {
    u1 = new_sub_num (ulen-n, 0, u->n_value);
    u0 = new_sub_num (n, 0, u->n_value+ulen-n);
}
if (vlen < n) {
    v1 = bc_copy_num (_zero_);
    v0 = new_sub_num (vlen,0, v->n_value);
} else {
    v1 = new_sub_num (vlen-n, 0, v->n_value);
    v0 = new_sub_num (n, 0, v->n_value+vlen-n);
}

_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
    u0len = u0->n_len;
    _bc_rm_leading_zeros (v1);
    _bc_rm_leading_zeros (v0);
    v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */

bc_init_num(&d1);
bccinit_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
m2 = bc_copy_num (_zero_); else
    _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_); else
    _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);
/* Initialize product */
prodlen = ulen+vlen+1; *prod = bc_new_num(prodlen, 0);

if (!m1zero) {
    _bc_shift_addsub (*prod, m1, 2*n, 0);
    _bc_shift_addsub (*prod, m1, n, 0);
}
    _bc_shift_addsub (*prod, m3, n, 0);
    _bc_shift_addsub (*prod, m3, 0, 0);
    _bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);
/* Now clean up! */
bc_free_num (&u1);
brc_free_num (&u0);
brc_free_num (&v1);
brc_free_num (&m1);
brc_free_num (&v0);
brc_free_num (&m2);
brc_free_num (&m3);
brc_free_num (&d1);
brc_free_num (&d2);
}
/* The multiply routine. N2 times N1 is put int PROD with the scale of
 the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)). */
void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;
/* Initialize things. */
    len1 = n1->n_len + n1->n_scale;
len2 = n2->n_len + n2->n_scale;
full_scale = n1->n_scale + n2->n_scale;
prod_scale = MIN(full_scale, MAX(n1->n_scale, MAX(n2->n_scale, n1->n_scale)));

/* Do the multiply */
_bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

/* Assign to prod and clean up the number. */
pval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
pval->n_value = pval->n_ptr;
pval->n_len = len2 + len1 + 1 - full_scale;
pval->n_scale = prod_scale;
_bc_rm_leading_zeros (pval);
if (bc_is_zero (pval))
    pval->n_sign = PLUS;
b_c_free_num (prod);
*prod = pval;
}

/* Some utility routines for the divide: First a one digit multiply.  
NUM (with SIZE digits) is multiplied by DIGIT and the result is  
placed into RESULT.  It is written so that NUM and RESULT can be  
the same pointers.  */

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
    int carry, value;
    unsigned char *nptr, *rptr;

    if (digit == 0)
        memset (result, 0, size);
    else
    {
        if (digit == 1)
            memcpy (result, num, size);
        else
        {
            /* Initialize */
            nptr = (unsigned char *) (num+size-1);
rptr = (unsigned char *) (result+size-1);
carry = 0;

            while (size-- > 0)
            {
                /* Initialize */
                nptr = (unsigned char *) (num+size-1);
rptr = (unsigned char *) (result+size-1);
carry = 0;

                while (size-- > 0)
                {

```
value = *nptr-- * digit + carry;
*rptr-- = value % BASE;
    carry = value / BASE;
}

if (carry != 0) *rptr = carry;
}
}
}

/* The full division routine. This computes N1 / N2. It returns
0 if the division is ok and the result is in QUOT. The number of
digits after the decimal point is SCALE. It returns -1 if division
by zero is tried. The algorithm is found in Knuth Vol 2. p237. */

int  
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
    bc_num qval;
    unsigned char *num1, *num2;
    unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
    int  scale1, val;
    unsigned int  len1, len2, scale2, qdigits, extra, count;
    unsigned int  qdig, aguess, borrow, carry;
    unsigned char *mval;
    char zero;
    unsigned int  norm;

    /* Test for divide by zero. */
    if (bc_is_zero (n2)) return -1;

    /* Test for divide by 1. If it is we must truncate. */
    if (n2->n_scale == 0)
    {
        if (n2->n_len == 1 && *n2->n_value == 1)
        {
            qval = bc_new_num (n1->n_len, scale);
            qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
            memset (&qval->n_value[n1->n_len],0,scale);
            memcpy (qval->n_value, n1->n_value,
            n1->n_len + MIN(n1->n_scale,scale));
            bc_free_num (quot);
            *quot = qval;
        }
    }
/* Set up the divide. Move the decimal point on n1 by n2's scale.
   Remember, zeros on the end of num2 are wasted effort for dividing. */
    scale2 = n2->n_scale;
    n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
    while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

    len1 = n1->n_len + scale2;
    scale1 = n1->n_scale - scale2;
    if (scale1 < scale)
        extra = scale - scale1;
    else
        extra = 0;
    num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
    if (num1 == NULL) bc_out_of_memory();
    memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
    memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

    len2 = n2->n_len + scale2;
    num2 = (unsigned char *) malloc (len2+1);
    if (num2 == NULL) bc_out_of_memory();
    memcpy (num2, n2->n_value, len2);
    *(num2+len2) = 0;
    n2ptr = num2;
    while (*n2ptr == 0)
    {
        n2ptr++;
        len2--;
    }

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
    {
        qdigits = scale+1;
        zero = TRUE;
    }
else
    {
        zero = FALSE;
        if (len2>len1)
            qdigits = scale+1; /* One for the zero integer part. */
        else
            qdigits = len1-len2+scale+1;
    }

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale, scale);
memset (qval->n_value, 0, qdigits);
/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
{ /* Normalize */
    norm = 10 / ((int)*n2ptr + 1);
    if (norm != 1)
    { _one_mult (num1, len1+scale1+extra+1, norm, num1);
        _one_mult (n2ptr, len2, norm, n2ptr);
    }

    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
        qptr = (unsigned char *) qval->n_value+len2-len1;
    else
        qptr = (unsigned char *) qval->n_value;

    /* Loop */
    while (qdig <= len1+scale-len2)
    {
        /* Calculate the quotient digit guess. */
        if (*n2ptr == num1[qdig])
            qguess = 9;
        else
            qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

        /* Test qguess. */
        if (n2ptr[1]*qguess >
            (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
            + num1[qdig+2])
        {
            qguess--;
            /* And again. */
        if (n2ptr[1]*qguess >
            (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
            + num1[qdig+2])
            qguess--;
        }

        /* Multiply and subtract. */
        borrow = 0;
        if (qguess != 0)
{  
  *mval = 0;  
  _one_mult (n2ptr, len2, qguess, mval+1);  
  ptr1 = (unsigned char *) num1+qdig+len2;  
  ptr2 = (unsigned char *) mval+len2;  
  for (count = 0; count < len2+1; count++)  
  {  
    val = (int) *ptr1 - (int) *ptr2-- - borrow;  
    if (val < 0)  
    {  
      val += 10;  
      borrow = 1;  
    }  
    else  
    borrow = 0;  
    *ptr1-- = val;  
  }  
}  

/* Test for negative result. */  
if (borrow == 1)  
{  
  qguess--;  
  ptr1 = (unsigned char *) num1+qdig+len2;  
  ptr2 = (unsigned char *) n2ptr+len2-1;  
  carry = 0;  
  for (count = 0; count < len2; count++)  
  {  
    val = (int) *ptr1 + (int) *ptr2-- + carry;  
    if (val > 9)  
    {  
      val -= 10;  
      carry = 1;  
    }  
    else  
    carry = 0;  
    *ptr1-- = val;  
  }  
  if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;  
}  

/* We now know the quotient digit. */  
*qptr++ = qguess;  
qdig++;  
}  

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS);
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0; /* Everything is OK. */
}

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and
NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT
is NULL then that store will be omitted. */

int
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;
    int scale;
{
    bc_num quotient = NULL;
    bc_num temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero (num2)) return -1;

    /* Calculate final scale. */
    rscale = MAX (num1->n_scale, num2->n_scale+scale);
    bc_init_num(&temp);

    /* Calculate it. */
    bc_divide (num1, num2, &temp, scale);
    if (quot)
        quotient = bc_copy_num (temp);
    bc_multiply (temp, num2, &temp, rscale);
    bc_sub (num1, temp, rem, rscale);
    bc_free_num (&temp);

    if (quot)
    {
        bc_free_num (quot);
        *quot = quotient;
    }
*/ Modulo for numbers. This computes NUM1 % NUM2 and puts the
result in RESULT. */

int
bc_modulo (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD. The result is
placed in RESULT. If a EXPO is not an integer,
only the integer part is used. */

int
bc_raisemod (base, expo, mod, result, scale)
    bc_num base, expo, mod, *result;
    int scale;
{
    bc_num power, exponent, parity, temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero(mod)) return -1;
    if (bc_is_neg(expo)) return -1;

    /* Set initial values. */
    power = bc_copy_num (base);
    exponent = bc_copy_num (expo);
    temp = bc_copy_num (_one_);
    bc_init_num(&parity);

    /* Check the base for scale digits. */
    if (base->n_scale != 0)
        bc_rt_warn ("non-zero scale in base");

    /* Check the exponent for scale digits. */
    if (exponent->n_scale != 0)
    {
        bc_rt_warn ("non-zero scale in exponent");
        bc_divide (exponent, _one_, &exponent, 0); /*truncate */
/* Check the modulus for scale digits. */
if (mod->n_scale != 0)
    bc_rt_warn("non-zero scale in modulus");

/* Do the calculation. */
rscale = MAX(scale, base->n_scale);
while ( !bc_is_zero(exponent) )
{
    (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
    if ( !bc_is_zero(parity) )
    {
        bc_multiply (temp, power, &temp, rscale);
        (void) bc_modulo (temp, mod, &temp, scale);
    }
    bc_multiply (power, power, &power, rscale);
    (void) bc_modulo (power, mod, &power, scale);
}

/* Assign the value. */
bc_free_num (&power);
bc_free_num (&exponent);
bc_free_num (result);
*result = temp;
return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT. 
Maximum exponent is LONG_MAX. If a NUM2 is not an integer, 
only the integer part is used. */
void
bc_raise (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    bc_num temp, power;
    long exponent;
    int rscale;
    int pwrscale;
    int calcscale;
    char neg;

    /* Check the exponent for scale digits and convert to a long. */
    if (num2->n_scale != 0)
        bc_rt_warn("non-zero scale in exponent");
exponent = bc_num2long (num2);
if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
    bc_rt_error ("exponent too large in raise");

/* Special case if exponent is a zero. */
if (exponent == 0)
{
    bc_free_num (result);
    *result = bc_copy_num (_one_);
    return;
}

/* Other initializations. */
if (exponent < 0)
{
    neg = TRUE;
    exponent = -exponent;
    rscale = scale;
}
else
{
    neg = FALSE;
    rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
}

/* Set initial value of temp. */
power = bc_copy_num (num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    exponent = exponent >> 1;
}
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
        calcscale = pwrscale + calcscale;
        bc_multiply (temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
/* Assign the value. */
if (neg)
{
    bc_divide (_one_, temp, result, rscale);
    bc_free_num (&temp);
}
else
{
    bc_free_num (result);
    *result = temp;
    if ((*result)->n_scale > rscale)
        (*result)->n_scale = rscale;
}  
bc_free_num (&power);

/* Take the square root NUM and return it in NUM with SCALE digits
after the decimal place. */

int
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
    int rscale, cmp_res, done;
    int cscale;
    bc_num guess, guess1, point5, diff;

    /* Initial checks. */
    cmp_res = bc_compare (*num, _zero_);
    if (cmp_res < 0)
        return 0;/* error */
    else
    {
        if (cmp_res == 0)
        {
            bc_free_num (num);
            *num = bc_copy_num (_zero_);
            return 1;
        }
    }
    cmp_res = bc_compare (*num, _one_);
    if (cmp_res == 0)
    {
        bc_free_num (num);
        *num = bc_copy_num (_one_);  
    
}
return 1;
}

/* Initialize the variables. */
rscale = MAX(scale, (*num)->n_scale);
bc_init_num(&guess);
bc_init_num(&guess1);
bc_init_num(&diff);
point5 = bc_new_num (1,1);
point5->n_value[1] = 5;

/* Calculate the initial guess. */
if (cmp_res < 0)
{
/* The number is between 0 and 1. Guess should start at 1. */
guess = bc_copy_num (_one_);
cscale = (*num)->n_scale;
}
else
{
/* The number is greater than 1. Guess should start at 10^(exp/2). */
bc_int2num (&guess,10);

cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
bc_free_num (&guess1);
guess1 = bc_copy_num (guess);
bc_divide (*num, guess, &guess, cscale);
bc_add (guess, guess1, &guess, 0);
bc_multiply (guess, point5, &guess, cscale);
bc_sub (guess, guess1, &diff, cscale+1);
if (bc_is_near_zero (diff, cscale))
{
if (cscale < rscale+1)

cscale = MIN (cscale*3, rscale+1);
else
done = TRUE;
/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess, _one_, num, rscale);
bc_free_num (&guess);
bc_free_num (&guess1);
bc_free_num (&point5);
bc_free_num (&diff);
return 1;
}

#ifndef _KLIB_H
#endif

/* The following routines provide output for bcd numbers package using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
  long  digit;
  struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";

void
bc_out_long (val, size, space, out_char)
  long val;
  int size, space;
#else
  void (*out_char)(int);
#endif
  {
  char digits[40];
  int len, ix;

  if (space) (*out_char) (space);
  sprintf (digits, "%lld", val);
  len = strlen (digits);

  if (len > size) {
    if (space) (*out_char) (space);
    sprintf (digits, "%s", digits);
    len = strlen (digits);

    if (len > size) {
      if (space) (*out_char) (space);
      sprintf (digits, "%*s", size, digits);
      len = strlen (digits);
    }
  }

  (*out_char) (digits);
  }
while (size > len)
{
    (*out_char) ('0');
    size--;
}
for (ix=0; ix < len; ix++)
    (*out_char) (digits[ix]);

/* Output of a bcd number.  NUM is written in base O_BASE using OUT_CHAR as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
{
    char *nptr;
    int  index, fdigit, pre_space;
    stk_rec *digits, *temp;
    bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

    /* The negative sign if needed. */
    if (num->n_sign == MINUS) (*out_char) ('-');

    /* Output the number. */
    if (bc_is_zero (num))
        (*out_char) ('0');
    else
        if (o_base == 10)
            /* The number is in base 10, do it the fast way. */
            nptr = num->n_value;
            if (num->n_len > 1 || *nptr != 0)
                for (index=num->n_len; index>0; index--)
                    (*out_char) (BCD_CHAR(*nptr++));
            else
                nptr++;
        else
            if (leading_zero && bc_is_zero (num))
                (*out_char) ('0');
/* Now the fraction. */
if (num->n_scale > 0)
{
    (*out_char) ('.');
    for (index=0; index<num->n_scale; index++)
        (*out_char) (BCD_CHAR(*nptr++));
}
}
else
{
    /* special case ... */
    if (leading_zero && bc_is_zero (num))
        (*out_char) ('0');

    /* The number is some other base. */
    digits = NULL;
    bc_init_num (&int_part);
    bc_divide (num, _one_, &int_part, 0);
    bc_init_num (&frac_part);
    bc_init_num (&cur_dig);
    bc_init_num (&base);
    bc_sub (num, int_part, &frac_part, 0);
    /* Make the INT_PART and FRAC_PART positive. */
    int_part->n_sign = PLUS;
    frac_part->n_sign = PLUS;
    bc_int2num (&base, o_base);
    bc_init_num (&max_o_digit);
    bc_int2num (&max_o_digit, o_base-1);

    /* Get the digits of the integer part and push them on a stack. */
    while (!bc_is_zero (int_part))
    {
        bc_modulo (int_part, base, &cur_dig, 0);
        temp = (stk_rec *) malloc (sizeof(stk_rec));
        if (temp == NULL) bc_out_of_memory();
        temp->digit = bc_num2long (cur_dig);
        temp->next = digits;
        digits = temp;
        bc_divide (int_part, base, &int_part, 0);
    }

    /* Print the digits on the stack. */
    if (digits != NULL)
    {
        /* Output the digits. */
        while (digits != NULL)
        {

temp = digits;
digits = digits->next;
if (o_base <= 16)
  (*out_char) (ref_str[(int) temp->digit]);
else
  bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
free (temp);
}

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
  (*out_char) ('.);
  pre_space = 0;
t_num = bc_copy_num (_one_);
  while (t_num->n_len <= num->n_scale) {
    bc_multiply (frac_part, base, &frac_part, num->n_scale);
    fdigit = bc_num2long (frac_part);
    bc_int2num (&int_part, fdigit);
    bc_sub (frac_part, int_part, &frac_part, 0);
    if (o_base <= 16)
      (*out_char) (ref_str[fdigit]);
    else {
      bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
      pre_space = 1;
    }
    bc_multiply (t_num, base, &t_num, 0);
  }
  bc_free_num (&t_num);
}

/* Clean up. */
bc_free_num (&int_part);
broadcast (&frac_part);
broadcast (&base);
broadcast (&cur_dig);
broadcast (&max_o_digit);
}

/* Convert a number NUM to a long. The function returns only the integer
part of the number. For numbers that are too large to represent as
a long, this function returns a zero. This can be detected by checking
the NUM for zero after having a zero returned. */

long
bc_num2long (num)
  bc_num num;


long val;
char *nptr;
int index;

/* Extract the int value, ignore the fraction. */
val = 0;
nptr = num->n_value;
for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
    val = val*BASE + *nptr++;

/* Check for overflow. If overflow, return zero. */
if (index>0) val = 0;
if (val < 0) val = 0;

/* Return the value. */
if (num->n_sign == PLUS)
    return (val);
else
    return (-val);

/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num (num, val)
    bc_num *num;
    int val;
{
    char buffer[30];
    char *bptr, *vptr;
    int ix = 1;
    char neg = 0;

    /* Sign. */
    if (val < 0)
    {
        neg = 1;
        val = -val;
    }

    /* Get things going. */
bptr = buffer;
    *bptr++ = val % BASE;
    val = val / BASE;

    /* Extract remaining digits. */
while (val != 0)
{
    *bptr++ = val % BASE;
    val = val / BASE;
    ix++; /* Count the digits. */
}

/* Make the number. */
bc_free_num (num);
*num = bc_new_num (ix, 0);
if (neg) (*num)->n_sign = MINUS;

/* Assign the digits. */
vptr = (*num)->n_value;
while (ix-- > 0)
    *vptr++ = *--bptr;
}

/* Convert a numbers to a string. Base 10 only. */

char
*num2str (num)
    bc_num num;
{
    char *str, *sptr;
    char *nptr;
    int index, signch;

    /* Allocate the string memory. */
    signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
    if (num->n_scale > 0)
        str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
    else
        str = (char *) malloc (num->n_len + 1 + signch);
    if (str == NULL) bc_out_of_memory();

    /* The negative sign if needed. */
    sptr = str;
    if (signch) *sptr++ = '-';

    /* Load the whole number. */
    nptr = num->n_value;
    for (index=num->n_len; index>0; index--)
        *sptr++ = BCD_CHAR(*nptr++);

    /* Now the fraction. */
    if (num->n_scale > 0)
        
}
*sptr++ = '.';
for (index=0; index<num->n_scale; index++)
*sptr++ = BCD_CHAR(*nptr++);
}
/* Terminate the string and return it! */
*sptr = '\0';
return (str);
}
/* Convert strings to bc numbers. Base 10 only.*/
void
bc_str2num (num, str, scale)
bc_num *num;
char *str;
int scale;
{
int digits, strscale;
char *ptr, *nptr;
char zero_int;
/* Prepare num. */
bc_free_num (num);
/* Check for valid number and count digits. */
ptr = str;
digits = 0;
strscale = 0;
zero_int = FALSE;
if ( (*ptr == '+') || (*ptr == '-')) ptr++; /* Sign */
while (*ptr == '0') ptr++;/* Skip leading zeros. */
while (isdigit((int)*ptr)) ptr++, digits++;/* digits */
if (*ptr == '.') ptr++;/* decimal point */
while (isdigit((int)*ptr)) ptr++, strscale++;/* digits */
if ((*ptr != '\0') || (digits+strscale == 0))
{
*num = bc_copy_num (_zero_);
return;
}
/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
{
zero_int = TRUE;
digits = 1;
}
*num = bc_new_num (digits, strscale);

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/* Build the whole number. */
ptr = str;
if (*ptr == '-')
{
    (*num)->n_sign = MINUS;
    ptr++;
}
else
{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
    digits = 0;
}
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);

/* Build the fractional part. */
if (strscale > 0)
{
    ptr++; /* skip the decimal point! */
    for (;strscale > 0; strscale--)
        *nptr++ = CH_VAL(*ptr++);
}

/* pn prints the number NUM in base 10. */

static void
out_char (int c)
{
    putchar(c);
}

void
pn (num)
    bc_num num;
{
    bc_out_num (num, 10, out_char, 0);
    out_char ('\n');
/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
    char *name;
    unsigned char *num;
    int len;
{
    int i;
    printf ("%s=", name);
    for (i=0; i<len; i++) printf ("%c", BCD_CHAR(num[i]));
    printf ("\n");
}

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^L

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1.1103 kerberos 1.12

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lib/krb5/kadm5/kadm_host_srv_names.c

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lib/libgss/g_compare_name.c

lib/libgss/g_directory.c

lib/libgss/g_delete_sec_context.c

lib/libgss/g_dsp_name.c

lib/libgss/g_dup_name.c
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lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
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lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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lib/gssapi/mechglue/g_compare_name.c
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lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.1106 cxf-rt-wsdl 3.3.6

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1.1107 artemis-dto 2.10.1

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1.1124 e2fsprogs 1.42.13 1ubuntu1.1

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*/
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$<BSD_LIB>

$<BSD_LIB>: $<OBJ>
(cd pic; ld -Bshareable -o $<BSD_LIB> $<LDFLAGS_SHLIB> $<OBJ>)
$<MV> pic/$<BSD_LIB>
$<RM> -f ../$<BSD_LIB>
(cd ..; $<LN> $<LINK_BUILD_FLAGS> \n `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSDLIB) $<BSD_LIB>)

install-shlibs install:: $<BSD_LIB>
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSDLIB)"
@$<INSTALL_PROGRAM> $(BSDLIB) $(BSDLIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSDLIB) @-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$<RM> -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSDLIB)

clean::
$<RM> -rf pic
$<RM> -f $(BSD_LIB)
$<RM> -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  version: 3

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); }

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();
# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "\n;
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'';

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'';

    $year;
}
1.1140 python-ecdsa 0.15

1.1140.1 Available under license:

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1.1141 lrzsz 0.12.20

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```
## Special Recognition ##
```

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire build system we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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The textbook (containing a proof that the shuffle is uniformly random) is available here:
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+ Torsten Landschoff <torsten@debian.org>

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Written by: Philip Hazel
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1.1176 jansi-osx 1.6

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* <code>Collection</code> elements.
* <p>
* Special consideration should be given to using an <code>AfterInvocationManager</code>
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* <code>public DomainObject getbyId(id) </code>. If used with methods that modify a
* database, a transaction manager should be used to ensure any
* <code>AccessDeniedException</code> will cause a rollback of the changes made by the
* transaction.
* </p>
* <p>
* @author Ben Alex
*/

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jar/org/springframework/security/access/intercept/AfterInvocationManager.java
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  jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
  jar/org/springframework/security/crypto/util/EncodingUtils.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
  jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
  jar/org/springframework/security/crypto/keygen/KeyGenerators.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
  jar/org/springframework/security/crypto/encrypt/BouncyCastleAesGcmBytesEncryptor.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
  jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
  jar/org/springframework/security/crypto/encrypt/BouncyCastleAesBytesEncryptor.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
  jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
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  jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java
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  jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
  jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java
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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources.jar/org/springframework/security/core/annotation/AuthenticationPrincipal.java

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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources.jar/org/springframework/security/crypto/scrypt/SCryptPasswordEncoder.java
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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources.jar/org/springframework/security/authorization/AuthenticatedReactiveAuthorizationManager.java
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 */
/**
 * A token issued by {@link TokenService}.
 *
 * It is important that the keys assigned to tokens are sufficiently randomised and
 * secured that they can serve as identifying a unique user session. Implementations of
 * {@link TokenService} are free to use encryption or encoding strategies of their choice.
 * It is strongly recommended that keys are of sufficient length to balance safety against
 * persistence cost. In relation to persistence cost, it is strongly recommended that
 * returned keys are small enough for encoding in a cookie.
 *
 * @author Ben Alex
* @since 2.0.1
*/

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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/core/token/Token.java
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*/
/**
 *
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
 * checked. May be null in which case implementations should return false, as the null
 * condition can be checked explicitly in the expression.
 * @param permission a representation of the permission object as supplied by the
 * expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/access/PermissionEvaluator.java
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*/
/**
 * Determines if the {@link #getAuthentication()} has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * "write", etc).
 * @return true if permission is granted to the {@link #getAuthentication()}, else
 * false
 */

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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/core/token/Sha512DigestUtils.java
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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/access/prepost/PreAuthorize.java
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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/core/userdetails/cache/package-info.java
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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/access/prepost/PreInvocationAuthorizationAdviceVoter.java
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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/access/prepost/PrePostAdviceReactiveMethodInterceptor.java
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  jar/org/antlr/v4/runtime/tree/pattern/ParseTreePattern.java

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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5.1-sources.jar/antlr/v4/runtime/BufferedTokenStream.java
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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
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1.1192 jcommander 1.48
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1.1193 adal 1.2.7

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Metadata-Version: 2.1
Name: adal
Version: 1.2.7
Summary: Note: This library is already replaced by MSAL Python, available here: https://pypi.org/project/ msal/.
ADAL Python remains available here as a legacy. The ADAL for Python library makes it easy for python
application to authenticate to Azure Active Directory (AAD) in order to access AAD protected web resources.
Home-page: https://github.com/AzureAD/azure-active-directory-library-for-python
Author: Microsoft Corporation
Author-email: nugetaad@microsoft.com
License: MIT
Description: ---

This library, ADAL for Python, will no longer receive new feature improvements. Instead, use the new library
[MSAL for Python](https://github.com/AzureAD/microsoft-authentication-library-for-python).

* If you are starting a new project, you can get started with the
  [MSAL Python docs](https://github.com/AzureAD/microsoft-authentication-library-for-python/wiki)
  for details about the scenarios, usage, and relevant concepts.
* If your application is using the previous ADAL Python library, you can follow this
  [migration guide](https://docs.microsoft.com/en-us/azure/active-directory/develop/migrate-python-adal-msal)
  to update to MSAL Python.
* Existing applications relying on ADAL Python will continue to work.

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# Microsoft Azure Active Directory Authentication Library (ADAL) for Python

`master` branch  | `dev` branch  | Reference Docs  
-----------------|--------------|---------------
[Getting Started](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki) | [Docs](https://aka.ms/aaddev) | [Python Samples](https://github.com/Azure-Samples?q=active-directory&language=python) | [Support](README.md#community-help-and-support) | [Feedback](https://forms.office.com/r/wX0UuEF8kX)  
| --- | --- | --- | --- | --- |

The ADAL for Python library enables python applications to authenticate with Azure AD and get tokens to access Azure AD protected web resources.

You can learn in detail about ADAL Python functionality and usage documented in the [Wiki](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki).

## Installation and Usage

You can find the steps to install and basic usage of the library under [ADAL Basics](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki/ADAL-basics) page in the Wiki.

## Samples and Documentation

We provide a full suite of [Python sample applications on GitHub](https://github.com/Azure-Samples?q=active-directory&language=python) to help you get started with learning the Azure Identity system. This will include tutorials for native clients and web applications. We also provide full walkthroughs for authentication flows such as OAuth2, OpenID Connect and for calling APIs such as the Graph API.

There are also some [lightweight samples existing inside this repo](https://github.com/AzureAD/azure-activedirectory-library-for-python/tree/dev/sample).

You can find the relevant samples by scenarios listed in this [wiki page for acquiring tokens using ADAL Python](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki/Acquire-tokens#adal-python-apis-for-corresponding-flows).

The documents on [Auth Scenarios](https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-authentication-scenarios#application-types-and-scenarios) and [Auth protocols](https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-protocols-openid-connect-code) are recommended reading.
## Versions

This library follows [Semantic Versioning](https://semver.org/).

You can find the changes for each version under [Releases](https://github.com/AzureAD/azure-activedirectory-library-for-python/releases).

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We recommend you use the "adal" tag so we can see it! Here is the latest Q&A on Stack Overflow for ADAL: [https://stackoverflow.com/questions/tagged/adal](https://stackoverflow.com/questions/tagged/adal)

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Platform: UNKNOWN
Classifier: Development Status :: 6 - Mature
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
This library, ADAL for Python, will no longer receive new feature improvements. Instead, use the new library
* If you are starting a new project, you can get started with the [MSAL Python docs](https://github.com/AzureAD/microsoft-authentication-library-for-python/wiki) for details about the scenarios, usage, and relevant concepts.
* If your application is using the previous ADAL Python library, you can follow this [migration guide](https://docs.microsoft.com/en-us/azure/active-directory/develop/migrate-python-adal-msal) to update to MSAL Python.
* Existing applications relying on ADAL Python will continue to work.

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Found in path(s):
* /opt/cola/permits/1167357645_1621634059.61/0/adal-1-2-7-tar-gz/adal-1.2.7/README.md

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1.1194 iconv 2.17

1.1194.1 Available under license:

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Version 3, 29 June 2007

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1.1195 uritemplate 3.0.1

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1.1196 openssh 8.3_p1-r0

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* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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1.1197 roaringbitmap 0.7.17

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1.1198 slf4j-ext 1.7.22.jbossorg-1

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1.1199 go-msgpack 0.5.5
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1.1200 neo4j-index 4.1.7

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```
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KeyAgreement:      ECDH
Signature:         names that include *withECDSA*
```

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```
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## DOM Level 3 Core Specification v1.0

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1.1207 iso-codes 3.65-1

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# Contributions to the urllib3 project

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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
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* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
* App Engine environment tests.

* John Krauss <https://github.com/talos>
* Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix
* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ```HTTPResponse.stream()```.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

---

1.1214 goprotobuf 1.3.1

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1.1215 sysv-init 2.88dsf 59.3ubuntu2

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.1216 lua 5.3.5
1.1217 akka 2.5.22

1.1217.1 Available under license:

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Theodore Ts'o
23-June-2007

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1.1219 golang-snappy 0.0.1

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1.1220 netty 4.1.32.Final

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas

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include/GL/wglxext.h :

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/**
* Encodes and decodes to and from Base64 notation. <p/> <p> Change Log: </p>
* <ul> <li>v2.1 - Cleaned up javadoc comments and unused variables and
* methods. Added some convenience methods for reading and writing to and from
* files. </li> <li>v2.0.2 - Now specifies UTF-8 encoding in places where the
* code fails on systems with other encodings (like EBCDIC). </li> <li>v2.0.1 -
* Fixed an error when decoding a single byte, that is, when the encoded data
* was a single byte. </li> <li>v2.0 - I got rid of methods that used booleans
* to set options. Now everything is more consolidated and cleaner. The code
* now detects when data that’s being decoded is gzip-compressed and will
* decompress it automatically. Generally things are cleaner. You’ll probably
* have to change some method calls that you were making to support the new
* options format (<tt>int</tt>s that you "OR" together).

* Fixed bug when decompressing and decoding to a byte[] using <tt>decode(<br>
* String s, boolean gzipCompressed )</tt>. Added the ability to "suspend"
* encoding in the Output Stream so you can turn on and off the encoding if you
* need to embed base64 data in an otherwise "normal" stream (like an XML
* file).<br>

* v1.5 - Output stream pases on flush() command but doesn't do
* anything itself. This helps when using GZIP streams. Added the ability to
* GZip-compress objects before encoding them.<br>

* v1.4 - Added helper
* methods to read/write files.<br>

* v1.3.6 - Fixed OutputStream.flush() so
* that 'position' is reset.<br>

* v1.3.5 - Added flag to turn on and off
* line breaks. Fixed bug in input stream where last buffer being read, if not
* completely full, was not returned.<br>

* v1.3.4 - Fixed when "improperly
* padded stream" error was thrown at the wrong time.<br>

* v1.3.3 - Fixed
* I/O streams which were totally messed up.<br>

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* Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* periodically to check for updates or to contribute improvements. </p><p>

* @author Robert Harder

* @author rob@iharder.net

* @since 4.2

* @deprecated Not currently used internally by Infinispan; will be removed in ver. 10. Other users are advised to
* replace it with [@link java.util.Base64].

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1.1228 audit 2.4.5 1ubuntu2.1

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1.1233 isodate 0.6.0
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Metadata-Version: 1.1
Name: isodate
Version: 0.6.0
Summary: An ISO 8601 date/time/duration parser and formatter
Home-page: https://github.com/gweis/isodate/
Author: Gerhard Weis
Author-email: gerhard.weis@proclos.com
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Description:
    ISO 8601 date/time parser
This module implements ISO 8601 date, time and duration parsing. The implementation follows ISO8601:2004 standard, and implements only date/time representations mentioned in the standard. If something is not mentioned there, then it is treated as non existent, and not as an allowed option.

For instance, ISO8601:2004 never mentions 2 digit years. So, it is not intended by this module to support 2 digit years. (while it may still be valid as ISO date, because it is not explicitly forbidden.) Another example is, when no time zone information is given for a time, then it should be interpreted as local time, and not UTC.

As this module maps ISO 8601 dates/times to standard Python data types, like *date*, *time*, *datetime* and *timedelta*, it is not possible to convert all possible ISO 8601 dates/times. For instance, dates before 0001-01-01 are not allowed by the Python *date* and *datetime* classes. Additionally fractional seconds are limited to microseconds. That means if the parser finds for instance nanoseconds it will round it to microseconds.

Documentation
-------------

Currently there are four parsing methods available.

* parse_time:
  parses an ISO 8601 time string into a *time* object
* parse_date:
  parses an ISO 8601 date string into a *date* object
* parse_datetime:
  parses an ISO 8601 date-time string into a *datetime* object
* parse_duration:
  parses an ISO 8601 duration string into a *timedelta* or *Duration* object.
parse_tzinfo:
parses the time zone info part of an ISO 8601 string into a
tzinfo* object.

As ISO 8601 allows to define durations in years and months, and *timedelta*
does not handle years and months, this module provides a *Duration* class,
which can be used almost like a *timedelta* object (with some limitations).
However, a *Duration* object can be converted into a *timedelta* object.

There are also ISO formatting methods for all supported data types. Each
*xxx_isoformat* method accepts a format parameter. The default format is
always the ISO 8601 expanded format. This is the same format used by
*datetime.isoformat*:

* time_isoformat:
  Intended to create ISO time strings with default format
  *hh:mm:ssZ*.
* date_isoformat:
  Intended to create ISO date strings with default format
  *yyyy-mm-dd*.
* datetime_isoformat:
  Intended to create ISO date-time strings with default format
  *yyyy-mm-ddThh:mm:ssZ*.
* duration_isoformat:
  Intended to create ISO duration strings with default format
  *PnnYnnMnnDTnnHnnMnnS*.
* tz_isoformat:
  Intended to create ISO time zone strings with default format
  *hh:mm*.
* strftime:
  A re-implementation mostly compatible with Python's *strftime*, but
  supports only those format strings, which can also be used for dates
  prior 1900. This method also understands how to format *datetime* and
  *Duration* instances.

Installation:
-------------

This module can easily be installed with Python standard installation methods.

Either use *python setup.py install* or in case you have *setuptools* or
*distribute* available, you can also use *easy_install*.

Limitations:
------------

* The parser accepts several date/time representation which should be invalid
  according to ISO 8601 standard.
1. for date and time together, this parser accepts a mixture of basic and extended format. e.g. the date could be in basic format, while the time is accepted in extended format. It also allows short dates and times in date-time strings.
2. For incomplete dates, the first day is chosen. e.g. 19th century results in a date of 1901-01-01.
3. negative *Duration* and *timedelta* value are not fully supported yet.

Further information:
-------------------

The doc strings and unit tests should provide rather detailed information about the methods and their limitations.

The source release provides a *setup.py* script, which can be used to run the unit tests included.

Source code is available at `<http://github.com/gweis/isodate>`.

CHANGES
=======

0.6.0 (2017-10-13)
------------------
- support incomplete month date (Fabien Loffredo)
- rely on duck typing when doing duration maths
- support ':' as separator in fractional time zones (usrenmae)

0.5.4 (2015-08-06)
------------------
- Fix parsing of Periods (Fabien Bochu)
- Make Duration objects hashable (Geoffrey Fairchild)
- Add multiplication to duration (Reinoud Elhorst)

0.5.1 (2014-11-07)
------------------
- fixed pickling of Duration objects
- raise ISO8601Error when there is no 'T' separator in datetime strings (Adrian Coveney)

0.5.0 (2014-02-23)
------------------
- ISO8601Error are subclasses of ValueError now (Michael Hrivnak)
- improve compatibility across various python variants and versions
- raise exceptions when using fractional years and months in date maths with durations
- renamed method todatetime on Duration objects to totimedelta

0.4.9 (2012-10-30)
------------------
- support pickling FixedOffset instances
- make sure parsed fractional seconds are in microseconds
- add leading zeros when formatting microseconds (Jarom Loveridge)

0.4.8 (2012-05-04)
------------------
- fixed incompatibility of unittests with python 2.5 and 2.6 (runs fine on 2.7 and 3.2)

0.4.7 (2012-01-26)
------------------
- fixed tzinfo formatting (never pass None into tzinfo.utcoffset())

0.4.6 (2012-01-06)
------------------
- added Python 3 compatibility via 2to3

0.4.5 (2012-01-06)
------------------
- made setuptools dependency optional

0.4.4 (2011-04-16)
------------------
- Fixed formatting of microseconds for datetime objects

0.4.3 (2010-10-29)
------------------
- Fixed problem with %P formatting and fractions (supplied by David Brooks)
0.4.2 (2010-10-28)
------------------
- Implemented unary - for Duration (supplied by David Brooks)
- Output fractional seconds with '%P' format. (partly supplied by David Brooks)

0.4.1 (2010-10-13)
------------------
- fixed bug in comparison between timedelta and Duration.
- fixed precision problem with microseconds (reported by Tommi Virtanen)

0.4.0 (2009-02-09)
------------------
- added method to parse ISO 8601 time zone strings
- added methods to create ISO 8601 conforming strings

0.3.0 (2009-1-05)
------------------
- Initial release

TODOs
=====

This to do list contains some thoughts and ideas about missing features, and parts to think about, whether to implement them or not. This list is probably not complete.

Missing features:
-----------------
* time formatting does not allow to create fractional representations.
* parser for ISO intervals.
* currently microseconds are always padded to a length of 6 characters. trailing 0s should be optional

Documentation:
---------------
* parse_datetime:
  - complete documentation to show what this function allows, but ISO forbids. and vice versa.
  - support other separators between date and time than 'T'

* parse_date:
  - yeardigits should be always greater than 4
- dates before 0001-01-01 are not supported

* parse_duration:
  - alternative formats are not fully supported due to parse_date restrictions
  - standard duration format is fully supported but not very restrictive.

* Duration:
  - support fractional years and month in calculations
  - implement w3c order relation? ("<http://www.w3.org/TR/xmlschema-2/#duration-order>"
  - refactor to have duration mathematics only at one place.
  - localize __str__ method (does timedelta do this?)
  - when is a Duration negative?
  - normalize Durations. months [00-12] and years [-inf,+inf]

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1.1235 neo4j-procedure 4.1.7

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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Manifest-Version: 1.0
Bundle-Description: APIs for Jakarta CDI (Contexts and Dependency Injection)
Bundle-License: https://repository.jboss.org/licenses/apache-2.0.txt
Bundle-SymbolicName: jakarta.enterprise.cdi-api
Archiver-Version: Plexus Archiver
Built-By: default
Bnd-LastModified: 1565451400486
Bundle-ManifestVersion: 2
Bundle-DocURL: https://jakarta.ee
Bundle-Vendor: Eclipse Foundation
Import-Package: javax.el;version="2.2",javax.inject,javax.interceptor;
version="[1.2,2)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-2.4.1.201501161923
Export-Package: javax.decorator;version="2.0",uses:="javax.enterprise.
inject",javax.enterprise.context;version="2.0",uses:="javax.enterpris
e.utiljavax.inject",javax.enterprise.context.control;version="2.0":uses:="j
context.spi;version="2.0",javax.enterprise.event;version="2.0":uses:="j
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Bundle-Name: Jakarta CDI
Bundle-Version: 2.0.2
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_202

Found in path(s):
* /opt/cola/permits/1136416130_1613765682.8/0/jakarta-enterprise-cdi-api-2-0-2-2-jar/META-INF/MANIFEST.MF

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io.helidon.config.yaml.internal.YamlFileTypeDetector
```

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io.helidon.config.yaml.internal.YamlConfigParser

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* /opt/cola/permits/1135869399_1613618193.60/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1135869399_1613618193.60/javassist-3-25-0-ga-sources-3-jar/javassist/CtPrimitiveType.java
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* /opt/cola/permits/1135869399_1613618193.60/javassist-3-25-0-ga-sources-3-jar.javassist.CtPrimitiveType.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
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  jar/javassist/bytecode/annotation/DoubleMemberValue.java
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/*OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLMNORM POLLWRNORM
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
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 *
 */
#ifndef _BSD_WAITPID_H

#endif

Open Source Used In SDWan 20.7.1 12979
```c
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)(*(int*)(w))/* convert union wait to int */
#define WIFEXITED(w)(!(_W_INT(w) & 0377))
#define WIFSTOPPED(w)(_W_INT(w) & 0100)
#define WIFSIGNALED(w)(!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)(_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

---

1.1245 dhcp 4.2.4-7ubuntu12.10

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

    Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cef2bb5b6.

    Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

    Author: Julio Merino <jmmv84@gmail.com>
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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<!-- $Id$ -->
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
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  </xsl:variable>
</xsl:stylesheet>
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This package was debianized by Nathan Scott nathans@debian.org on Tue, 26 Feb 2002 13:25:26 +1100

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function: `{ case (a, b) => ... }
   val x: ((Int, Int) => Int) = (((a, b)) => a)
   ^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }
   val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
   ^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple3,
   or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }
   val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
   ^

three errors found

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1.1260 jackson-databind 2.10.3

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1261 jboss-invocation 1.5.2.Final

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* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/InterceptorContext.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/InterceptorFactory.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation-proxy/DefaultConstructorBodyCreator.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation-proxy/DefaultSerializableProxy.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/proxy/MethodBodyCreator.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/InvocationMessages.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/proxy/AbstractClassFactory.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/proxy/ConstructorBodyCreator.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/proxy/InterceptorInstanceFactory.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/proxy/SerializableProxy.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/InvokingInterceptor.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/MethodInterceptor.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/SecurityIdentityInterceptor.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/SimpleInterceptorInstanceFactory.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/MethodInterceptorFactory.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/MethodInterceptorFactory.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/MethodInterceptorFactory.java
* /opt/ws_local/PERMITS_SQL/1074947038_1596001485.73/0/jboss-invocation/MethodInterceptorFactory.java
1.1262 insserv 1.14.0 5ubuntu3

1.1262.1 Available under license:

This package was debianized by Petter Reinholdtsen <pere@hungry.com> on Sun, 21 Aug 2005 11:20:54 +0200.

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### 1.1263 Jinja2 2.11.2

#### 1.1263.1 Available under license:

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```python
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)
```

Open Source Used In SDWan 20.7.1 13166
setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status :: 5 - Production/ Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.5",
        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
        "Programming Language :: Python :: 3.8",
        "Programming Language :: Python :: Implementation :: CPython",
        "Programming Language :: Python :: Implementation :: PyPy",
        "Topic :: Internet :: WWW/ HTTP :: Dynamic Content",
        "Topic :: Software Development :: Libraries :: Python Modules",
        "Topic :: Text Processing :: Markup :: HTML",
    ],
    packages=find_packages("src"),
    package_dir={":": "src"},
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*,",
    install_requires=["MarkupSafe>=0.23"],
    extras_require={"i18n": ["Babel>=0.8"]},
    entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"],
    })

Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py
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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`:

.. code-block:: text

$ pip install -U Jinja2


In A Nutshell
-------------

.. code-block:: jinja

    {% extends "base.html" %}
    {% block title %}Members{% endblock %}
    {% block content %}
<ul>
  {% for user in users %}
  <li><a href="{{ user.url }}">{{ user.username }}</a></li>
  {% endfor %}
</ul>

Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZh

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*
Description-Content-Type: text/x-rst
Provides-Extra: i18n

Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2.11.2-1.tar.gz/Jinja2-2.11.2/PKG-INFO
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2.11.2-1.tar.gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKG-INFO
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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

Assorted

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1.1288 cxf-rt-fronteend-jaxws 3.3.6

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1.1289 wildfly-core-management-client

11.1.1.Final

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1.1291 spring-hateoas 0.25.2.RELEASE

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/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}.
 *
 * <h3>Sub-types</h3>
 * <p>
 * {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
 * <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
 * <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * </p>
The context object

A `ChannelHandler` is provided with a `ChannelHandlerContext` object. A `ChannelHandler` is supposed to interact with the `ChannelPipeline` it belongs to via a context object. Using the context object, the `ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `AttributeKey`)s which is specific to the handler.

State management

A `ChannelHandler` often needs to store some stateful information.

The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private boolean loggedIn;

    @Override
    public void channelRead0(@ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See `ChannelInitializer#initChannel(Channel)`.
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel ch) {
        // Create a new handler instance per channel.
    }
}
```
public void initChannel(@link Channel} channel) {
    channel.pipeline().addLast("handler", new DataServerHandler());
}

<h4>Using {@link AttributeKey}s</h4>

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use {@link AttributeKey}s which is provided by

```java
public interface Message {
    // your methods here
}
```

```java
@Sharable
public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {
    private final @link AttributeKey<{@link Boolean}> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(@link ChannelHandlerContext} ctx, Message message) {
        @link Attribute<{@link Boolean}> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
    ...
}
```

Now that the state of the handler is attached to the @link ChannelHandlerContext, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends @link ChannelInitializer}{
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(@link Channel} channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
```
* public void initChannel({@link Channel} channel) {
*     channel.pipeline().addLast("handler", <b>SHARED</b>);
* }
* </pre>

*<h4>The {@code @Sharable} annotation</h4>*

* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
*<p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
*<p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
*<p>
* This annotation is provided for documentation purpose, just like
*<p>
*<h3>Additional resources worth reading</h3>*

* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
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   analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
   analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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* /opt/cola/permits/1102648017_1603824195.55/0/slf4j-log4j12-2-0-0-alpha1-sources-1-
  jar/org/slf4j/log4j12/Log4jLoggerFactory.java
* /opt/cola/permits/1102648017_1603824195.55/0/slf4j-log4j12-2-0-0-alpha1-sources-1-
  jar/org/slf4j/log4j12/Log4jLoggerAdapter.java
* /opt/cola/permits/1102648017_1603824195.55/0/slf4j-log4j12-2-0-0-alpha1-sources-1-
  jar/org/slf4j/log4j12/Log4jMDCAdapter.java

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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```

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@c man end

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==================================================================
Building and Distributing Packages with Setuptools
==================================================================
``Setuptools`` is a collection of enhancements to the Python `distutils` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using `setuptools` look to the user like ordinary Python packages based on the `distutils`. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By including just a single `bootstrap module` (a 12K .py file), your package will automatically download and install `setuptools` if the user is building your package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <easy_install.html>`_, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ - a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a ``MANIFEST.in`` file, and without having to force regeneration of the ``MANIFEST`` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI
* Deploy your project in "development mode", such that it's available on 
  ``sys.path`` , yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or ``setup()`` arguments, and 
  distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover 
  extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of ``setuptools``
 is available from the `Python SVN sandbox`_, and in-development versions of the
 `0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`_

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Developer's Guide
-----------------

Installing ``setuptools``

Please follow the `EasyInstall Installation Instructions`_ to install the 
 current stable version of setuptools. In particular, be sure to read the 
 section on `Custom Installation Locations`_ if you are installing anywhere 
 other than Python's ``site-packages`` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

.. _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first 
 install a stable version, and then run::

    ez_setup.py setuptools==dev

This will download and install the latest development (i.e. unstable) version 
 of setuptools from the Python Subversion sandbox.
Basic Use

For basic use of setuptools, just import things from setuptools instead of the distutils. Here’s a minimal setup script using setuptools:

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
)
```

As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.

Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the ‘Command Reference’ section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke:

```bash
python setup.py sdist
```

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts:

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],
    # Project uses reStructuredText, so ensure that the docutils get installed or upgraded on the target machine
    install_requires = ['docutils>=0.3'],
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '*.txt', '*.rst',
        # And include any *.msg files found in the 'hello' package, too:
        'hello': '*.msg',
    },
```

```bash
python setup.py sdist
```
Specifying Your Project's Version
----------------------------------

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as `2.4` or `0.5`. Each series of digits is treated numerically, so releases `2.1` and `2.1.0` are different ways to spell the same release number, denoting the first subrelease of release 2. But `2.10` is the *tenth* subrelease of release 2, and so is a different and newer release from `2.1` or `2.1.0`. Leading zeros within a series of digits are also ignored, so `2.01` is the same as `2.1`, and different from `2.0.1`.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision `2.4` is *newer* than revision `2.4c`, which in turn is newer than `2.4b` or `2.4a`. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like `2.4-1` and `2.4pl3` are newer than `2.4`, but are *older* than `2.4.1` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include "alpha", "beta", "a", "c", "dev", and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, `2.4c` and `2.4.c` and `2.4-c` all
represent release candidate 1 of version "2.4", and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter "c": "pre", "preview", and "rc". So, version "2.4rc1", "2.4pre1" and "2.4preview1" are all the exact same version as "2.4c1", and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash ("-"). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version "2.4-r1263" might denote Subversion revision 1263 of a post-release patch of version "2.4". Or you might use "2.4-20051127" to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, "0.6a9.dev-r41475" could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that "dev" is a pre-release tag, so this version is a *lower* version number than "0.6a9", which would be the actual ninth alpha of release 0.6. But the "-r41475" is a post-release tag, so this version is *newer* than "0.6a9.dev".

For the most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number between them. Version "1.9adev" is the "adev" prerelease of "1.9", *not* a development pre-release of "1.9a". Use ".dev" instead, as in "1.9a.dev", or separate the prerelease tags with a number, as in "1.9a0dev". "1.9.a.dev", "1.9a0dev", and even "1.9.a.dev" are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the `pkg_resources.parse_version()` function to compare different version numbers:

```python
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True
```

Once you've decided on a version numbering scheme for your project, you can
have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* Tagging and "Daily Build" or "Snapshot" Releases*
* Managing "Continuous Releases" Using Subversion*
* The `egg_info` command

New and Changed `setup()` Keywords

The following keyword arguments to `setup()` are added or changed by `setuptools`. All of them are optional; you do not have to supply them unless you need the associated `setuptools` feature.

``include_package_data``
If set to "True", this tells `setuptools` to automatically include any data files it finds inside your package directories that are specified by your `MANIFEST.in` file. For more information, see the section below on `Including Data Files`.

``exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should be excluded from your package directories. You can use this to trim back any excess files included by `include_package_data`. For a complete description and examples, see the section below on `Including Data Files`.

``package_data``
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`. You do not need to use this option if you are using `include_package_data`, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the `bdist_egg` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins` for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to be present in order for the *setup script* to run. `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in ``setup_requires`` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the ./eggs directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to ``install_requires`` **and/or** ``setup_requires``.)

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by ``setup_requires`` or ``tests_require``. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an `*.egg` file.

``namespace_packages``
A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's `zope` package is a namespace package, because subpackages like `zope.interface` and `zope.publisher` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.
A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test` command below for more details.

If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test` command, setuptools will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

If you would like to use a different way of finding tests to run than what setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. Setuptools will pass only one test "name" in the `names` argument: the value supplied for the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default value of this argument is `"setuptools.command.test:ScanningLoader"`. If you want to use the default `unittest` behavior, you can specify `"unittest:TestLoader"` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.
A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be `/`-separated paths, relative to the source root, so to list a resource `foo.png` in package `bar.baz`, you would include the string `bar/baz/foo.png` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`.

``use_2to3``
Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

``convert_2to3_doctests``
List of doctest source files that need to be converted with 2to3.
See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``
-------------------------------

For simple projects, it's usually easy enough to manually add packages to the ``packages`` argument of ``setup()``. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what ``setuptools.find_packages()`` is for.

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a ``src`` or ``lib`` directory as the root of their source tree, and those projects would of course use ``"src"`` or ``"lib"`` as the first argument to ``find_packages()``. (And such projects also need something like "package_dir = {"src"} in their ``setup()`` arguments, but that's just a normal distutils thing.)

Anyway, ``find_packages()`` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an ``__init__.py`` file.
Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, ``find_packages(exclude=["*.tests"])`` will exclude all packages whose last name part is `tests`. Or, ``find_packages(exclude=["*.tests", 
"*.tests.*"])`` will also exclude any subpackages of packages named `tests`, but it still won't exclude a top-level `tests` package or the children thereof. In fact, if you really want no `tests` packages at all, you'll need something like this:

```
find_packages(exclude=["*.tests", 
"*.tests.*", 
"tests.*", 
"tests"])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

**Automatic Script Creation**

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the `-m` option only works for actual `.py` files that aren't installed in a package.

`setuptools` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an `.exe` file so that users don't have to change their `PATHEXT` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called `foo` and `bar`, and a GUI script called `baz`, you might do something like this:

```
setup(
    # other arguments here...
    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
        ],
    },
)
"bar = other_module:some_func",
]
'gui_scripts': [
 'baz = my_package_gui:start_func',
]
)

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of "foo", "bar", and "baz" scripts will be installed that import "main_func" and "some_func" from the specified modules. The functions you specify are called with no arguments, and their return value is passed to "sys.exit()", so you can return an errorlevel or message to print to stderr.

On Windows, a set of "foo.exe", "bar.exe", and "baz.exe" launchers are created, alongside a set of "foo.py", "bar.py", and "baz.pyw" files. The "exe" wrappers find and execute the right version of Python to run the "py" or "pyw" file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to "sys.path" when the script is run. For more information on "extras", see the section below on "Declaring Extras". For more information on "entry points" in general, see the section below on "Dynamic Discovery of Services and Plugins".

"Eggsecutable" Scripts
----------------------

Occasionally, there are situations where it's desirable to make an "egg" file directly executable. You can do this by including an entry point such as the following:

setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ]
    }
)

Any eggs built from the above setup script will include a short executable prelude that imports and calls "main_func()" from "my_package.some_module". The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with "/bin/sh", or by enabling execute permissions on the
For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggexecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

**Declaring Dependencies**

``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `'<', '>', '<=', '>=', '>'=`, `'<>=` or `'!='`, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `'-`.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. `'>1, >2'` becomes `'>1'`, and `'<2, <3'` becomes `'<3'`). `'!='` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. `'<2, >=2'` or `'=2, !=2'`) is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers:

```
docutils >= 0.3

# comment lines and \ continuations are allowed in requirement strings
BazSpan ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \"``
The simplest way to include requirement specifiers is to use the `install_requires` argument to `setup()`. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, `setup.py install`, or `setup.py develop`, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.

2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as long as you either install the project or use `setup.py develop` to do development work on it. (See "Development Mode" below for more details on using `setup.py develop`).

Dependencies that aren’t in PyPI
--------------------------------

If your project depends on packages that aren’t registered in PyPI, you may still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils `sdist` format,
- a single `*.py` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to `setup()`. The URLs must be either:
1. Direct download URLs,
2. The URLs of web pages that contain direct download links, or
3. The repository's URL

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `.py` file, you must include an `#egg=project-version` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single `.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version` in order to identify for what package that checkout should be used. You can append `@REV` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:

```
vcs+proto://host/path@revision#egg=project-version```

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the `requires` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg`.

The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed:

```python
setup(
    ...
    dependency_links = [
        "http://peak.telecommunity.com/snapshots/
    ],
```

---
Declaring "Extras" (optional features with their own dependencies)
------------------------------------------------------------------

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their ``install_requires``.

For example, let's say that Project A offers optional PDF and reST support::

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': ['ReportLab>=1.2', 'RXP'],
        'reST': ['docutils>=0.3'],
    }
)
```

As you can see, the ``extras_require`` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```python
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',
        ]
    }
)
```
Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this:

```python
setup(
    name="Project-B",
    install_requires = ["Project-A[PDF]"],
    ...
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `extras_require` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this:

```python
setup(
    name="Project-A",
    ...
    extras_require = {  
        'PDF': [],  
        'reST': ["docutils>=0.3"],  
    }
)
```

so that Package B doesn't have to remove the `\[PDF]\` from its requirement specifier.

Including Data Files

The distutils have traditionally allowed installation of "data files", which...
are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the `include_package_data` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils' `MANIFEST.in` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems` for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the `package_data` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '*.txt', '*.rst',
        # And include any *.msg files found in the 'hello' package, too:
        'hello': '*.msg',
    }
)
```

The `package_data` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

```plaintext
setup.py
src/
   mypkg/
      __init__.py
      mypkg.txt
   data/
      somefile.dat
```
The setuptools setup file might look like this::

```
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'': 'src'},  # tell distutils packages are under src

    package_data = {
        # If any package contains *.txt files, include them:
        ': ['*.txt'],
        # And include any *.dat files found in the 'data' subdirectory
        # of the 'mypkg' package, also:
        'mypkg': ['data/*.dat'],
    }
)
```

Notice that if you list patterns in ``package_data`` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the `package_data` argument was previously only available in setuptools, it was also added to the Python `distutils` package as of Python 2.4; there is some documentation for the feature available on the python.org website. If using the setuptools-specific `include_package_data` argument, files specified by `package_data` will *not* be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

```
http://docs.python.org/dist/node11.html
```

Sometimes, the `include_package_data` or `package_data` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this::

```
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'),  # include all packages under src
```
package_dir = {'':'src'},  # tell distutils packages are under src

include_package_data = True,  # include everything in source control

# ...but exclude README.txt from all packages
exclude_package_data = {":":["README.txt"]},

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `""` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

`include_package_data``
Accept all data files and directories matched by `MANIFEST.in`

`package_data``
Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.

`exclude_package_data``
Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run `setup.py clean --all` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run `setup.py clean --all`.

Accessing Data Files at Runtime
---------------------------------

Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API` of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to
use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

.. Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files
----------------------

The `distutils` normally install general "data files" to a platform-specific location (e.g. `/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`, by specifying a `Requirement` instead of a package name::

```python
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the `shutil` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction
-----------------------------

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C
extensions expect to be able to access, you may need to list those files in
the `eager_resources` argument to `setup()`, so that the files will be
extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other*
than distutils-built C extensions, and those shared libraries use file
extensions other than `.dll`, `.so`, or `.dylib`, which are the
extensions that setuptools 0.6a8 and higher automatically detects as shared
libraries and adds to the `native_libs.txt` file for you. Any shared
libraries whose names do not end with one of those extensions should be listed
as `eager_resources`, because they need to be present in the filesystem when
he C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically
extract *all* C extensions and `eager_resources` at the same time, whenever
*any* C extension or eager resource is requested via the `resource_filename()`
API. (C extensions are imported using `resource_filename()` internally.)
This ensures that C extensions will see all of the "real" files that they
expect to see.

Note also that you can list directory resource names in `eager_resources` as
well, in which case the directory's contents (including subdirectories) will be
extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you
don't! It's really intended to support projects with lots of non-Python
dependencies and as a last resort for crufty projects that can't otherwise
handle being compressed. If your package is pure Python, Python plus data
files, or Python plus C, you really don't need this. You've got to be using
either C or an external program that needs "real" files in your project before
there's any possibility of `eager_resources` being relevant to your project.

Extensible Applications and Frameworks
======================================

.. _Entry Points:

Dynamic Discovery of Services and Plugins
------------------------------------------

`setuptools` supports creating libraries that "plug in" to extensible
applications and frameworks, by letting you register "entry points" in your
project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins
that provide translation for various file types to the blog's output format.
The framework might define an "entry point group" called "blogtool.parsers", and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an `.rst` file parser entry point in the `blogtool.parsers` entry point group, for our hypothetical blogging tool:

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```python
setup(
    # ...
    entry_points = "[blogtool.parsers]
    .rst = some.nested.module:SomeClass.some_classmethod [reST]
    
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading
of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata
-----------------------------

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on 'Creating distutils Extensions' for more details, especially the subsection on 'Adding new EGG-INFO Files'.

"Development Mode"
===================

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special `egg-link` file in the deployment directory, that links to your project's source code. And, if your
deployment directory is Python's ``site-packages`` directory, it will also update the ``easy-install.pth`` file to include your project's source code, thereby making it available on ``sys.path`` for all programs using that Python installation.

If you have enabled the ``use_2to3`` flag, then of course the ``.egg-link`` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the ``setup.py develop`` will build Python 3 code under the ``build`` directory, and link there. This means that after doing code changes you will have to run ``setup.py build`` before these changes are picked up by your Python 3 installation.

In addition, the ``develop`` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your ``install_requires`` packages are available on ``sys.path``.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using ``setup.py develop --uninstall``, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the ``develop`` command; see the section on the `develop` command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this:

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a setuptools-based project
=======================================

Using setuptools... Without bundling it!
=======================================

Your users might not have setuptools installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`, and put it in the same directory as your ``setup.py`` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports
anything from setuptools:

.. code-block:: python

    import ez_setup
    ez_setup.use_setuptools()

That's it. The ``ez_setup`` module will automatically download a matching
version of ``setuptools`` from PyPI, if it isn't present on the target system.
Whenever you install an updated version of setuptools, you should also update
your projects' ``ez_setup.py`` files, so that a matching version gets installed
on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use
``setup.py sdist upload`` or ``setup.py bdist_egg upload`` to upload your
source or egg distributions respectively. Your project's current version must
be registered with PyPI first, of course; you can use ``setup.py register`` to
do that. Or you can do it all in one step, e.g. ``setup.py register sdist
bdist_egg upload`` will register the package, build source and egg
distributions, and then upload them both to PyPI, where they'll be easily
found by other projects that depend on them.

(By the way, if you need to distribute a specific version of setuptools`,
you can specify the exact version and base download URL as parameters to the
``use_setuptools()`` function. See the function's docstring for details.)

What Your Users Should Know
----------------------------

In general, a setuptools-based project looks just like any distutils-based
project -- as long as your users have an internet connection and are installing
to ``site-packages``, that is. But for some users, these conditions don't
apply, and they may become frustrated if this is their first encounter with
a setuptools-based project. To keep these users happy, you should review the
following topics in your project's installation instructions, if they are
relevant to your project and your target audience isn't already familiar with
setuptools and "easy_install".

Network Access

If your project is using "ez_setup", you should inform users of the
need to either have network access, or to preinstall the correct version of
setuptools using the "EasyInstall installation instructions". Those
instructions also have tips for dealing with firewalls as well as how to
manually download and install setuptools.

Custom Installation Locations

You should inform your users that if they are installing your project to
somewhere other than the main `site-packages` directory, they should first install setuptools using the instructions for `Custom Installation Locations` before installing your project.

Your Project's Dependencies

If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the `-f` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use `-f` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers

Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't `easy_install`! Setuptools currently supports `bdist_rpm`, `bdist_wininst`, and `bdist_dumb` formats for system packaging. If a user has a locally-installed `bdist` packaging tool that internally uses the distutils
"install" command, it should be able to work with "setuptools". Some examples of "bdist" formats that this should work with include the "bdist_nsi" and "bdist_msi" formats for Windows.

However, packaging tools that build binary distributions by running "setup.py install" on the command line or as a subprocess will require modification to work with setuptools. They should use the "--single-version-externally-managed" option to the "install" command, combined with the standard "--root" or "--record" options.

See the `install command` documentation below for more details. The "bdist_deb" command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the "zip_safe" flag
-----------------------------

For maximum performance, Python packages are best installed as zip files. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, "setuptools" can install your project as a zipfile or a directory, and its default choice is determined by the project's "zip_safe" flag.

You can pass a True or False value for the "zip_safe" argument to the "setup()" function, or you can omit it. If you omit it, the "bdist_egg" command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the "bdist_egg" authors aren't yet comfortable asserting that the project will work. If the project contains no C or data files, and does no "__file__" or "__path__" introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses "pkg_resources" for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)

However, if "bdist_egg" can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it
*will* work (or if you want to try it for yourself), then you should set ``zip_safe`` to ``True`` in your ``setup()`` call. If it turns out that it doesn't work, you can always change it to ``False``, which will force ``setuptools`` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run ``setup.py easy_install --zip-ok .`` or ``setup.py easy_install --always-unzip .`` in your project directory, to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the ``pkg_resources`` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of "True" or "False" for the "zip_safe" flag, so that it will not be necessary for "bdist_egg" or "EasyInstall" to try to guess whether your project can work as a zipfile.

Namespace Packages
------------------

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its ``__init__.py``, and that it is merely a container for modules and subpackages.

The "pkg_resources`` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The "namespace_packages" argument to "setup()" lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this::

```python
setup(
    # ...
    namespace_packages = ['zope']
)
```

because it contains a "zope.interface" package that lives in the "zope" namespace package. Similarly, a project for a standalone "zope.publisher" would also declare the "zope" namespace package. When these projects are
installed and used, Python will see them both as part of a "virtual" `zope` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's `zope.app` package is a namespace package, and in the future PEAK's `peak.util` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' `__init__.py` files (and the `__init__.py` of any parent packages), in a normal Python package layout. These `__init__.py` files *must* contain the line:

```
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's `__init__.py`. Even though it may appear to work during development, or when projects are installed as `.egg` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the `__init__.py` files will not be installed, let alone executed.

You must include the `declare_namespace()` line in the `__init__.py` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of `__init__.py` is loaded first. If the first loaded `__init__.py` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

**TRANSITIONAL NOTE**

Setuptools automatically calls `declare_namespace()` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the `pkg_resources` runtime, and also the need for `pkg_resources` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing `declare_namespace()` calls in your `__init__.py` files, and you should correct these as soon as possible before the compatibility support is removed. Namespace packages without declaration lines will not work.
correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases
------------------------------------------------

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, ``setuptools`` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (``--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (``--tag-svn-revision, -r``)

* An 8-character representation of the build date (``--tag-date, -d``), as a postrelease tag

You can add these tags by adding ``egg_info`` and the desired options to the command line ahead of the ``sdist`` or ``bdist`` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info` command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version` for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like::

```bash
```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias` command, which would let each package define an alias like `daily` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run `setup.py daily` in each project directory. (And, you could also define sitewide or per-user default versions of the `daily` alias, so that projects that didn't define their own would use the appropriate defaults.)

Generating Source Distributions
-------------------------------
``setuptools`` enhances the distutils' default algorithm for source file selection with pluggable endpoints for looking up files to include. If you are using a revision control system, and your source distributions only need to include files that you're tracking in revision control, use a corresponding plugin instead of writing a ``MANIFEST.in`` file. See the section below on `Adding Support for Revision Control Systems` for information on plugins.

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a ``MANIFEST.in`` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with ``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's ``.egg-info`` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its `sdist` command omits nearly all of the options that the distutils' more complex `sdist` process requires. For all practical purposes, you'll probably use only the `--formats` option, if you use any option at all.
If you use the `register` command (``setup.py register``) to register your package with PyPI, that's most of the battle right there. (See the `docs for the register command`_ for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload`_ command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

`url` and `download_url`
These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links.

`long_description`
EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an `#egg=project` or `#egg=project-version` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your `url` or `download_url` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either `#egg=project` or `#egg=project-version` added to the URL. You should replace `project` and `version` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)
Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the `#egg=` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., `#egg=projectname-dev`), so that users can do something like this:

```
    easy_install --editable projectname==dev
```

in order to check out the in-development version of `projectname`.

Managing "Continuous Releases" Using Subversion
-------------------------------------------------------

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's `setup.cfg` file:

```ini
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell `setuptools` to generate package version numbers like `1.0a1.dev-r1263`, which will be considered to be an *older* release than `1.0a1`. Thus, when you actually release `1.0a1`, the entire egg infrastructure (including `setuptools`, `pkg_resources` and EasyInstall) will know that `1.0a1` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in `setup.py` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the `tag_build=.dev`, and always use the *last* release as a version number, so that your post-1.0 builds are labelled `1.0-r1263`, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)
Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an ``#egg=projectname-dev`` suffix. This allows users to request EasyInstall to download ``projectname==dev`` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your ``install_requires`` (or other requirements) to include ``==dev``; e.g.:

.. code-block:: python

    install_requires = ['OtherProject>=0.2a1.dev-r143,==dev']

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an ``#egg=OtherProject-dev`` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run ``setup.py develop`` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ``develop`` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run ``setup.py develop`` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from ``setup.cfg``, so that you don't end up registering versions like ``foobar-0.7a1.dev-r34832``. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to ``setup.cfg`` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

    python setup.py egg_info -RD "" sdist bdist_egg register upload

The first part of this command (``egg_info -RD ``) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use
the plain version from your `setup.py`, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

    python setup.py alias -u release egg_info -RDb ""

You can then use it like this::

    python setup.py release sdist bdist_egg register upload

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the `egg_info` and `alias` commands for more ideas.

Distributing Extensions compiled with Pyrex
------------------------------------------

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using `setuptools.Extension`, *not* `distutils.Extension`. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list `.pyx` files as the source of your `Extension` objects in the setup script. `setuptools` will detect at build time whether Pyrex is installed or not. If it is, then `setuptools` will use it. If not, then `setuptools` will silently change the `Extension` objects to refer to the `.c` counterparts of the `.pyx` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original `.pyx` files. This means that you will probably want to include current `.c` files in your revision control system, rebuilding them whenever you check changes in for the `.pyx` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

-----------------  
Command Reference
-----------------  

.. _alias:
``alias`` - Define shortcuts for commonly used commands

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different ``egg_info`` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using ```setup.py alias aliasname expansion```, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various ``egg_info`` tagging options:

```
setup.py alias --global-config daily egg_info --tag-svn-revision \
    --tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.:

```
setup.py daily bdist_egg # generate a daily-build .egg file
setup.py daily sdist    # generate a daily-build source distro
setup.py daily sdist bdist_egg # generate both
```

The above commands are interpreted as if the word ```daily``` were replaced with ```egg_info --tag-svn-revision --tag-build=development```.

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias:

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the ```bdist_egg``` command so that it always runs the ```rotate``` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on ```bdist_egg``` because the alias is only expanded once when used.

You can remove a defined alias with the ```--remove``` (or ```-r```) option, e.g.:

```
setup.py alias --global-config --remove daily
```
would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options` (listed under the `saveopts` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the `alias` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

``bdist_egg`` - Create a Python Egg for the project
===============================================

This command generates a Python Egg (`.egg` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (`egg-info`) directory. If you have added any extra metadata files to the `egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may be occasionally useful:

``--dist-dir=DIR, -d DIR``
Set the directory where the `.egg` file will be placed. If you don't supply this, then the `--dist-dir` setting of the `bdist` command will be used, which is usually a directory named `dist` in the project directory.

``--plat-name=PLATFORM, -p PLATFORM``
Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard
platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

``--exclude-source-files``

Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

``--keep-temp, -k``

Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

``--bdist-dir=DIR, -b DIR``

Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

``--skip-build``

Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:

``develop`` - Deploy the project source in "Development Mode"

=================================================================

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.
The "develop" command works by creating an "`.egg-link`" file (named for the project) in the given staging area. If the staging area is Python's "`site-packages`" directory, it also updates an "`easy-install.pth`" file so that the project is on "`sys.path`" by default for all programs run using that Python installation.

The "develop" command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on "`sys.path`" before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the "develop" command invokes the "`build_ext -i`" command to ensure any C extensions in the project have been built and are up-to-date, and the "`egg_info`" command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the "develop" command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning "develop", but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the "develop" or "test" commands to keep the distribution updated.

Here are some of the options that the "develop" command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use "`--exclude-scripts`" (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the "develop" command, if you need finer control over the installation options for dependencies.

``--uninstall, -u``

Un-deploy the current project. You may use the "`--install-dir`" or "`-d`" option to designate the staging area. The created "`.egg-link`" file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from "`easy-install.pth`" if the staging area is Python's "`site-packages`" directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the "`--exclude-scripts`" (aka "`-x`") option when you run "develop" to deploy the project.

``--multi-version, -m``

"Multi-version" mode. Specifying this option prevents "develop" from
adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or EasyInstall. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `-d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

`--install-dir=DIR, -d DIR`
Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the `site-packages` directory, but if you are using distutils configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

`--script-dir=DIR, -s DIR`
Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an `--install-dir` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

`--exclude-scripts, -x`
Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

`--always-copy, -a`
Copy all needed distributions to the staging area, even if they are already present in another directory on `sys.path`. By default, if a requirement can be met using a distribution that is already available in a directory on `sys.path`, it will not be copied to the staging area.

`--egg-path=DIR`
Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations.
for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the `develop` command also accepts all of the same options accepted by `easy_install`. If you've configured any `easy_install` settings in your `setup.cfg` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `[develop]` section or on the command line.

``easy_install`` - Find and install packages
=================================================

This command runs the `EasyInstall tool <easy_install.html>` for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your `setup.cfg` or other distutils config files.

.. _egg_info:

``egg_info`` - Create egg metadata and set build tags
=======================================================

This command performs two operations: it updates a project's `.egg-info` metadata directory (used by the `bdist_egg`, `develop`, and `test` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while executing other commands. (It also generates the `Sources.txt` manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and required by `pkg_resources`, this command can be extended to write other metadata files as well, by defining entry points in the `egg_info.writers`
group. See the section on `Adding new EGG-INFO Files`_ below for more details. Note that using additional metadata writers may require you to include a `setup_requires` argument to `setup()` in order to ensure that the desired writers are available on `sys.path`.

Release Tagging Options
-----------------------

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:

```
--tag-build=NAME, -b NAME
```

Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off --tag-build and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `--b ""` or `--tag-build=""` as an argument to the `egg_info` command.

```
--tag-svn-revision, -r
```

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form ",rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a ",rNNNN" string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with ",r" and a number, then ",r0" is used.

```
--no-svn-revision, -R
```

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

_Open Source Used In SDWan 20.7.1 13567_
``--tag-date, -d``
Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.

``--no-date, -D``
Don't include a date stamp in the version number. This option is included so you can override a default setting in ``setup.cfg``.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other ``egg_info`` Options
--------------------------
``--egg-base=SOURCEDIR, -e SOURCEDIR``
Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a `src` or `lib` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `package_dir` argument to the `setup()` function, if any. If there is no `package_dir` set, this option defaults to the current directory.

``egg_info`` Examples
---------------------
Creating a dated "nightly build" snapshot egg:
```
python setup.py egg_info --tag-date --tag-build=DEV bdist_egg
```
Creating and uploading a release with no version tags, even if some default tags are specified in ``setup.cfg``:
```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```
(Note that `egg_info` must always appear on the command line *before* any
commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run ``easy_install`` or old-style installation

The setuptools ``install`` command is basically a shortcut to run the
``easy_install`` command on the current project. However, for convenience
in creating "system packages" of setuptools-based projects, you can also
use this option:

``--single-version-externally-managed``
This boolean option tells the ``install`` command to perform an "old style"
installation, with the addition of an ``.egg-info`` directory so that the
installed project will still have its metadata available and operate
normally. If you use this option, you *must* also specify the ``--root``
or ``--record`` options (or both), because otherwise you will have no way
to identify and remove the installed files.

This option is automatically in effect when ``install`` is invoked by another
distutils command, so that commands like ``bdist_wininst`` and ``bdist_rpm``
will create system packages of eggs. It is also automatically in effect if
you specify the ``--root`` option.

``install_egg_info`` - Install an ``.egg-info`` directory in ``site-packages``

Setuptools runs this command as part of ``install`` operations that use the
``--single-version-externally-managed`` options. You should not invoke it
directly; it is documented here for completeness and so that distutils
extensions such as system package builders can make use of it. This command
has only one option:

``--install-dir=DIR, -d DIR``
The parent directory where the ``.egg-info`` directory will be placed.
Defaults to the same as the ``--install-dir`` option specified for the
``install_lib`` command, which is usually the system ``site-packages``
directory.

This command assumes that the ``egg_info`` command has been given valid options
via the command line or ``setup.cfg``, as it will invoke the ``egg_info``
command and use its options to locate the project's source ``.egg-info``
directory.
``rotate`` - Delete outdated distribution files

As you develop new versions of your project, your distribution (``dist``) directory will gradually fill up with older source and/or binary distribution files. The ``rotate`` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``
Comma-separated list of glob patterns to match. This option is *required*. The project name and ``-*`` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like ``.zip`` or ``.egg`` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``
Number of matching distributions to keep. For each group of files identified by a pattern specified with the ``--match`` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

``--dist-dir=DIR, -d DIR``
Directory where the distributions are. This defaults to the value of the ``bdist`` command's ``--dist-dir`` option, which will usually be the project's ``dist`` subdirectory.

**Example 1**: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::

    setup.py rotate --match=.tar.gz --keep=3

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

    setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1

``saveopts`` - Save used options to a configuration file

Finding and editing ``distutils`` configuration files can be a pain, especially since you also have to translate the configuration options from command-line
form to the proper configuration file format. You can avoid these hassles by using the ``saveopts`` command. Just add it to the command line to save the options you used. For example, this command builds the project using the ``mingw32`` C compiler, then saves the --compiler setting as the default for future builds (even those run implicitly by the ``install`` command):

```
setup.py build --compiler=mingw32 saveopts
```

The ``saveopts`` command saves all options for every command specified on the command line to the project's local ``setup.cfg`` file, unless you use one of the `configuration file options`_ to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration:

```
setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the ``saveopts`` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example:

```
setup.py saveopts -g build --compiler=mingw32
```

Note, however, that all of the commands specified are always run, regardless of where ``saveopts`` is placed on the command line.

### Configuration File Options

```
--global-config, -g
```

Save settings to the global ``distutils.cfg`` file inside the ``distutils`` package directory. You must have write access to that directory to use this option. You also can't combine this option with ``-u`` or ``-f``.

```
--user-config, -u
```

Save settings to the current user's ``~/.pydistutils.cfg`` (POSIX) or ``$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option with ``-g`` or ``-f``.

```
--filename=FILENAME, -f FILENAME
```

Save settings to the specified configuration file to use. You can't combine this option with ``-g`` or ``-u``. Note that if you specify a non-standard filename, the ``distutils`` and ``setuptools`` will not use the file's contents. This option is mainly included for use in
These options are used by other `setuptools` commands that modify configuration files, such as the `alias` and `setopt` commands.

``setopt`` - Set a distutils or setuptools option in a config file

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to `mingw32` (using long option names):

```
setup.py setopt --command=build --option=compiler --set-value=mingw32
```

**Example 2**. Remove any setting for the distutils default package installation directory (short option names):

```
setup.py setopt -c install -o install_lib -r
```

Options for the `setopt` command:

```
--command=COMMAND, -c COMMAND
Command to set the option for. This option is required.

--option=OPTION, -o OPTION
The name of the option to set. This option is required.

--set-value=VALUE, -s VALUE
The value to set the option to. Not needed if `--remove` is set.

--remove, -r
Remove (unset) the option, instead of setting it.
```

In addition to the above options, you may use any of the `configuration file options` (listed under the `saveopts` command, above) to determine which distutils configuration file the option will be added to (or removed from).
``test`` - Build package and run a unittest suite
==============================================

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the `develop` command. The `test` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on `sys.path`, after first running `build_ext -i` and `egg_info` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a `unittest` test suite by either a function, a `TestSuite` class or method, or a module or package containing `TestSuite` classes. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the result (which must be a `unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `test_loader`, the rules for processing the chosen `test_suite` may differ; see the `test_loader` documentation for more details.)

Note that many test systems including `doctest` support wrapping their non-`unittest` tests in `TestSuite` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the `unittest` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the `--quiet` or `--quiet` option, either as a global option to the setup script (e.g. `setup.py -q test`) or as an option for the `test` command itself (e.g. `setup.py test -q`). There is one other option available:

``--test-suite=NAME, -s NAME``
Specify the test suite (or module, class, or method) to be run (e.g. `some_module.test_suite`). The default for this option can be set by giving a `test_suite` argument to the `setup()` function, e.g.:

```python
setup(
    # ...
    test_suite = "my_package.tests.test_all"
)
```

If you did not set a `test_suite` in your `setup()` call, and do not provide a `--test-suite` option, an error will occur.
``upload`` - Upload source and/or egg distributions to PyPI
===========================================================================

The ``upload`` command is implemented and `documented`_ in distutils.

Setuptools augments the ``upload`` command with support for `keyring`_, allowing the password to be stored in a secure location and not in plaintext in the .pypirc file. To use keyring, first install keyring and set the password for the relevant repository, e.g.::

    python -m keyring set <repository> <username>
    Password for '<username>' in '<repository>': ********

Then, in .pypirc, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the keyring.

New in 20.1: Added keyring support.

``upload_docs`` - Upload package documentation to PyPI
===========================================================================

PyPI now supports uploading project documentation to the dedicated URL https://pythonhosted.org/<project>/.

The ``upload_docs`` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils ``register`` command -- just like the ``upload`` command.

Assuming there is an ``Example`` project with documentation in the subdirectory ``docs``, e.g.::

    Example/
    |-- example.py
    |-- setup.cfg
    |-- setup.py
You can simply pass the documentation directory path to the `upload_docs` command::

    python setup.py upload_docs --upload-dir=docs/build/html

If no --upload-dir is given, `upload_docs` will attempt to run the `build_sphinx` command to generate uploadable documentation. For the command to become available, `Sphinx <http://sphinx.pocoo.org/>` must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful defaults in the `setup.cfg` of your Python project, e.g.:

.. code-block:: ini

    [upload_docs]
    upload-dir = docs/build/html

The `upload_docs` command has the following options:

``--upload-dir``
  The directory to be uploaded to the repository.

``--show-response``
  Display the full response text from server; this is useful for debugging PyPI problems.

``--repository=URL, -r URL``
  The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).

--------------------------------
Extending and Reusing Setuptools
--------------------------------

Creating `distutils` Extensions

=================================
It can be hard to add new commands or setup arguments to the distutils. But the ``setuptools`` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their ``setup_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new commands and ``setup()`` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on 'Dynamic Discovery of Services and Plugins' above for some more background on entry points.)

Adding Commands
---------------

You can add new ``setup`` commands by defining entry points in the ``distutils.commands`` group. For example, if you wanted to add a ``foo`` command, you might add something like this to your distutils extension project's setup script:

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the ``foo`` class in ``mypackage.some_module`` is a ``setuptools.Command`` subclass.)

Once a project containing such entry points has been activated on ``sys.path``, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any ``setuptools``-based setup scripts. It is not necessary to use the ``--command-packages`` option or to monkeypatch the ``distutils.command`` package to install your commands; ``setuptools`` automatically adds a wrapper to the distutils to search for entry points in the active distributions on ``sys.path``. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

Adding ``setup()`` Arguments
----------------------------

Sometimes, your commands may need additional arguments to the ``setup()`` call. You can enable this by defining entry points in the
``distutils.setup_keywords`` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your distutils extension project's setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it's supplied. The `Distribution` object will have the initial value of the attribute set to `None`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here's an example validation function::

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError(  
            "%r must be a boolean value (got %r)" % (attr,value)
        )
```

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.
Adding new EGG-INFO Files

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument `foo_bar`, which is a list of lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any project that uses the argument::

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    ),
)
```

This simple example makes use of two utility functions defined by setuptools for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the writer utility looks like::

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '\n'.join(value)+'\n'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, `egg_info.writers` entry points must be a function taking three arguments: a `egg_info` command instance, the basename of the file to write (e.g. `foo_bar.txt`), and the actual full filename that should be written to.

In general, writer functions should honor the command object's `dry_run`
setting when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the `cmd` object's `write_file()`, `delete_file()`, and `write_or_delete_file()` methods exclusively for your file operations. See those methods' docstrings for more details.

Adding Support for Revision Control Systems
---------------------------------------------

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked by another revision control system, you can do so by adding an entry point to the `setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```python
def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`

```

And you would register it in a setup script using something like this:

```python
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `setup_requires`. When you create a source distribution with the `sdist` command, setuptools automatically records what files were found in the `SOURCES.txt` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package
by checking out with that system, they will need the same plugin(s) that the
original author is using.

A few important points for writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the
  passed-in directory name. Absolute paths are NOT allowed, nor are relative
  paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name,
  meaning the current directory. You MUST NOT convert this to a dot; just
  yield relative paths. So, yielding a subdirectory named ``some/dir`` under
  the current directory should NOT be rendered as ``./some/dir`` or
  ``/somewhere/some/dir``, but *always* as simply ``some/dir``

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully
  with the absence of needed programs (i.e., ones belonging to the revision
  control system itself. It *may*, however, use ``distutils.log.warn()`` to
  inform the user of the missing program(s).

Subclassing ``Command``
-----------------------

Sorry, this section isn't written yet, and neither is a lot of what's below
this point.

XXX

Reusing ``setuptools`` Code
==========================

``ez_setup``
-----------

XXX

``setuptools.archive_util``
-------------------------

XXX

``setuptools.sandbox``
----------------------

XXX
Mailing List and Bug Tracker
===================================

Please use the `distutils-sig mailing list`_ for questions and discussion about setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

Found in path(s):
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20.7.0-orig-1-tar-gz/setuptools-20.7.0/docs/setuptools.txt
No license file was found, but licenses were detected in source scan.

```# Permission is hereby granted, free of charge, to any person obtaining
# a copy of this software and associated documentation files (the
# "Software"), to deal in the Software without restriction, including
# without limitation the rights to use, copy, modify, merge, publish,
# distribute, sublicense, and/or sell copies of the Software, and to
# The above copyright notice and this permission notice shall be
# included in all copies or substantial portions of the Software.
```

Found in path(s):
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20.7.0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/pyparsing.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: setuptools
Version: 20.7.0
Summary: Easily download, build, install, upgrade, and uninstall Python packages
Home-page: https://github.com/pypa/setuptools
Author: Python Packaging Authority
Author-email: distutils-sig@python.org
License: UNKNOWN
Description: ===============================

Installing and Using Setuptools
Installation Instructions

The recommended way to bootstrap setuptools on any system is to download `ez_setup.py` and run it using the target Python environment. Different operating systems have different recommended techniques to accomplish this basic routine, so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools on Python 2.4 or Python 2.5, use the `bootstrap script for Setuptools 1.x <https://raw.githubusercontent.com/pypa/setuptools/bootstrap-py24/ez_setup.py>`_.

The link provided to ez_setup.py is a bookmark to bootstrap script for the latest known stable release.

--ez_setup.py: https://bootstrap.pypa.io/ez_setup.py

Windows (Powershell 3 or later)

For best results, uninstall previous versions FIRST (see `Uninstalling`).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple Powershell command. Start up Powershell and paste this command::

    > (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -

You must start the Powershell with Administrative privileges or you may choose to install a user-local installation::

    > (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python --user

If you have Python 3.3 or later, you can use the `py` command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed::

    > (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -

The recommended way to install setuptools on Windows is to download
`ez_setup.py` and run it. The script will download the appropriate distribution file and install it for you.

Once installation is complete, you will find an `easy_install` program in your Python `Scripts` subdirectory. For simple invocation and best results, add this directory to your `PATH` environment variable, if it is not already present. If you did a user-local install, the `Scripts` subdirectory is `$env:APPDATA\Python\Scripts`.

Windows (simplified)

For Windows without PowerShell 3 or for installation without a command-line, download `ez_setup.py` using your preferred web browser or other technique and "run" that file.

Unix (wget)

Most Linux distributions come with `wget`.

Download `ez_setup.py` and run it using the target Python version. The script will download the appropriate version and install it for you:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```

Note that you will may need to invoke the command with superuser privileges to install to the system Python:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | sudo python
```

Alternatively, Setuptools may be installed to a user-local path:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python - --user
```

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.c.ssl.fastly.net` does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter similar problems using `wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see `Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>`). If you happen to encounter them, install Setuptools as follows:

...
> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure

Unix including Mac OS X (curl)
==============================

If your system has curl installed, follow the `wget` instructions but replace `wget` with `curl` and `--O` with `--o`. For example:

> curl https://bootstrap.pypa.io/ez_setup.py --o - | python

Advanced Installation
=====================

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source tarball from `Setuptools on PyPI <https://pypi.python.org/pypi/setuptools>`_ and run setup.py with any supported distutils and Setuptools options. For example:

```
setuptools-x.x$ python setup.py install --prefix=/opt/setuptools
```

Use `--help` to get a full options list, but we recommend consulting the `EasyInstall manual`_ for detailed instructions, especially the section on custom installation locations`_.

.. _EasyInstall manual: https://pythonhosted.org/setuptools/EasyInstall
.. _the section on custom installation locations: https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations

Downloads
==========

All setuptools downloads can be found at `the project's home page in the Python Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: https://pypi.python.org/pypi/setuptools

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Bitbucket repo`_ and in-development versions of the `0.6 branch`_ are available as well.

.. _Bitbucket repo: https://bitbucket.org/pypa/setuptools/ get/default.tar.gz#egg=setuptools-dev
.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06
Uninstalling
================

On Windows, if Setuptools was installed using an `.exe` or `.msi` installer, simply use the uninstall feature of “Add/Remove Programs” in the Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python version, delete all `setuptools*` and `distribute*` files and directories from your system's `site-packages` directory (and any other `sys.path` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute, nothing further needs to be done. If you want to completely remove Setuptools, you may also want to remove the 'easy_install' and 'easy_install-x.x' scripts and associated executables installed to the Python scripts directory.

-----------------
Using Setuptools and EasyInstall
-----------------

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *tested* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: https://github.com/pypa/setuptools/issues
.. _The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html
.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

--------

Credits
--------
* The original design for the `.egg` format and the `pkg_resources` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of `pkg_resources`, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of `easy_install`, and supplied the doctests for the command-line `.exe` wrappers on Windows.

* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

* Tarek Ziad is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation, and addressed many defects.

* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.. _files:

---------------

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---------------

Everyone interacting in the setuptools project's codebases, issue trackers, chat rooms, and mailing lists is expected to follow the `PyPA Code of Conduct`


Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/ Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
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Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: System :: Archiving :: Packaging
Classifier: Topic :: System :: Systems Administration
Classifier: Topic :: Utilities

Found in path(s):
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/PKG-INF
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/setuptools.egg-info/PKG-INF
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* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/six.py
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* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/setup.py

1.1314 six 1.11.0

1.1314.1 Available under license:

The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

Marc Abramowitz
Alexander Artemenko
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James Mills
Berker Peksag
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Mirko Rossini
Peter Ruibal
Miroslav Shubernetskiy
Anthony Sottile
Lucas Wiman
Jordan Moldow

If you think you belong on this list, please let me know! --Benjamin

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1.1315 python 3.8.10
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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src/arc4random_unix.h
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src/getentropy_bsd.c
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man/strmode.3
man/strnstr.3
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man/vis.3
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$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.
Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src

crontab -u news -r /usr/lib/news/crontab.src

crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL
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$Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $

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 *
 * @(#)bitstring.h 5.2 (Berkeley) 4/4/90
 */

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" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
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  */opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
  */opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
  */opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
  */opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
  */opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
  */opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
  */opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
  */opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
  */opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
  */opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
  */opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c

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  jar/org/springframework/data/rest/core/mapping/ResourceType.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
  jar/org/springframework/data/rest/core/mapping/ResourceMappings.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
  jar/org/springframework/data/rest/core/mapping/ProjectionDefinitions.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
  jar/org/springframework/data/rest/core/mapping/AnnotationBasedResourceDescription.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
  jar/org/springframework/data/rest/core/mapping/CrudMethodsSupportedHttpMethods.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
  jar/org/springframework/data/rest/core/mapping/MappingMetadata.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
  jar/org/springframework/data/rest/core/mapping/ParameterMetadata.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
  jar/org/springframework/data/rest/core/mapping/SupportedHttpMethods.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/mapping/ResourceDescription.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/mapping/TypedResourceDescription.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/config/MetadataConfiguration.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/config/Projection.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/config/ProjectionDefinitionConfiguration.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/support/ResourceMappingUtils.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/annotation/Description.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/annotation/RestResource.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/annotation/ValidationErrors.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/annotation/HandleAfterLinkDelete.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/annotation/RepositoryEventHandler.java

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* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/support/ResourceMappingUtils.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/annotation/Description.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/annotation/RestResource.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/ValidationErrors.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/annotation/HandleAfterLinkDelete.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/annotation/RepositoryEventHandler.java
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  jar/org/springframework/data/rest/core/mapping/ConfigurationApplyingSupportedHttpMethodsAdapter.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
  jar/org/springframework/data/rest/core/mapping/ExposureConfiguration.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
  jar/org/springframework/data/rest/core/mapping/ConfigurableHttpMethods.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
  jar/org/springframework/data/rest/core/mapping/HttpMethods.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
  jar/org/springframework/data/rest/core/mapping/StringToLdapNameConverter.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
  jar/org/springframework/data/rest/core/mapping/ComposableFilter.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
  jar/org/springframework/data/rest/core/mapping/ExposureConfigurer.java

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jar/org/springframework/data/rest/core/support/SelfLinkProvider.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/support/UnwrappingRepositoryInvokerFactory.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/mapping/PersistentEntitiesResourceMappings.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/support/EntityLookup.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/config/EntityLookupConfiguration.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/support/DefaultSelfLinkProvider.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/config/EnumTranslationConfiguration.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/config/JsonSchemaFormat.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/config/EntityLookupSupport.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/mapping/PropertyAwareResourceMapping.java
* /opt/cola/permits/1108418595_1606143949.24/0/spring-data-rest-core-3-1-19-release-sources-
jar/org/springframework/data/rest/core/mapping/RepositoryDetectionStrategy.java

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1.1331 mitchellh-copystructure 1.0.0

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1.1334 ureadahead 0.100.0 19.1

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1.1341 commons-cli 1.2

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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/status.h
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/src/compiler/ruby_plugin.cc
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/support/sync_posix.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/support/server_builder_option.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/support/status.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/support/codegen/byte_buffer.h
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/** TLS server authorization check arguments, wraps
* grpc_tls_server_authorization_check_arg. It is used for experimental
* purposes for now and it is subject to change.
*
* The server authorization check arg contains all the info necessary to
* schedule/cancel a server authorization check request. The callback function
* must be called after finishing the schedule operation. See the description
* of the grpc_tls_server_authorization_check_arg struct in grpc_security.h for
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpcpp/impl/codegen/sync_stream.h
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpcpp/impl/codegen/client_callback.h
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/stubs/template_util_unittest.cc

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/** Signal that the call is cacheable. GRPC is free to use GET verb */

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/// If set, grpc is free to use the HTTP GET verb for sending the request,

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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/support/sync_abseil.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/support/sync_abseil.h
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1.34.0/third_party/protobuf/src/google/protobuf/map_field_inl.h
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/descriptor.proto
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/unittest_empty.proto
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Found in path(s):
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.h
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 */

Found in path(s):
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0/grpc_root/include/grpcpp/impl/codegen/sync.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0/grpc_root/include/grpcpp/opencensus.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0/grpc_root/include/grpcpp/security/altvs_context.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0/grpc_root/include/grpcpp/support/message_allocator.h
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*/

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Metadata-Version: 1.1
Name: grpcio-tools
Version: 1.34.0
Summary: Protobuf code generator for gRPC
Home-page: https://grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Description: gRPC Python Tools

Package for gRPC Python tools.

Supported Python Versions
-------------------------
Python >= 3.5

Deprecated Python Versions
--------------------------
Python == 2.7. Python 2.7 support will be removed on January 1, 2020.

Installation
----------

The gRPC Python tools package is available for Linux, Mac OS X, and Windows running Python 2.7.

Installing From PyPI
---------------------

If you are installing locally...

::

$ pip install grpcio-tools

Else system wide (on Ubuntu)...

::
$ sudo pip install grpcio-tools

If you're on Windows make sure that you installed the `pip.exe` component when you installed Python (if not go back and install it!) then invoke:

::

$ pip.exe install grpcio-tools

Windows users may need to invoke `pip.exe` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of `pip` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

You might also need to install Cython to handle installation via the source distribution if gRPC Python's system coverage with wheels does not happen to include your system.

Installing From Source
~~~~~~~~~~~~~~~~~~~~~~

Building from source requires that you have the Python headers (usually a package named `python-dev`) and Cython installed. It further requires a GCC-like compiler to go smoothly; you can probably get it to work without GCC-like stuff, but you may end up having a bad time.

::

$ export REPO_ROOT=grpc  # REPO_ROOT can be any directory of your choice
$ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT
$ cd $REPO_ROOT
$ git submodule update --init

$ cd tools/distrib/python/grpcio_tools
$ python ../make_grpcio_tools.py

# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .

You cannot currently install Python from source on Windows. Things might work out for you in MSYS2 (follow the Linux instructions), but it isn't officially supported at the moment.

Troubleshooting
~~~~~~~~~~~~~~~
Help, I ...

* * * see a **code:`pkg_resources.VersionConflict` **when I try to install grpc**

This is likely because :code:`pip` doesn't own the offending dependency, which in turn is likely because your operating system's package manager owns it. You'll need to force the installation of the dependency:

```
:code:`pip install --ignore-installed $OFFENDING_DEPENDENCY`
```

For example, if you get an error like the following:

```
::

    Traceback (most recent call last):
    File "<string>", line 17, in <module>
    ...
    File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
        raise VersionConflict(dist, req)
    pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))
```

You can fix it by doing:

```
::

    sudo pip install --ignore-installed six
```

* * * see compiler errors on some platforms when either installing from source or from the source distribution**

If you see

```
::

    /tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
    #include "Python.h"
    ^
    compilation terminated.
```

You can fix it by installing `python-dev` package. i.e

```
::

    sudo apt-get install python-dev
```

If you see something similar to:
static const Type kPosMax = SIGNED_INT_MAX(Type); \\ ^
And your toolchain is GCC (at the time of this writing, up through at least GCC 6.0), this is probably a bug where GCC chokes on constant expressions when the `--fwrapv` flag is specified. You should consider setting your environment with `CFLAGS=-fno-wrapv` or using clang (`CC=clang`).

Usage
-----

Given protobuf include directories `$INCLUDE`, an output directory `$OUTPUT`, and proto files `$PROTO_FILES`, invoke as:

```bash
$ python -m grpc.tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT $PROTO_FILES
```

To use as a build step in distutils-based projects, you may use the provided command class in your `setup.py`:

```python
setupoptions.setup(
    # ...
    cmdclass={
        'build_proto_modules': grpc.tools.command.BuildPackageProtos,
    }
    # ...
)
```

Invocation of the command will walk the project tree and transpile every `.proto` file into a `.pb2.py` file in the same directory.

Note that this particular approach requires `grpcio-tools` to be installed on the machine before the setup script is invoked (i.e. no combination of `setup_requires` or `install_requires` will provide access to `grpc.tools.command.BuildPackageProtos` if it isn't already installed). One way to work around this can be found in our `grpcio-health-checking` package <https://pypi.python.org/pypi/grpcio-health-checking>:
class BuildPackageProtos(setuptools.Command):
    """Command to generate project *_pb2.py modules from proto files."""
    # ...
    def run(self):
        from grpc.tools import command
        command.build_package_protos(self.distribution.package_dir[""

    Now including :code:`grpcio-tools` in :code:`setup_requires` will provide the
command on-setup as desired.

    For more information on command classes, consult :code:`distutils` and
:code:`setuptools` documentation.

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
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Found in path(s):
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar-gz/grpcio-tools-1.34.0/grpcio_tools.egg-info/PKG-INFO
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar-gz/grpcio-tools-1.34.0/PKG-INFO

1.1344 shim 15-11
1.1344.1 Available under license:
    No license file was found, but licenses were detected in source scan.

    License: BSD

    Found in path(s):
* /opt/cola/permits/1176576763_1624999713.77/0/shim-15-11.el8-1.src.rpm-cosi-expand-archive-QW8y2e4C/shim.spec

1.1345 bash 4.2.46 34.el7
1.1345.1 Available under license:

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.
This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.
Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.1372 dash 0.5.10.2 5

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---
1.1374 pyasn1 0.4.8
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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier: Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
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Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO
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ASN.1 library for Python
------------------------

[!][PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000))([https://pypi.org/project/pyasn1)
[!][Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)[](https://pypi.org/project/pyasn1/)
[!][GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)
This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:
bash
Record ::= SEQUENCE {
  id INTEGER,
  room [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}

Could be expressed in pyasn1 like this:

def class Record(Sequence):
  componentType = NamedTypes(  
    NamedType('id', Integer()),  
    OptionalNamedType(  
      'room', Integer().subtype(  
        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)  
      )  
    ),  
    DefaultedNamedType(  
      'house', Integer(0).subtype(  
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)  
      )  
    )  
  )

It is in the spirit of ASN.1 to take abstract data description 
and turn it into a programming language specific form. 
Once you have your ASN.1 data structure expressed in Python, you 
can use it along the lines of similar Python type (e.g. ASN.1 
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()  
>>> record['id'] = 123  
>>> record['room'] = 321  
>>> str(record)  
Record:  
  id=123  
  room=321  
```

Part of the power of ASN.1 comes from its serialisation features. You 
can serialise your data structure and send it over the network.

```python
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
...    id is 123
...    room is 321
...    house is 0
...>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

```
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* `/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_encoder.py`
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* `/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/__main__.py`
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**ASN.1 library for Python**

```
.. toctree::
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Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

```

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers>`_
or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example.

Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Applying, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.
On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
--------------

.. toctree::
:maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
:maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
:maxdepth: 2

/download

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
:maxdepth: 1

/changelog

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-------

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.. toctree::
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/license
Getting help
-------------

`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_ or search

Books on ASN.1
-------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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Written by: Philip Hazel
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case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function: `\{ case (a, b) => ... \}
val x: ((Int, Int) => Int) = ((a, b)) => a)
   ^
not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function: `\{ case (param1, param2) => ... \}
val y: ((Int, Int, Int) => Int) = ((a, !)) => a)
   ^
not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple3,
   or consider a pattern matching anonymous function: `\{ case (param1, ..., param3) => ... \}
val z: ((Int, Int, Int) => Int) = ((a, NotAPatternVariableName, c)) => a)
   ^

three errors found
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.
Ty Coon, President of Vice

That's all there is to it!

*uganda.txt* For Vim version 8.2. Last change: 2020 Jan 08

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VIM REFERENCE MANUAL by Bram Moolenaar

---

*uganda* *Uganda* *copying* *copyright* *license*

SUMMARY

*iccf* *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

---

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the
maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

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4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.
III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a sponsor. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================

Kibaale Children's Centre*kc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both
parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation
Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your
Holland:
Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany:
It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World:
Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe:
Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card:
You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others:
Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
This address is expected to be valid for a long time.

vim:tw=78:ts=8:nowrap:ft=help:norl:
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Voice phone:   (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

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*** Settings ***
Documentation  Test 19-4 - DRS-Disabled-License-Features
Resource  ../../resources/Util.robot
Suite Teardown  Cleanup VIC Appliance On Test Server

*** Test Cases ***
vic-machine create checks DRS setting and RP options
    Set Environment Variable  TEST_TIMEOUT  30m

    ${output}=  Install VIC Appliance To Test Server  additional-args=--memory 8000 --memory-reservation 512 --
memory-shares 6000 --cpu 10000 --cpu-reservation 512 --cpu-shares high
Should Contain {} DRS is recommended, but is disabled
Should Contain {} Memory Limit
Should Contain {} Memory Reservation
Should Contain {} Memory Shares
Should Contain {} CPU Limit
Should Contain {} CPU Reservation
Should Contain {} CPU Shares
*/

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package license

import (
    "fmt"
    "io"
    "os"
    "text/tabwriter"
    "github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Key:	Edition:	Used:	Total:
"
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.LicenseKey)
        fmt.Fprintf(tw, "%s	", v.EditionKey)
        fmt.Fprintf(tw, "%d	", v.Used)
        fmt.Fprintf(tw, "%d	", v.Total)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
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Go support for Protocol Buffers - Google's data interchange format

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*/

package license

import (
type assigned struct {
    *flags.ClientFlag
    *flags.OutputFlag

    id string
}

func init() {
    cli.Register("license.assigned.ls", &assigned{ })
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }

    return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    return nil
}
m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
    return err
}

assigned, err := m.QueryAssigned(ctx, cmd.id)
if err != nil {
    return err
}

return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
")
    for _, v := range res {
        fmt.Fprintf(tw, "%s\t", v.EntityId)
        fmt.Fprintf(tw, "%s\t", v.Scope)
        fmt.Fprintf(tw, "%s\t", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s\t", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license var EvalLicense = types.LicenseManagerLicenseInfo{
LicenseKey: "00000-00000-00000-00000-00000-00000",
EditionKey: "eval",
Name: "Evaluation Mode",
Properties: []types.KeyAnyValue{
  
  Key: "feature",
  Value: types.KeyValue{
    Key: "serialuri:2",
    Value: "Remote virtual Serial Port Concentrator",
  },
  },
  
  Key: "feature",
  Value: types.KeyValue{
    Key: "dvs",
    Value: "vSphere Distributed Switch",
  },
}


type LicenseManager struct {
  mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
  m := &LicenseManager{}
  m.Self = ref
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

  if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }

  return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{}
  },
}

for _, license := range m.Licenses {
  if license.LicenseKey == req.LicenseKey {
    body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
    return body
  }
}
m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
LicenseKey: req.LicenseKey,
Labels:     req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
body := &methods.RemoveLicenseBody{
Res: &types.RemoveLicenseResponse{},
}

for i, license := range m.Licenses {
if req.LicenseKey == license.LicenseKey {
m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
return body
}
}

return body

}

type LicenseAssignmentManager struct {
mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
body := &methods.QueryAssignedLicensesBody{
Res: &types.QueryAssignedLicensesResponse{},
}

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
if req.EntityId != Map.content().About.InstanceUuid {
    id := types.ManagedObjectReference{
        Type: "HostSystem",
        Value: req.EntityId,
    }
    if Map.Get(id) == nil {
        return body
    }
}
body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    EntityId: req.EntityId,  
    AssignedLicense: EvalLicense,  
}
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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tomb - support for clean goroutine termination in Go.

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/

package license

import (
 "context"

 "github.com/vmware/govmomi/object"
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/types"
)

type AssignmentManager struct {
 object.Common
 }

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:     m.Reference(),
        EntityId: id,
    }

    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
        EntityId: id,
    }

    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)
    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:              m.Reference(),
        Entity:            id,
        LicenseKey:        key,
        EntityDisplayName: name,
    }

    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return &res.Returnval, nil
}

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package license

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    "context"
    "strconv"
    "strings"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }
    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m.Reference(),

LicenseKey: key,
Labels: mapToKeyValues(slice(labels),
}

res, err := methods.AddLicense(ctx, m.Client(), &req)
if err != nil {
    return types.LicenseManagerLicenseInfo{}, err
}

return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This: m.Reference(),
        LicenseKey: key,
    }

    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This: m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This: m.Reference(),
        LicenseKey: key,
        Labels: mapToKeyValues(slice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}
func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }

    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }

    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }

    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }

    return &am, nil
}

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    f := strings.Split(feature, ":")

    if len(f) > 1 {
        var err error
        return nil, err
    }

    lf := new(licenseFeature)
    lf.name = f[0]

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)
    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }
        kv, ok := p.Value.(types.KeyValue)
        if !ok {
            continue
        }
        lf := parseLicenseFeature(kv.Key)
        if lf.name == feature.name && lf.level >= feature.level {
            return true
        }
    }
    return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList
    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }
    return result
}
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package license

import (  
  "context"  
  "flag"  
  "github.com/vmware/govmomi/govc/cli"  
  "github.com/vmware/govmomi/govc/flags"  
  "github.com/vmware/govmomi/license"  
  "github.com/vmware/govmomi/vim25/types"
)

type assign struct {  
  *flags.ClientFlag  
  *flags.OutputFlag  
  *flags.HostSystemFlag  
  *flags.ClusterFlag  

  name string  
  remove bool
func init() {
    cli.Register("license.assign", &assign{})
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)

    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)

    f.StringVar(&cmd.name, "name", "", "Display name")
    f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return "Assign licenses to HOST or CLUSTER."

    Examples:
        govc license.assign $VCSA_LICENSE_KEY
        govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
        govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY"
func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
    key := f.Arg(0)

    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    host, err := cmd.HostSystemIfSpecified()
    if err != nil {
        return err
    }

    var id string

    if host == nil {
        cluster, cerr := cmd.ClusterIfSpecified()
        if cerr != nil {
            return cerr
        }
        if cluster == nil {
            // Default to vCenter UUID
            id = client.ServiceContent.About.InstanceUuid
        } else {
            id = cluster.Reference().Value
        } else {
            id = host.Reference().Value
        }
    } else {
        id = host.Reference().Value
    }

    if cmd.remove {
        return m.Remove(ctx, id)
    }

    info, err := m.Update(ctx, id, key, cmd.name)
    if err != nil {
        return err
    }
}
return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))
}

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>>> aws_sdk-go_aws-master
>>> coreos_etcd_client-781196fa8746d6c34ae2a62898051af6dc46002
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>>> docker_distribution-28602af35aceda2f8d571bad7ca37a54ef0250bc
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>>> docker_libtrust-9cbd2a1374f46905c68a4eb3694a130610ad62a
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>>> golang_glog_tap-23def4e6e14b4da8a2ed8007337bc5eb5007998
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>>> oxtocart/bpool-4e1c55f5677c2dd59fa4c783d34c2f3528b025d6
>>> syncutil_singleflight-7ce08ca145dbe0e66a127c447b80e7e7914f3e4f9
>>> vdemeester_shakers-24d7fa617aa5d9cbe7390e4af6b667eef9e1b3
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>>> vishvananda_netlink-482f7a52b758233521878cb6c5904f6bd63f3457
>>> vishvananda_netns-604eaf189ee867d8c147fafc28def2394e878d25
>>> yamal_v2-4c78ec975fe7c825c6d1466c42be594d1d6f3aba6

>>> asaskevich_govalidator-9699a6b338be2e020c3f8899ec6f7665395e96
>>> azur-go-anisiterm-70b2c90b260171e829f1ed7c17f600c11858d9de
>>> bolddb_bolt-b514920ff82e0a6f88f57e5a12c7743f585a59ae9f
>>> cenkalti_backoff-b0f2f2bbce11d7ea6b97f282ef17710b0f26f5e3f3
>>> client9_misspell-9a1fc2456ace9e8cb94eb6055d67ad0d357f
>>> codegangsta/inject-33e0a1cb7c019cc3fbec0949a8262a6403d30504
>>> codegangsta_cli-master

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>>> d2g_dhcp4-0e04d29f0231dce36e250b2ed9ff08412584bca
>>> deckarep_golang-set-1f0f4988d3fbbf93285229937e1c35890f67554
>>> dustin_go-humanize-259d2a102b871d17f30ece9d8981a642961a3486
>>> genniasium_logrus-airbrake-hook_v2-31e6d4d250a98d88e7673d24b54ec73c31810dd
>>> gizak_termui-798ffbebe4073e1b80609ca4a2e6a46676b
>>> go-check_check-20d25e2804050c1cd24a7ee1a7d447d0c0e74ec
>>> go-martini/martini-22fa4691aaabdd665cf3134b146d2002850701
>>> go-nfs-client-42fca177a36031d648551c7517e1da5f55d4df0
>>> godbus_dbus-230e4b23dbf2d81c53eaa0073f76659d4849ace51
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>>> google_googleapis_gax-go-da06d194a00e19ce00d9011a13931c5f6f6887c7
>>> gorilla_context-1c833b3edbc45b6d76072b66b746c20815fb2b872d
>>> gorilla_mux-acf3be1b335c8ce30b2ed51300984666f0ceeffa
>>> gorilla_securecookie-fa5329f913702981d4f3db2a380bace429c810b5
>>> gorilla_sessions-ca9ada4457415344400d3f9c8559e4c9f896
>>> gorilla_websocket-a91eb7f977777409b2c443f5534d41dd20c5720
>>> graylog2_go-gelf_gelf-master
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>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
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>>> coreutils-8.27-3.ph2
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>>> glibc-2.26-13.ph2
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Gocheck - A rich testing framework for Go

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>>> go-nfs-client-42fca177a36031d648551c751de1daf5f55dd4f0

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go-nfs-client-42fca177a36031d648551c751de1da5f55dd4f0.tar
fs/util/log.go

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>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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>>> gogo_protobuf_gogoproto-6a92c871a8f5333cf106b2cdf937567208&dbb2b7

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>>> goji/param-d7f49fd7d1ed53fd562e737a8b5bbcc7e3d925e2

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>>> googleapis_gax-go-da06d194a00e19ce00d9011a13931c3f6f6887c7

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>>> graylog2_go-gelf_gelf-master

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tomb - support for clean goroutine termination in Go.

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>>> x_oauth2-1611bb46e67abc64a71ecc5c3ae67f1ebbc2b921

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+build appengine

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It is designed to run only on the instance of godoc that serves golang.org.
package short

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>>> curl-7.59.0-3.ph2

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lib/gssapi/mechglue/g_acquire_cred.c  
lib/gssapi/mechglue/g_canon_name.c  
lib/gssapi/mechglue/g_compare_name.c  
lib/gssapi/mechglue/g_context_time.c  
lib/gssapi/mechglue/g_delete_sec_context.c  
lib/gssapi/mechglue/g_dsp_name.c  
lib/gssapi/mechglue/g_dsp_status.c  
lib/gssapi/mechglue/g_dup_name.c  
lib/gssapi/mechglue/g_exp_sec_context.c  
lib/gssapi/mechglue/g_export_name.c  
lib/gssapi/mechglue/g_glue.c  
lib/gssapi/mechglue/g_imp_name.c
and the initial implementation of incremental propagation, including
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)
@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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```
-- vile: txtmode file-encoding=utf-8

>>> openssh-7.5p1-10.ph2

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```
>>> iproute2-4.10.0-3.ph2
```

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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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netinet	tcp.h

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
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his C header file is part of the SoftFloat IEC/IEEE Floating-point Arithmetic Package, Release 2.

Written by John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the Web page http://www.jhauser.us/arithmetic/SoftFloat-2b/SoftFloat-source.txt

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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

http://lwn.net/Kernel/LDD3/

However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

Please send questions/comments/patches about Linux PCI API to the "Linux PCI" <linux-pci@atrey.karlin.mff.cuni.cz> mailing list.

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toolparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY :-) by Nicolai Langfeldt (janl@math.uio.no) to read /etc/passwd directly so that passwd, chsh and chfn can work on machines that run NIS (previously YP). Changes will not be made to usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but /use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn, chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let those who say nay be forever silent and think about how getpwnam (and family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to stderr, this is a library function and should not print on the screen, but return appropriate error codes.
27-Jan-97  - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Bison implementation for Yacc-like parsers in C


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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.
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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without
allocating any. It is a good idea to use alloca(0) in
your main control loop, etc. to force garbage collection.

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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Heavily modified for GnuPG by Werner Koch

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This module is part of the cryptlib continuously seeded pseudorandom
number generator. For usage conditions, see lib_rand.c

[Here is the notice from lib_rand.c:]

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DRBG: Deterministic Random Bits Generator

Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:

- CTR DRBG with DF with AES-128, AES-192, AES-256 cores
- Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
- HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores

with and without prediction resistance

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Test Socket Type

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Version 3, 29 June 2007

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Version 3, 29 June 2007

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Version 2.0

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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
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----------------------------------------

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Important Recommendations

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[VIC15GAMS010319]

Gocheck - A rich testing framework for Go

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package license

import {
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
}

type decode struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}

func init() {
    cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.feature, "feature", ",", featureUsage)
}
func (cmd *decode) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    var result license.InfoList
    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {
            return err
        }
        result = append(result, license)
    }
    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }
    return cmd.WriteResult(licenseOutput(result))
}

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# Purpose:
To verify that vic-machine create checks for the DRS setting and command flags specific to resource pools in a vSphere environment without DRS, such as a ROBO deployment. If a VCH is being installed in a DRS-disabled environment, vic-machine create should warn that DRS is disabled and mention that any resource pool options supplied in the command will be ignored as they are not applicable in this environment.

# References:
2. [Provide License and Feature Check](https://github.com/vmware/vic/issues/7277)
3. [vic-machine to provide license and feature check](https://github.com/vmware/vic/issues/7275)

# Environment:
This test requires access to VMware Nimbus cluster for dynamic ESXi and vCenter creation. This test should be executed in a vCenter environment with a cluster that has DRS turned off.

See https://confluence.eng.vmware.com/display/CNA/VIC+ROBO for more details.

# Test Steps:
1. Deploy a vCenter testbed with DRS disabled
2. Using vic-machine create, install a VCH with compute resource set to the cluster where DRS is off. Also supply options that are specific to resource pools: cpu, cpu-shares, cpu-reservation, memory, memory-shares and memory-reservation.
3. Delete the VCH

# Expected Outcome:
* All test steps should complete without error
* Step 2's output should contain a message stating that DRS is disabled and that the provided resource pool options will be ignored.

# Possible Problems:
None

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package gobrake

import (  
    "fmt"  
    "net/http"
)

type Error struct {
    Type      string       `json:"type"`
    Message   string       `json:"message"`
    Backtrace []StackFrame `json:"backtrace"`
}

type Notice struct {
    Errors  []Error                `json:"errors"`
    Context map[string]interface{} `json:"context"`
    Env     map[string]interface{} `json:"environment"`
    Session map[string]interface{} `json:"session"`
    Params  map[string]interface{} `json:"params"`
}

func NewNotice(e interface{}, req *http.Request, depth int) *Notice {
    stack := stack(depth)
    notice := &Notice{
        Errors: []Error{
            {  
                Type:      fmt.Sprintf("%T", e),
                Message:   fmt.Sprintf(e),
                Backtrace: stack,
            },
            Context: map[string]interface{} {
                "notifier": map[string]interface{} {
                    "name": "gobrake",
                    "version": "2.0.3",
                    "url": "https://github.com/airbrake/gobrake",
                },
            },
        },
    }
    return notice
}
Env:  map[string]interface{}{},
Session: map[string]interface{}{},
Params:  map[string]interface{}{},

if req != nil {
    notice.Context["url"] = req.URL.String()
    if ua := req.Header.Get("User-Agent"); ua != "" {
        notice.Context["userAgent"] = ua
    }
    for k, v := range req.Header {
        if len(v) == 1 {
            notice.Env[k] = v[0]
        } else {
            notice.Env[k] = v
        }
    }
    if err := req.ParseForm(); err == nil {
        for k, v := range req.Form {
            if len(v) == 1 {
                notice.Params[k] = v[0]
            } else {
                notice.Params[k] = v
            }
        }
    }
}

return notice
}

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package github

import (  "context"  "fmt"
)

// LicensesService handles communication with the license related methods of the GitHub API.

// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

type RepositoryLicense struct {
  Name *string `json:"name,omitempty"`
  Path *string `json:"path,omitempty"`

  SHA *string `json:"sha,omitempty"`
}
Size  *int  `json:"size,omitempty"
URL   *string  `json:"url,omitempty"
HTMLURL  *string  `json:"html_url,omitempty"
GitURL  *string  `json:"git_url,omitempty"
DownloadURL  *string  `json:"download_url,omitempty"
Type  *string  `json:"type,omitempty"
Content  *string  `json:"content,omitempty"
Encoding  *string  `json:"encoding,omitemempty"
License  *License  `json:"license,omitempty"

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key  *string  `json:"key,omitempty"
    Name *string  `json:"name,omitempty"
    URL  *string  `json:"url,omitempty"

    SPDXID         *string  `json:"spdx_id,omitempty"
    HTMLURL        *string  `json:"html_url,omitempty"
    Featured       *bool  `json:"featured,omitempty"
    Description    *string  `json:"description,omitempty"
    Implementation *string  `json:"implementation,omitempty"
    Permissions   *[]string  `json:"permissions,omitempty"
    Conditions    *[]string  `json:"conditions,omitempty"
    Limitations   *[]string  `json:"limitations,omitempty"
    Body           *string  `json:"body,omitempty"
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.

// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)
var licenses []*License
resp, err := s.client.Do(ctx, req, &licenses)
if err != nil {
    return nil, resp, err
}

return licenses, resp, nil

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
u := fmt.Sprintf("licenses/%s", licenseName)

req, err := s.client.NewRequest("GET", u, nil)
if err != nil {
    return nil, nil, err
}

return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

license := new(License)
resp, err := s.client.Do(ctx, req, license)
if err != nil {
    return nil, resp, err
}

return license, resp, nil

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```>> golang_glog-23def4e6c14b4da8ac2ed8007337bc5eb5007998

Go support for leveled logs, analogous to https://code.google.com/google-glog

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```>> golang_groupcache_lru-72d04f9fcedc7d3821820cc4a6f150eae553639a

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>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8ddb6f0f2

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>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96

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>>> cenkalti_backoff-b02f2bbece11d7ea6b97f282ef1771b0fe2f65ef3

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>>> client9_misspell-9a1fc2456ac9e8c9b4cbe9d005b6e7dac0d357f

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>>> codegangsta/inject-33e0aa1cb7c019ccc3fbeb049a8262a6403d30504

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>>> codegangsta_cli-master

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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>>> deckarep_golang-set-1f0f4ff8d3fbef9328522993ce71c35890f67554

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>>> dustin_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> gizak_termui-798ffb9cbbe4073ef1f88e6069ca4a2c6aa6676b

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>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec

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>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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>>> gogo_protobuf_gogoproto-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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>>> urfave_cli_v1-0bddddeeb0f650497d603c4ad7b20cfe685682f6

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>>> x_crypto_acme-728b753d0135da6801d45a38e6f43ff55779c5c2

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>>> x_crypto_curve25519-728b753d0135da6801d45a38e6f43ff55779c5c2

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```python
>>> x_crypto_ed25519-728b753d0135da6801d45a38e6f43ff55779e5c2
```

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>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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>>> x_crypto_poly1305-728b753d0135da6801d45a38e6f43ff55779c5c2
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+build appengine
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package short

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```text
>>> x_tools_imports-381149a2d6e5d8f319ccf04bfe71e03a78b868
```

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>>> zenazn/goji-c05078ca81941f8e801bba3ddc0e6b86b7fde893

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Julian Seward, jseward@bzip.org
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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
and the initial implementation of incremental propagation, including the following new or changed files:

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

Please send questions/comments/patches about Linux PCI API to the "Linux PCI" <linux-pci@atrey.karlin.mff.cuni.cz> mailing list.

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mkinstalldirs --- make directory hierarchy
Author: Noah Friedman <friedman@prep.ai.mit.edu>
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procps-ng-3.3.15.tar.xz\procps-ng-3.3.15.tar\procps-ng-3.3.15\pmap.c

pmap.c - print process memory mapping
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Based on scriptreplay.pl by Joey Hess <joey@kitenet.net>

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2.32\text-utils\line.c

line - read one line


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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no) to read /etc/passwd directly so that passwd, chsh and chfn can work on machines that run NIS (previously YP). Changes will not be made to usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but /use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn, chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let those who say nay be forever silent and think about how getpwnam (and family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to stderr, this is a library function and should not print on the screen, but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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error.c -- Functions for handling errors.

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bash-4.4.tar.gz/bash-4.4.tar/bash-4.4/parser-built

A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
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There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without
allocating any. It is a good idea to use alloca(0) in
your main control loop, etc. to force garbage collection.

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
library”. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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---------- SECTION 5: GNU Lesser General Public License, V2.1 ----------

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Version 2.1, February 1999

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
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   b. If the search is unsuccessful or no action to resume active maintenance is taken by the Current Maintainer, then announce within the pertinent community your intention to take over maintenance. (If the Work is a LaTeX work, this could be done, for example, by posting to comp.text.tex.)

3a. If the Current Maintainer is reachable and agrees to pass maintenance of the Work to you, then this takes effect immediately upon announcement.

   b. If the Current Maintainer is not reachable and the Copyright Holder agrees that maintenance of the Work be passed to you, then this takes effect immediately upon announcement.

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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package license

import (  
  "context"  
  "flag"  
  "github.com/vmware/govmomi/govc/cli"  
  "github.com/vmware/govmomi/govc/flags"  
  "github.com/vmware/govmomi/license"
type remove struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.remove", &remove{ })
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }
    return nil
}
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*/

package license

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  "github.com/vmware/govmomi/govc/cli"  "github.com/vmware/govmomi/govc/flags"  "github.com/vmware/govmomi/license"
type add struct {
  *flags.ClientFlag
  *flags.OutputFlag
}

func init() {
  cli.Register("license.add", &add{})
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)

  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }

  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }

  return nil
}

func (cmd *add) Usage() string {
  return "KEY...
"
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
  client, err := cmd.Client()
  if err != nil {
    return err
  }

  m := license.NewManager(client)

  // From the vSphere 5.5 documentation:
  //
  // To specify the edition type and any optional functions, use
  //  updateLicense for ESX Server and addLicense follow by
  //  LicenseAssignmentManager.updateAssignedLicense for VirtualCenter.
  //
```go
var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
switch t := client.ServiceContent.About.ApiType; t {
case "HostAgent":
  addFunc = m.Update
case "VirtualCenter":
  addFunc = m.Add
default:
  return fmt.Errorf("unsupported ApiType: %s", t)
}

result := make(licenseOutput, 0)
for _, v := range f.Args() {
  license, err := addFunc(ctx, v, nil)
  if err != nil {
    return err
  }
  result = append(result, license)
}

return cmd.WriteResult(licenseOutput(result))
}

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package license

import (  
  "context"  
  "flag"

  "github.com/vmware/govmomi/govc/cli"  
  "github.com/vmware/govmomi/govc/flags"  
  "github.com/vmware/govmomi/license"
```
var featureUsage = "List licenses with given feature"

type ls struct {
  *flags.ClientFlag
  *flags.OutputFlag

  feature string
}

func init() {
  cli.Register("license.ls", &ls{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)

  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)

  f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }

  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }

  return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
  client, err := cmd.Client()
  if err != nil {
    return err
  }

  m := license.NewManager(client)
  result, err := m.List(ctx)
  if err != nil {
    return err
  }

  if cmd.feature != "" {
result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))
}

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  jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
  jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
  jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
  jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
  jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
  jar/io/netty/handler/ssl/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
  jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
  jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
  jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
  jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
  jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
  jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/SSLFile.java
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/OpenSslTrustManagerFactory.java
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/SslUtils.java

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  jar/io/grpc/internal/AbstractSubchannel.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
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* /opt/ws_local/PERMITS_SQL/1094803147_1601321847.24/0/wildfly-elytron-ssl-1-11-4-final-sources-jar/org/wildfly/security/ssl/SecurityDomainTrustManager.java

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1.1418 netty-codec 4.1.48.Final

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jar/io.netty.handler.codec/DefaultHeaders.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
jar/io.netty.handler.codec/Headers.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4.1.48-final-sources-2.jar/io/netty/handler/codec/base64/Base64.java
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
jar/io/netty/handler/codec/compression/CompressionUtil.java
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* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
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* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
A decoder that splits the received ByteBufs dynamically by the value of the length field in the message. It is particularly useful when you decode a binary message which has an integer header field that represents the length of the message body or the whole message.

- lengthFieldOffset = 0
- lengthFieldLength = 2
- lengthAdjustment = 0
- initialBytesToStrip = 0 (= do not strip header)

**BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)**

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 (0x0C)</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>12 (0x0C)</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

*
* 2 bytes length field at offset 0, strip header

* Because we can get the length of the content by calling
  * `ByteBuf.readableBytes()`, you might want to strip the length
  * field by specifying `initialBytesToStrip`. In this example, we
  * specified `2`, that is same with the length of the length field, to
  * strip the first two bytes.

  ```
  lengthFieldOffset   = 0
  lengthFieldLength   = 2
  lengthAdjustment    = 0
  initialBytesToStrip = 2 (= the length of the Length field)
  *
  BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)
  +--------+----------------+      +----------------+
  | Length | Actual Content |----->| Actual Content |
  | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
  +--------+----------------+      +----------------+
  ```

* 2 bytes length field at offset 0, do not strip header, the length field
  * represents the length of the whole message

* In most cases, the length field represents the length of the message body
  * only, as shown in the previous examples. However, in some protocols, the
  * length field represents the length of the whole message, including the
  * message header. In such a case, we specify a non-zero
  * `lengthAdjustment`. Because the length value in this example message
  * is always greater than the body length by `2`, we specify `-2` for
  * compensation.

  ```
  lengthFieldOffset   = 0
  lengthFieldLength   = 2
  lengthAdjustment    = -2 (= the length of the Length field)
  initialBytesToStrip = 0
  *
  BEFORE DECODE (14 bytes)      BEFORE DECODE (14 bytes)
  +--------+----------------+      +--------+----------------+
  | Length | Actual Content |----->| Length | Actual Content |
  | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
  +--------+----------------+      +--------+----------------+
  ```

* 3 bytes length field at the end of 5 bytes header, do not strip header

* The following message is a simple variation of the first example. An extra
  * header value is prepended to the message. `lengthAdjustment` is zero
  * again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* `<pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* `3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
* header into the frame length calculation.
* `<pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* `2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra
* header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero
* `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.
* `<pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
* OPEN SOURCE USED IN SDWAN 20.7.1 15550
BEFORE DECODE (16 bytes)  AFTER DECODE (13 bytes)
+---------------------------+---------------------------+
| HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+---------------------------+---------------------------+

</pre>

<i>2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field, the length field represents the length of the whole message</i>

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example.

We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

lengthFieldOffset = 1
lengthFieldLength = 2
lengthAdjustment = <b>-3</b> (= the length of HDR1 + LEN, negative)
initialBytesToStrip = <b>3</b>

BEFORE DECODE (16 bytes)  AFTER DECODE (13 bytes)
+---------------------------+---------------------------+
| HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+---------------------------+---------------------------+
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* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
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* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
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jar/io/netty/handler/codec/EncoderException.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
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* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
jar/io/netty/handler/codec/serialization/ReferenceMap.java

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* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
  jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
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* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
  jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
  jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
  jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1177956827_1625584670.38/0/netty-codec-4-1-48-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
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1.1420 go-retryablehttp 0.5.4

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1.1422 asm 5.1

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/**
* Creates a new JSRInliner. <i>Subclasses must not use this<br/>
* constructor</i>. Instead, they must use the<br/>
* [ @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]<br/>
* version.<br/>
*<br/>
* @param mv<br/>
* the <code>MethodVisitor</code> to send the resulting inlined<br/>
* method code to (use <code>null</code> for none).<br/>
* @param access<br/>
* the method's access flags (see [ @link Opcodes]). This<br/>
* parameter also indicates if the method is synthetic and/or<br/>
* deprecated.<br/>
* @param name<br/>
* the method's name.<br/>
* @param desc<br/>
* the method's descriptor (see [ @link Type]).<br/>
* @param signature<br/>
* the method's signature. May be <tt>null</tt>.<br/>
* @param exceptions<br/>
* the internal names of the method's exception classes (see<br/>
* [ @link Type#getInternalName() getInternalName]). May be<br/>
* <tt>null</tt>.<br/>
* @throws IllegalStateException<br/>
* If a subclass calls this constructor.<br/>
*/

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*/
/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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* Creates a new [GeneratorAdapter]. <i>Subclasses must not use this constructor</i>. Instead, they must use the [GeneratorAdapter(int, MethodVisitor, int, String, String)] version.

* @param mv
  * the method visitor to which this adapter delegates calls.

* @param access
  * the method's access flags (see [Opcodes]).

* @param name
  * the method's name.

* @param desc
  * the method's descriptor (see [Type]).

* @throws IllegalStateException
  * If a subclass calls this constructor.

/****

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*/
/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 * the owner's class name.
 *
 * @param access
 * the method's access flags (see {@link Opcodes}).
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see {@link Type}).
 *
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 *     a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 *     the path to the annotated type argument, wildcard bound, array
 *     element type, or static inner type within 'typeRef'. May be
 *     <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 *     the fist instructions corresponding to the continuous ranges
 *     that make the scope of this local variable (inclusive).
 * @param end
 *     the last instructions corresponding to the continuous ranges
 */
that make the scope of this local variable (exclusive). This array must have the same size as the 'start' array.

* @param index
* the local variable's index in each range. This array must have the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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 */
/**
 * Constructs a new {[@link ClassNode]. ![i]Subclasses must not use this
 * constructor![i]. Instead, they must use the {[@link #ClassNode(int)}
 * version.
 *
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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## version 0.1
## By Mike Hamburg (Stanford University), 2009
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1.1427 python-setuptools 56.0.0

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1.1428 grpc-netty-shaded 1.30.2

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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can-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.

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1.1444 pth 2.0.7 23.el7

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GNU Pth - The GNU Portable Threads

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* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources-jar/org/springframework/beans/factory/support/BeanDefinitionBuilder.java
* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources-jar/org/springframework/beans/factory/support/ReplaceOverride.java
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* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources-jar/org/springframework/beans/factory/support/CglibSubclassingInstantiationStrategy.java
* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources-jar/org/springframework/beans/factory/config/RuntimeBeanReference.java

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* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources-jar/org/springframework/beans/factory/config/DependencyDescriptor.java
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Julian Seward, jseward@acm.org
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1.1462 jaxb-core 2.3.0

1.1463 jackson 2.9.10
1.1463.1 Available under license :

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1.1470 boost 1.66.0

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Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Kremp (kremp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
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include/GL/gl.h:

Mesa 3-D graphics library

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**include/GL/glext.h**  
**include/GL/glxext.h**  
**include/GL/wglxext.h**

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**----**

**include/KHR/khrplatform.h**

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1478 netty 3.10.6.Final

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1.1487 pc re 8.39 12

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1.1488 jackson 2.9.8

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1.1489 pam 1.1.8 3.2ubuntu2.1

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1.1490 go-sockaddr 1.0.2

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1.1492 iptables 1.6.2

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 */
/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
* <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a></p>
* <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass several pieces of information to the encoder. In the "higher level" methods such as encodeBytes(bytes, options) the options parameter can be used to indicate such things as first gzipping the bytes before encoding them, not inserting linefeeds (though that breaks strict Base64 compatibility), and encoding using the URL-safe and Ordered dialects.</p>
* <p>The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:</p>
* <code><p>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES );</p></code>
* <p>to compress the data before encoding it and then making the output have no newline characters.</p>
* <p>Change Log:</p>
* <ul>
  * <li>v2.2.2 - Fixed encodeFileToFile and decodeFileToFile to use the Base64.InputStream class to encode and decode on the fly which uses less memory than encoding/decoding an entire file into memory before writing.</li>
  * <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~&lt; 40 bytes).</li>
  * <li>v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects:</li>
  * <ol>
    * <li>The default is RFC3548 format.</li>
    * <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in Section 4 of RFC3548.</li>
    * <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described on http://www.faqs.org/qa/rfcc-1940.html</li>
  * </ol>
  * Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com/</a> for contributing the new Base64 dialects.</li>
  * </ul>
  * <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.</li>
  * <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).</li>
  * <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
  * <li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (<tt>int</tt>s that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.</li>
* Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).</li>
* <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself.
* This helps when using GZIP streams.</li>
* Added the ability to GZip-compress objects before encoding them.</li>
* <li>v1.4 - Added helper methods to read/write files.</li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
* where last buffer being read, if not completely full, was not returned.</li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>

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* Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* periodically to check for updates or to contribute improvements.

* @author Robert Harder
* @author rob@iharder.net
* @version 2.2.2
*/

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HISTORY -
Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@miyama.mit.edu), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(·)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated
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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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*m4/ax_func_which_gethostbyname_r.m4

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library.  (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library.  A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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* /opt/cola/permits/1094805742_1602785296.32/0/opentelemetry-context-prop-0-6-0-sources-jar/io/opentelemetry/context/Scope.java
* /opt/cola/permits/1094805742_1602785296.32/0/opentelemetry-context-prop-0-6-0-sources-jar/io/opentelemetry/context/propagation/ContextPropagators.java
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1.1522 artemis-service-extensions 2.10.1

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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1.1524 html5lib 1.0b10

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jar/io/undertow/util/UrlDecodeException.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/proxy/RouteParsingStrategy.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/proxy/RouteIteratorFactory.java

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*/
/**
* Encodes and decodes to and from Base64 notation.
* </p>
* </p>
* </p>
* </p>
* **Example:**
* </p>
*<code>String encoded = Base64.encode( myByteArray );</code> <br />
*<code>byte[] myByteArray = Base64.decode( encoded );</code> *
* <p>
* The &lt;tt&gt;options&lt;/tt&gt; parameter, which appears in a few places, is used to pass several pieces of information to the
encoder.
* In the "higher level" methods such as encodeBytes( bytes, options ) the options parameter can be used to indicate
such things
* as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and
Ordered
* dialects.
* </p>
* </p>
* <p>
* Note, according to &lt;a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>, Section 2.1, implementations
should not add
* line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke
lines
* by default.
* </p>
* </p>
* <p>
* The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:
* </p>
* </p>
*<code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code> *
* to compress the data before encoding it and then making the output have newline characters.
* </p>
* </p>
* Also...
* </p>
* <code>String encoded = Base64.encodeBytes( crazyString.getBytes() );</code>

* Change Log:

* v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base 64 character
  * but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential for better handling) of other bad input characters. You should now get an IOException if you try decoding something that has bad characters in it.

* v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was not properly shrunk and contained an extra (null) byte that made it into the string.

* v2.3.5 - Fixed bug in [ @link #encodeFromFile ] where estimated buffer size was wrong for files of size 31, 34, and 37 bytes.

* v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the Base64.OutputStream closed the Base64 encoding (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped streams. Also added experimental support for specifying a class loader when using the [ @link #decodeToObject(String, int, ClassLoader) ] method.

* v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its CharEncoders and so forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException explicitly inline.

* v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be so that the code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win when using the [ @link #encodeBytesToBytes(byte[]) ] family of methods (and not using the gzip options which uses a different mechanism with streams and stuff).

* v2.3.1 - Added [ @link #encodeBytesToBytes(byte[], int, int, int) ] and some similar helper methods to be more efficient with memory by not returning a String but just a byte array.

* v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments and bug fixes queued up and finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null values or
* something similar. Here are some changes that may affect you:

* <ul>
  * Does not break lines, by default. This is to keep in compliance with RFC3548.
  * Throws exceptions instead of returning null values. Because some operations (especially those that may permit the GZIP option) use IO streams, there is a possibility of an java.io.IOException being thrown. After some discussion and thought, I've changed the behavior of the methods to throw java.io.IOExceptions rather than return null if ever there's an error. I think this is more appropriate, though it will require some changes to your code. Sorry, it should have been done this way to begin with.
  * Removed all references to System.out, System.err, and the like. Shame on me. All I can say is sorry they were ever there.
  * Throws NullPointerExceptions and IllegalArgumentExceptions as needed such as when passed arrays are null or offsets are invalid.
  * Cleaned up as much javadoc as I could to avoid any javadoc warnings. This was especially annoying before people who were thorough in their own projects and then had gobs of javadoc warnings on this file.
  * v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~<40 bytes).
  * v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
    * The default is RFC3548 format.
    * Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in Section 4 of RFC3548. http://www.faqs.org/rfcs/rfc3548.html
    * Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described in http://www.faqs.org/qa/rfcc-1940.html
    * Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new Base64 dialects.
  * v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.
  * v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).
  * v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
  * v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner.
</ul>
The code
* now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are
* cleaner. You'll probably have to change some method calls that you were making to support the new options format (  
  
* <tt>int</tt>s that you "OR" together).
* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.  
  
* Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed
  
  * base64 data in an otherwise "normal" stream (like an XML file).  
  
* v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams.  
  
* the ability to GZip-compress objects before encoding them.  
* v1.4 - Added helper methods to read/write files.  
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.  
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not  
  
* completely full, was not returned.  
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.  
* v1.3.3 - Fixed I/O streams which were totally messed up.  
* <ul>
  
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* with plenty of well-wishing instead! Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute improvements.
* </p>
*  
* @author Robert Harder  
* @author rob@iharder.net  
* @version 2.3.7  
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/websockets/core/protocol/version07/Base64.java
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 */
/**
 * An extension to {@link AbstractConfidentialityHandler} that uses the Host header from the incoming message
 * and specifies the
 * confidential address by just switching the port.
 *
 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
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#
io.undertow.protocols.alpn.JDK8HackAlpnProvider
io.undertow.protocols.alpn.JettyAlpnProvider
io.undertow.protocols.alpn.JDK9AlpnProvider
io.undertow.protocols.alpn.OpenSSLAlpnProvider

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*/
/**
* Handler responsible for checking of confidentiality is required for the requested resource and if so rejecting the
* request and redirecting to a secure address.
* *
* @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
*/
/**
* Use the HttpServerExchange supplied to check if this request is already 'sufficiently' confidential.
* *
* Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual
* SSLSession.
* *
* @param exchange - The {@link HttpServerExchange} for the request being processed.
* @return true if the request is 'sufficiently' confidential, false otherwise.
*/
/**
* Use the HttpServerExchange to identify if confidentiality is required.
* *
* This method currently returns true for all requests, sub-classes can override this to provide a custom check.
* *
* TODO: we should deprecate this and just use a predicate to decide to execute the handler instead
* *
* @param exchange - The {@link HttpServerExchange} for the request being processed.
* @return true if the request requires confidentiality, false otherwise.
*/
/**
* All sub-classes are required to provide an implementation of this method, using the HttpServerExchange for the
* current request return the address to use for a redirect should confidentiality be required and the request not be
* confidential.
* *
* @param exchange - The {@link HttpServerExchange} for the request being processed.
* @return The { @link URI} to redirect to.
*/

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*/opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/security/handlers/AbstractConfidentialityHandler.java
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  jar/io/undertow/server/handlers/StuckThreadDetectionHandler.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
  jar/io/undertow/util/LegacyCookieSupport.java
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* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/ssl/SNISSLContext.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/alpn/DefaultAlpnEngineManager.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/alpn/SNIAlpnEngineManager.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/alpn/ALPNEngineManager.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/ssl/SNISSLExplorer.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/ssl/SNISSLEngine.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/ssl/SNISSLEngineSpi.java

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* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/websockets/core/protocol/version07/WebSocket07Channel.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/utils/SameThreadExecutor.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/client/ajp/AjpClientExchange.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-client/UndertowClientMessages.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-server/protocol/http/ALPNBannedCiphers.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-server/protocols/http2/ConnectionErrorException.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-server/protocols/http2/BytesSentAttribute.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-server/protocols/alpn/JettyAlpnProvider.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-server/protocol/http/HttpContinue.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-util/ClosingChannelExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-util/Cookies.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-util/HostAndPortAttribute.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-util/ResponseReasonPhraseAttribute.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-util/RequestLineAttribute.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow/websockets/client/WebSocketClientHandshake.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow/security/api/NonceManager.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow/websockets/core/UTF8Output.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow/client/ClientExchange.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow/client/PushCallback.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/proxy/ProxyConnection.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/protocols/ajp/AjpClientResponseStreamSourceChannel.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/HttpUpgradeHandshake.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/attribute/ExchangeAttributeParser.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/protocol/http/ALPNOfferedClientHelloExplorer.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/websockets/core/WebSocketFramePriority.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/protocols/alpn/ALPNProvider.java
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jar/io/undertow/attribute/ResponseCodeAttribute.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/util/HeaderMap.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/security/idm/Credential.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/PathSeparatorHandler.java
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jar/io/undertow/predicate/EqualsPredicate.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
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* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
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import undertow.protocols.alpn.DefaultAlpnEngineManager

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* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/META-INF/services/io.undertow.protocols.alpn.ALPNEngineManager

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*/
/**
** *
* Returns an array containing all of the elements in this deque, in
* proper sequence (from first to last element).
* *
* <p>The returned array will be "safe" in that no references to it are
* maintained by this deque. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
* *
* <p>This method acts as bridge between array-based and collection-based
* APIs.
* *
* @return an array containing all of the elements in this deque
*/

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* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
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* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
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* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/CookieSameSiteMode.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

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No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: azure-mgmt-network
Version: 10.2.0
Summary: Microsoft Azure Network Management Client Library for Python
Home-page: https://github.com/Azure/azure-sdk-for-python
Author: Microsoft Corporation
Author-email: azpysdkhelp@microsoft.com
License: MIT License
Description: # Microsoft Azure SDK for Python

This is the Microsoft Azure Network Management Client Library.
This package has been tested with Python 2.7, 3.5, 3.6, 3.7 and 3.8.
For a more complete view of Azure libraries, see the [Github repo](https://github.com/Azure/azure-sdk-for-python/)

# Usage

For code examples, see [Network Management](https://docs.microsoft.com/python/api/overview/azure/network) on docs.microsoft.com.

# Provide Feedback

If you encounter any bugs or have suggestions, please file an issue in the [Issues](https://github.com/Azure/azure-sdk-for-python/issues) section of the project.

![Impressions](https://azure-sdk-impressions.azurewebsites.net/api/impressions/azure-sdk-for-python%2Fazure-mgmt-network%2FREADME.png)

# Release History

## 10.2.0 (2020-04-10)

**Features**

- Model VpnConnection has a new parameter routing_configuration
- Model NatRuleCondition has a new parameter terminate_tls
- Model HubVirtualNetworkConnection has a new parameter routing_configuration
- Model ExpressRouteConnection has a new parameter routing_configuration
- Model FirewallPolicy has a new parameter transport_security
- Model FirewallPolicy has a new parameter identity
- Model FirewallPolicy has a new parameter threat_intel_whitelist
- Model ApplicationRuleCondition has a new parameter target_urls
- Model P2SConnectionConfiguration has a new parameter routing_configuration
- Model BackendAddressPool has a new parameter load_balancer_backend_addresses
- Added operation LoadBalancerBackendAddressPoolsOperations.create_or_update
- Added operation LoadBalancerBackendAddressPoolsOperations.delete
- Added operation group HubRouteTablesOperations

## 10.1.0 (2020-04-10)

**Features**

- Model VpnConnection has a new parameter dpd_timeout_seconds
- Model FirewallPolicy has a new parameter intrusion_system_mode
- Model Subnet has a new parameter ip_allocations
- Model ApplicationGateway has a new parameter force_firewall_policy_association
- Model PrivateEndpoint has a new parameter custom_dns_configs
- Model VirtualNetworkGatewayConnection has a new parameter dpd_timeout_seconds
- Model VpnClientConfiguration has a new parameter radius_servers
- Model VirtualNetwork has a new parameter ip_allocations
- Model VirtualHub has a new parameter security_partner_provider
- Model VpnServerConfiguration has a new parameter radius_servers
- Added operation group PrivateDnsZoneGroupsOperations
- Added operation group SecurityPartnerProvidersOperations
- Added operation group IpAllocationsOperations

## 10.0.0 (2020-03-31)

**Features**

- Model VirtualNetworkGatewayConnection has a new parameter use_local_azure_ip_address
- Model NetworkRuleCondition has a new parameter source_ip_groups
- Model NetworkRuleCondition has a new parameter destination_ip_groups
- Model VirtualNetworkGatewayIPConfiguration has a new parameter private_ip_address
- Model BgpSettings has a new parameter bgp_peering_addresses
- Model ExpressRouteCircuitConnection has a new parameter ipv6_circuit_connection_config
- Model ApplicationGatewayHttpListener has a new parameter host_names
- Model ApplicationRuleCondition has a new parameter source_ip_groups
- Model VirtualNetworkGateway has a new parameter enable_private_ip_address
- Model LocalNetworkGateway has a new parameter fqdn
- Model VpnSiteLink has a new parameter fqdn
- Model NetworkSecurityGroup has a new parameter flow_logs
- Added operation NetworkManagementClientOperationsMixin.put_bastion_shareable_link
- Added operation NetworkManagementClientOperationsMixin.get_bastion_shareable_link
- Added operation NetworkManagementClientOperationsMixIn.delete_bastion_shareable_link
- Added operation NetworkManagementClientOperationsMixIn.disconnect_active_sessions
- Added operation NetworkManagementClientOperationsMixIn.get_active_sessions
- Added operation group NetworkVirtualAppliancesOperations

**Breaking changes**

- Model ApplicationGatewayHttpListener no longer has parameter hostnames

## 9.0.0 (2020-01-17)

**Features**

- Model AzureFirewall has a new parameter ip_groups
- Model AzureFirewall has a new parameter management_ip_configuration
- Model ConnectionMonitorResult has a new parameter endpoints
- Model ConnectionMonitorResult has a new parameter connection_monitor_type
- Model ConnectionMonitorResult has a new parameter test_configurations
- Model ConnectionMonitorResult has a new parameter test_groups
- Model ConnectionMonitorResult has a new parameter outputs
- Model ConnectionMonitorResult has a new parameter notes
- Model AzureFirewallIPConfiguration has a new parameter type
- Model ConnectionMonitor has a new parameter endpoints
- Model ConnectionMonitor has a new parameter test_configurations
- Model ConnectionMonitor has a new parameter test_groups
- Model ConnectionMonitor has a new parameter outputs
- Model ConnectionMonitor has a new parameter notes
- Model DdosSettings has a new parameter protected_ip
- Model ApplicationGatewayRewriteRuleActionSet has a new parameter url_configuration
- Added operation P2sVpnGatewaysOperations.disconnect_p2s_vpn_connections
- Added operation VirtualNetworkGatewaysOperations.disconnect_virtual_network_gateway_vpn_connections
- Added operation group FlowLogsOperations

**Breaking changes**

- Operation ExpressRouteCircuitAuthorizationsOperations.create_or_update has a new signature
- Model ConnectionMonitorParameters has a new signature

## 8.0.0 (2019-11-12)
**Features**

- Model PrivateLinkServiceConnectionState has a new parameter actions_required
- Model ConnectivityParameters has a new parameter preferred_ip_version

**Breaking changes**

- Model PrivateLinkServiceConnectionState no longer has parameter action_required

## 7.0.0 (2019-10-22)

**Features**

- Model ApplicationGatewayHttpListener has a new parameter hostnames
- Model ApplicationGatewayHttpListener has a new parameter firewall_policy
- Model ApplicationGatewayPathRule has a new parameter firewall_policy
- Model P2SVpnGateway has a new parameter p2_sconnection_configurations
- Model VpnServerConfiguration has a new parameter vpn_client_root_certificates
- Model VpnServerConfiguration has a new parameter radius_server_root_certificates
- Model VpnServerConfiguration has a new parameter radius_client_root_certificates
- Model VpnServerConfiguration has a new parameter vpn_client_revoked_certificates
- Model ExpressRouteConnection has a new parameter enable_internet_security
- Model AzureFirewallApplicationRule has a new parameter source_ip_groups
- Model WebApplicationFirewallPolicy has a new parameter path_based_rules
- Model WebApplicationFirewallPolicy has a new parameter http_listeners
- Model PrivateLinkService has a new parameter enable_proxy_protocol
- Model AzureFirewallNetworkRule has a new parameter destination_ip_groups
- Model AzureFirewallNetworkRule has a new parameter source_ip_groups
- Model AzureFirewallNetworkRule has a new parameter destination_fqdns
- Model VirtualWAN has a new parameter virtual_wan_type
- Model VirtualHub has a new parameter sku
- Model VirtualHub has a new parameter virtual_hub_route_table_v2s
- Model AzureFirewallNatRule has a new parameter translated_fqdn
- Model AzureFirewallNatRule has a new parameter source_ip_groups
- Model PrivateEndpointConnection has a new parameter link_identifier
- Model AzureFirewall has a new parameter additional_properties
- Added operation RouteFiltersOperations.update_tags
- Added operation ServiceEndpointPoliciesOperations.update_tags
- Added operation
  PrivateLinkServicesOperations.get_private_endpoint_connection
- Added operation
  PrivateLinkServicesOperations.list_private_endpoint_connections
- Added operation group VirtualHubRouteTableV2sOperations
- Added operation group IpGroupsOperations

**Breaking changes**

- Operation AzureFirewallsOperations.update_tags has a new signature
- Operation
  ExpressRouteCircuitAuthorizationsOperations.create_or_update has a new signature
- Model P2SVpnGateway no longer has parameter
  p2s_connection_configurations
- Model VpnServerConfiguration no longer has parameter
  vpn_server_config_vpn_client_root_certificates
- Model VpnServerConfiguration no longer has parameter
  vpn_server_config_radius_client_root_certificates
- Model VpnServerConfiguration no longer has parameter
  vpn_server_config_vpn_client_revoked_certificates
- Model VpnServerConfiguration no longer has parameter
  vpn_server_config_radius_server_root_certificates
- Removed operation RouteFiltersOperations.update
- Removed operation VirtualRoutersOperations.update
- Removed operation RouteFilterRulesOperations.update
- Removed operation VirtualRouterPeeringsOperations.update
- Removed operation FirewallPoliciesOperations.update_tags
- Removed operation ServiceEndpointPoliciesOperations.update

## 6.0.0 (2019-10-09)

**Features**

- Model VirtualNetwork has a new parameter bgp_communities
- Model VirtualHub has a new parameter azure_firewall
- Model VirtualHub has a new parameter security_provider_name
- Model P2SVpnGateway has a new parameter
  p2s_connection_configurations
- Model P2SVpnGateway has a new parameter vpn_server_configuration
- Model AzureFirewall has a new parameter sku
- Model VirtualNetworkGateway has a new parameter
  inbound_dns_forwarding_endpoint
- Model VirtualNetworkGateway has a new parameter
  enable_dns_forwarding
- Added operation
  P2sVpnGatewaysOperations.get_p2s_vpn_connection_health_detailed
- Added operation
  NetworkManagementClientOperationsMixin.generatevirtualwanvpserverconfigurationvpnprofile
- Added operation group VpnServerConfigurationsOperations
- Added operation group
  VpnServerConfigurationsAssociatedWithVirtualWanOperations
- Added operation group AvailableServiceAliasesOperations

**Breaking changes**

- Model WebApplicationFirewallPolicy has a new required parameter
  managed_rules
- Model P2SVpnGateway no longer has parameter
  vpn_client_address_pool
- Model P2SVpnGateway no longer has parameter custom_routes
- Model P2SVpnGateway no longer has parameter
  p2_svpn_server_configuration
- Model VirtualWAN no longer has parameter security_provider_name
- Model VirtualWAN no longer has parameter
  p2_svpn_server_configurations
- Model PolicySettings has a new signature

## 5.1.0 (2019-10-03)

**Features**

- Model VirtualNetworkGateway has a new parameter
  vpn_gateway_generation
- Model ExpressRoutePort has a new parameter identity
- Model VirtualNetworkGatewayConnection has a new parameter
  traffic_selector_policies
- Model ExpressRouteLink has a new parameter mac_sec_config
- Model VirtualNetworkGatewayConnectionListEntity has a new parameter
  traffic_selector_policies
- Model NetworkInterfaceIPConfiguration has a new parameter
  private_link_connection_properties
- Model ApplicationGatewayRequestRoutingRule has a new parameter
  priority
- Added operation
  VirtualNetworkGatewayConnectionsOperations.stop_packet_capture
- Added operation
  VirtualNetworkGatewayConnectionsOperations.start_packet_capture
- Added operation ConnectionMonitorsOperations.update_tags
- Added operation
  VirtualNetworkGatewaysOperations.stop_packet_capture
- Added operation
  VirtualNetworkGatewaysOperations.start_packet_capture
- Added operation group VirtualRoutersOperations
- Added operation group VirtualRouterPeeringsOperations

## 5.0.0 (2019-08-27)

**Features**

- Model PrivateLinkServiceIpConfiguration has a new parameter primary
- Model PrivateLinkServiceIpConfiguration has a new parameter etag
- Model PrivateLinkServiceIpConfiguration has a new parameter type
- Model PrivateLinkServiceIpConfiguration has a new parameter id
- Model AzureFirewall has a new parameter virtual_hub
- Model AzureFirewall has a new parameter hub_ip_addresses
- Model AzureFirewall has a new parameter firewall_policy
- Model PrivateLinkServiceConnection has a new parameter provisioning_state
- Model PrivateLinkServiceConnection has a new parameter etag
- Model PrivateLinkServiceConnection has a new parameter type
- Model PublicIPPrefix has a new parameter load_balancer_frontend_ip_configuration
- Model ApplicationGatewayOnDemandProbe has a new parameter backend_address_pool
- Model ApplicationGatewayOnDemandProbe has a new parameter backend_http_settings
- Model PrivateEndpointConnection has a new parameter provisioning_state
- Model PrivateEndpointConnection has a new parameter etag
- Model PrivateEndpointConnection has a new parameter type
- Added operation SubnetsOperations.unprepare_network_policies
- Added operation group FirewallPolicyRuleGroupsOperations
- Added operation group FirewallPoliciesOperations

**Breaking changes**

- Model PrivateLinkServiceIpConfiguration no longer has parameter public_ip_address
- Model ApplicationGatewayOnDemandProbe no longer has parameter backend_pool_name
- Model ApplicationGatewayOnDemandProbe no longer has parameter backend_http_setting_name

## 4.0.0 (2019-07-19)

**Features**
- Model Subnet has a new parameter
  `private_link_service_network_policies`
- Model Subnet has a new parameter
  `private_endpoint_network_policies`
- Model VpnSite has a new parameter `vpn_site_links`
- Model LoadBalancingRule has a new parameter `outbound_rules`
- Model BackendAddressPool has a new parameter `outbound_rules`
- Model InboundNatPool has a new parameter `type`
- Model OutboundRule has a new parameter `type`
- Model InboundNatRule has a new parameter `type`
- Model Probe has a new parameter `type`
- Model FrontendIPConfiguration has a new parameter
  `private_ip_address_version`
- Model FrontendIPConfiguration has a new parameter `type`
- Model AvailablePrivateEndpointType has a new parameter `name`
- Model AvailablePrivateEndpointType has a new parameter `resource_name`
- Model VpnConnection has a new parameter `vpn_link_connections`
- Added operation `AvailablePrivateEndpointTypesOperations.list_by_resource_group`
- Added operation `AzureFirewallsOperations.update_tags`
- Added operation `PrivateLinkServicesOperations.check_private_link_service_visibility_by_resource_group`
- Added operation `PrivateLinkServicesOperations.list_auto_approved_private_link_services`
- Added operation `PrivateLinkServicesOperations.check_private_link_service_visibility`
- Added operation `PrivateLinkServicesOperations.list_auto_approved_private_link_services_by_resource_group`
- Added operation group `VpnLinkConnectionsOperations`
- Added operation group `VpnSiteLinkConnectionsOperations`
- Added operation group `VpnSiteLinksOperations`

**Breaking changes**

- Operation `SubnetsOperations.prepare_network_policies` has a new signature
- Model `PrepareNetworkPoliciesRequest` no longer has parameter `resource_group_name`
- Model `AvailablePrivateEndpointType` no longer has parameter `service_name`
- Removed operation group `AvailableResourceGroupPrivateEndpointTypesOperations`

## 3.0.0 (2019-05-24)
**Features**

- Model NetworkInterface has a new parameter `private_endpoint`
- Model ServiceAssociationLink has a new parameter `type`
- Model ServiceAssociationLink has a new parameter `allow_delete`
- Model ServiceAssociationLink has a new parameter `locations`
- Model Subnet has a new parameter `private_endpoints`
- Model PatchRouteFilter has a new parameter `ipv6_peerings`
- Model ExpressRouteCircuitPeering has a new parameter `type`
- Model ApplicationGatewayProbe has a new parameter `port`
- Model RouteFilter has a new parameter `ipv6_peerings`
- Model ExpressRouteCircuitAuthorization has a new parameter `type`
- Model PeerExpressRouteCircuitConnection has a new parameter `type`
- Model AzureFirewall has a new parameter `zones`
- Model ResourceNavigationLink has a new parameter `type`
- Model ExpressRouteCircuitConnection has a new parameter `type`
- Model VpnConnection has a new parameter `use_policy_based_traffic_selectors`
- Model NatGateway has a new parameter `zones`
- Model VpnClientConfiguration has a new parameter `aad_audience`
- Model VpnClientConfiguration has a new parameter `aad_issuer`
- Model VpnClientConfiguration has a new parameter `aad_tenant`
- Added operation `VirtualNetworkGatewaysOperations.get_vpnclient_connection_health`
- Added operation `P2sVpnGatewaysOperations.get_p2s_vpn_connection_health`
- Added operation `VpnGatewaysOperations.reset`
- Added operation group `BastionHostsOperations`
- Added operation group `NetworkManagementClientOperationsMixin`
- Added operation group `PrivateLinkServicesOperations`
- Added operation group `AvailableResourceGroupPrivateEndpointTypesOperations`
- Added operation group `ServiceAssociationLinksOperations`
- Added operation group `ResourceNavigationLinksOperations`
- Added operation group `ServiceTagsOperations`
- Added operation group `PrivateEndpointsOperations`
- Added operation group `AvailablePrivateEndpointTypesOperations`

**Breaking changes**

- Model NetworkInterface no longer has parameter `interface_endpoint`
- Model Subnet no longer has parameter `interface_endpoints`
- Removed operation group `InterfaceEndpointsOperations`

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes if you were importing from the v20xx_yy_zz
API folders. In summary, some modules were incorrectly visible/importable and have been renamed. This fixed several issues caused by usage of classes that were not supposed to be used in the first place.

- NetworkManagementClient cannot be imported from `azure.mgmt.network.v20xx_yy_zz.network_management_client` anymore (import from `azure.mgmt.network.v20xx_yy_zz` works like before)
- NetworkManagementClientConfiguration import has been moved from `azure.mgmt.network.v20xx_yy_zz.network_management_client` to `azure.mgmt.network.v20xx_yy_zz`
- A model `MyClass` from a "models" sub-module cannot be imported anymore using `azure.mgmt.network.v20xx_yy_zz.models.my_class` (import from `azure.mgmt.network.v20xx_yy_zz.models` works like before)
- An operation class `MyClassOperations` from an `operations` sub-module cannot be imported anymore using `azure.mgmt.network.v20xx_yy_zz.operations.my_class_operations` (import from `azure.mgmt.network.v20xx_yy_zz.operations` works like before)

Last but not least, HTTP connection pooling is now enabled by default. You should always use a client as a context manager, or call close(), or use no more than one client per process.

## 2.7.0 (2019-04-25)

**Features**

- Model P2SVpnGateway has a new parameter `custom_routes`
- Model Subnet has a new parameter `nat_gateway`
- Model VpnConnection has a new parameter `use_local_azure_ip_address`
- Model EffectiveRoute has a new parameter `disable_bgp_route_propagation`
- Model VirtualNetworkGateway has a new parameter `custom_routes`
- Added operation `ApplicationGatewaysOperations.backend_health_on_demand`
- Added operation `DdosProtectionPlansOperations.update_tags`
- Added operation group `NatGatewaysOperations`

**Bug fixes and preview API updates**

- Parameter `output_blob_sas_url` of model `GetVpnSitesConfigurationRequest` is now required
- Operation `VpnSitesConfigurationOperations.download` has a new signature
- Model ExpressRouteCircuit no longer has parameter
  allow_global_reach

## 2.6.0 (2019-03-21)

**Features**

- Model ApplicationGateway has a new parameter firewall_policy
- Model ApplicationGatewayBackendHealthServer has a new parameter
  health_probe_log
- Model ExpressRouteCircuitPeering has a new parameter
  peered_connections
- Model ExpressRouteCircuit has a new parameter global_reach_enabled
- Added operation group PeerExpressRouteCircuitConnectionsOperations
- Added operation group WebApplicationFirewallPoliciesOperations

**Bugfixes**

- Fix incorrect operation
  ApplicationGatewaysOperations.list_available_request_headers
- Fix incorrect operation
  ApplicationGatewaysOperations.list_available_server_variables
- Fix incorrect operation
  ApplicationGatewaysOperations.list_available_response_headers

## 2.6.0rc1 (2019-02-15)

**Features**

- Model AzureFirewall has a new parameter threat_intel_mode
- Model ApplicationGatewayRewriteRule has a new parameter
  conditions
- Model ApplicationGatewayRewriteRule has a new parameter
  rule_sequence
- Model ApplicationGatewayAutoscaleConfiguration has a new parameter
  max_capacity
- Added operation SubnetsOperations.prepare_network_policies

## 2.5.1 (2019-01-15)

**Features**

- Add missing ddos_custom_policies operations

## 2.5.0 (2019-01-04)

**Features**

- Model PublicIPAddress has a new parameter ddos_settings
- Added operation
  ApplicationGatewaysOperations.list_available_request_headers
- Added operation
  ApplicationGatewaysOperations.list_available_server_variables
- Added operation
  ApplicationGatewaysOperations.list_available_response_headers
- Added operation ApplicationSecurityGroupsOperations.update_tags

## 2.4.0 (2018-11-27)

**Features**

- Model ApplicationGatewaySslCertificate has a new parameter
  key_vault_secret_id
- Model ApplicationGatewayRequestRoutingRule has a new parameter
  rewrite_rule_set
- Model FlowLogInformation has a new parameter format
- Model ApplicationGateway has a new parameter identity
- Model ApplicationGateway has a new parameter rewrite_rule_sets
- Model TrafficAnalyticsConfigurationProperties has a new parameter
  traffic_analytics_interval
- Model ApplicationGatewayPathRule has a new parameter
  rewrite_rule_set
- Model ApplicationGatewayUrlPathMap has a new parameter
  default_rewrite_rule_set

**Breaking changes**

- Model ApplicationGatewayTrustedRootCertificate no longer has
  parameter keyvault_secret_id (replaced by key_vault_secret_id)

## 2.3.0 (2018-11-07)

**Features**

- Model ApplicationGatewayWebApplicationFirewallConfiguration has a
  new parameter exclusions
- Model ApplicationGatewayWebApplicationFirewallConfiguration has a
  new parameter file_upload_limit_in_mb
- Model ApplicationGatewayWebApplicationFirewallConfiguration has a
  new parameter max_request_body_size_in_kb
- Model ApplicationGatewayHttpListener has a new parameter
  custom_error_configurations
- Model ExpressRouteCircuit has a new parameter bandwidth_in_gbps
- Model ExpressRouteCircuit has a new parameter stag
- Model ExpressRouteCircuit has a new parameter express_route_port
- Model EvaluatedNetworkSecurityGroup has a new parameter applied_to
- Model NetworkConfigurationDiagnosticResult has a new parameter
- Model ApplicationGateway has a new parameter custom_error_configurations
- Added operation group LoadBalancerOutboundRulesOperations
- Added operation group ExpressRouteLinksOperations
- Added operation group ExpressRoutePortsOperations
- Added operation group ExpressRoutePortsLocationsOperations

**Breaking changes**

- Model NetworkConfigurationDiagnosticResult no longer has parameter traffic_query
- Operation NetworkWatchersOperations.get_network_configuration_diagnostic has a new signature (no longer takes target_resource_id, queries, but a NetworkConfigurationDiagnosticParameters instance)

## 2.2.1 (2018-09-14)

**Bugfixes**

- Fix unexpected exception with network_profiles.delete

## 2.2.0 (2018-09-11)

Default API version is now 2018-08-01

**Features**

- Model AzureFirewall has a new parameter nat_rule_collections
- Model VirtualHub has a new parameter route_table
- Model VirtualHub has a new parameter virtual_network_connections
- Model VirtualHub has a new parameter p2_svpn_gateway
- Model VirtualHub has a new parameter express_route_gateway
- Model VirtualHub has a new parameter vpn_gateway
- Model VirtualWAN has a new parameter allow_vnet_to_vnet_traffic
- Model VirtualWAN has a new parameter p2_svpn_server_configurations
- Model VirtualWAN has a new parameter office365_local_breakout_category
- Model VirtualWAN has a new parameter allow_branch_to_branch_traffic
- Model VirtualWAN has a new parameter security_provider_name
- Model VpnSite has a new parameter is_security_site
- Model VpnConnection has a new parameter connection_bandwidth
- Model VpnConnection has a new parameter enable_internet_security
- Model VpnConnection has a new parameter vpn_connection_protocol_type
- Model VpnConnection has a new parameter enable_rate_limiting
- Model ServiceEndpointPolicy has a new parameter subnets
- Model AzureFirewallApplicationRule has a new parameter fqdn_tags
- Model AzureFirewallApplicationRule has a new parameter target_fqdns
- Model VpnGateway has a new parameter vpn_gateway_scale_unit
- Model ApplicationGatewayBackendHttpSettings has a new parameter trusted_root_certificates
- Model VirtualNetworkGatewayConnection has a new parameter connection_protocol
- Model ExpressRouteCircuitPeering has a new parameter express_route_connection
- Model Subnet has a new parameter delegations
- Model Subnet has a new parameter address_prefixes
- Model Subnet has a new parameter ip_configuration_profiles
- Model Subnet has a new parameter service_association_links
- Model Subnet has a new parameter interface_endpoints
- Model Subnet has a new parameter purpose
- Model ApplicationGateway has a new parameter trusted_root_certificates
- Model NetworkInterface has a new parameter tap_configurations
- Model NetworkInterface has a new parameter hosted_workloads
- Model NetworkInterface has a new parameter interface_endpoint
- Model VirtualNetworkGatewayConnectionListEntity has a new parameter connection_protocol
- Model HubVirtualNetworkConnection has a new parameter enable_internet_security
- Model NetworkInterfaceIPConfiguration has a new parameter virtual_network_taps
- Added operation
  VirtualNetworkGatewaysOperations.reset_vpn_client_shared_key
- Added operation group ExpressRouteConnectionsOperations
- Added operation group AzureFirewallFqdnTagsOperations
- Added operation group VirtualNetworkTapsOperations
- Added operation group NetworkProfilesOperations
- Added operation group P2sVpnServerConfigurationsOperations
- Added operation group AvailableDelegationsOperations
- Added operation group InterfaceEndpointsOperations
- Added operation group P2sVpnGatewaysOperations
- Added operation group AvailableResourceGroupDelegationsOperations
- Added operation group ExpressRouteGatewaysOperations
- Added operation group NetworkInterfaceTapConfigurationsOperations

**Breaking changes**

- Model VirtualHub no longer has parameter hub_virtual_network_connections
- Model VpnConnection no longer has parameter connection_bandwidth_in_mbps
- Model AzureFirewallApplicationRule no longer has parameter target_urls
- Model VpnGateway no longer has parameter policies
- Model AzureFirewallIPConfiguration no longer has parameter internal_public_ip_address
- Model ApplicationGatewayAutoscaleConfiguration has a new signature
- Renamed virtual_wa_ns to virtual_wans

## 2.1.0 (2018-08-28)

Default API version is now 2018-07-01

**Features**

- Model ExpressRouteCircuit has a new parameter allow_global_reach
- Model PublicIPAddress has a new parameter public_ip_prefix
- Model BackendAddressPool has a new parameter outbound_rule (replaces outbound_nat_rule)
- Model FrontendIPConfiguration has a new parameter outbound_rules (replaces outbound_nat_rule)
- Model FrontendIPConfiguration has a new parameter public_ip_prefix
- Model LoadBalancingRule has a new parameter enable_tcp_reset
- Model VirtualNetworkGatewayConnectionListEntity has a new parameter express_route_gateway_bypass
- Model VirtualNetworkGatewayConnection has a new parameter express_route_gateway_bypass
- Model Subnet has a new parameter service_endpoint_policies
- Model InboundNatPool has a new parameter enable_tcp_reset
- Model LoadBalancer has a new parameter outbound_rules (replaces outbound_nat_rule)
- Model InboundNatRule has a new parameter enable_tcp_reset
- Added operation group ServiceEndpointPolicyDefinitionsOperations
- Added operation group ServiceEndpointPoliciesOperations
- Added operation group PublicIPPrefixesOperations

**Breaking changes**

- Model BackendAddressPool no longer has parameter outbound_nat_rule (now outbound_rules)
- Model FrontendIPConfiguration no longer has parameter outbound_nat_rules (now outbound_rules)
- Model LoadBalancer no longer has parameter outbound_nat_rules (now outbound_rules)

## 2.0.1 (2018-08-07)

**Bugfixes**
- Fix packet_captures.get_status empty output

## 2.0.0 (2018-07-27)

**Features**

- Supports now 2018-06-01 and 2018-04-01. 2018-06-01 is the new default.
- Client class can be used as a context manager to keep the underlying HTTP session open for performance

**Features starting 2018-04-01**

- Model FlowLogInformation has a new parameter flow_analytics_configuration
- Model ApplicationGateway has a new parameter enable_fips
- Model ApplicationGateway has a new parameter autoscale_configuration
- Model ApplicationGateway has a new parameter zones
- Model ConnectionSharedKey has a new parameter id
- Added operation group HubVirtualNetworkConnectionsOperations
- Added operation group AzureFirewallsOperations
- Added operation group VirtualHubsOperations
- Added operation group VpnGatewaysOperations
- Added operation group VpnSitesOperations
- Added operation group VirtualWANsOperations
- Added operation group VpnSitesConfigurationOperations
- Added operation group VpnConnectionsOperations

**Breaking changes starting 2018-04-01**

- Operation VirtualNetworkGatewayConnectionsOperations.set_shared_key has a new parameter "id"
- Operation DdosProtectionPlansOperations.create_or_update parameter "parameters" has been flattened to "tags/location"

**Breaking changes starting 2018-06-01**

- The new class VpnConnection introduced in 2018-04-01 renamed "connection_bandwidth" to "connection_bandwidth_in_mbps"

## 2.0.0rc3 (2018-06-14)

**Bugfixes**

- API version 2018-02-01 enum Probe now supports HTTPS (standard SKU load balancer)
- API version 2015-06-15 adding missing "primary" in NetworkInterfaceIPConfiguration

## 2.0.0rc2 (2018-04-03)

**Features**

- All clients now support Azure profiles.
- API version 2018-02-01 is now the default
- Express Route Circuit Connection (considered preview)
- Express Route Provider APIs
- GetTopologyOperation supports query parameter
- Feature work for setting Custom IPsec/IKE policy for Virtual Network Gateway point-to-site clients
- DDoS Protection Plans

## 2.0.0rc1 (2018-03-07)

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes.

- Model signatures now use only keyword-argument syntax. All positional arguments must be re-written as keyword-arguments. To keep auto-completion in most cases, models are now generated for Python 2 and Python 3. Python 3 uses the "**" syntax for keyword-only arguments.
- Enum types now use the "str" mixin (class AzureEnum(str, Enum)) to improve the behavior when unrecognized enum values are encountered. While this is not a breaking change, the distinctions are important, and are documented here: <https://docs.python.org/3/library/enum.html#others> At a glance:
  - "is" should not be used at all.
  - "format" will return the string value, where "%s" string formatting will return `NameOfEnum.stringvalue`. Format syntax should be preferred.
- New Long Running Operation:
  - Return type changes from `msrestazure.azure_operation.AzureOperationPoller` to `msrest.polling.LROPoller`. External API is the same.
  - Return type is now **always** a `msrest.polling.LROPoller`, regardless of the optional parameters used.
- The behavior has changed when using `raw=True`. Instead of returning the initial call result as `ClientRawResponse`, without polling, now this returns an LROPoller. After polling, the final resource will be returned as a `ClientRawResponse`.
- New `polling` parameter. The default behavior is
`Polling=True` which will poll using ARM algorithm. When `Polling=False`, the response of the initial call will be returned without polling.
- `polling` parameter accepts instances of subclasses of `msrest.polling.PollingMethod`.
- `add_done_callback` will no longer raise if called after polling is finished, but will instead execute the callback right away.

**Network Breaking changes**
- Operation `network_watcher.get_topology` changed method signature

**Features**
- Add `ConnectionMonitor` operation group (2017-10/11-01)
- Add `target_virtual_network / target_subnet` to `topology_parameter` (2017-10/11-01)
- Add `idle_timeout_in_minutes / enable_floating_ip` to `inbound_nat_pool` (2017-11-01)

**Bugfixes**
- Fix `peer_asn` validation rules (2017-10/11-01)

### 1.7.1 (2017-12-20)

**Bugfixes**

Fix `SecurityRule` constructor parameters order to respect the one used until 1.5.0. This indeed introduces a breaking change for users of 1.6.0 and 1.7.0, but this constructor signature change was not expected, and following semantic versionning all 1.x versions should follow the same signature.

This fixes third party library, like Ansible, that expects (for excellent reasons) this SDK to follow strictly semantic versionning with regards to breaking changes and have their dependency system asking for `>=1.0;<2.0`

### 1.7.0 (2017-12-14)

**Features**

- Add `iptag`. IpTag is way to restrict the range of IPaddresses to be allocated.
- Default API version is now 2017-11-01
**Bug fixes**

- Added valid ASN range in ExpressRouteCircuitPeering (#1672)

## 1.6.0 (2017-11-28)

**Bug fixes**

- Accept space in location for "usage" (i.e. "west us").
- sourceAddressPrefix, sourceAddressPrefixes and
sourceApplicationSecurityGroups are mutually exclusive and one only
is needed, meaning none of them is required by itself. Thus,
sourceAddressPrefix is not required anymore.
- destinationAddressPrefix, destinationAddressPrefixes and
destinationApplicationSecurityGroups are mutually exclusive and one
only is needed, meaning none of them is required by itself. Thus,
destinationAddressPrefix is not required anymore.
- Client now accept unicode string as a valid subscription_id
  parameter
- Restore missing azure.mgmt.network.__version__

**Features**

- Client now accept a "profile" parameter to define API version per
  operation group.
- Add update_tags to most of the resources
- Add operations group to list all available rest API operations
- NetworkInterfaces_ListVirtualMachineScaleSetIpConfigurations
- NetworkInterfaces_GetVirtualMachineScaleSetIpConfiguration

## 1.5.0 (2017-09-26)

**Features**

- Availability Zones
- Add network_watchers.get_azure_reachability_report
- Add network_watchers.list_available_providers
- Add virtual_network_gateways.supported_vpn_devices
- Add virtual_network_gateways.vpn_device_configuration_script

## 1.5.0rc1 (2017-09-18)

**Features**

- Add ApiVersion 2017-09-01 (new default)
- Add application_security_groups (ASG) operations group
- Add ASG to network_interface operations
- Add ASG to IP operations
- Add source/destination ASGs to network security rules
- Add DDOS protection and VM protection to vnet operations

**Bug fix**

- check_dns_name_availability now correctly defines "domain_name_label" as required and not optional

## 1.4.0 (2017-08-23)

**Features**

- Add ApiVersion 2017-08-01 (new default)
- Added in both 2017-08-01 and 2017-06-01:
  - virtual_network_gateways.list_connections method
  - default_security_rules operations group
  - inbound_nat_rules operations group
  - load_balancer_backend_address_pools operations group
  - load_balancer_frontend_ip_configurations operations group
  - load_balancer_load_balancing_rules operations group
  - load_balancer_network_interfaces operations group
  - load_balancer_probes operations group
  - network_interface_ip_configurations operations group
  - network_interface_load_balancers operations group
  - EffectiveNetworkSecurityGroup.tag_map attribute
  - EffectiveNetworkSecurityRule.source_port_ranges attribute
  - EffectiveNetworkSecurityRule.destination_port_ranges attribute
  - EffectiveNetworkSecurityRule.source_address_prefixes attribute
  - EffectiveNetworkSecurityRule.destination_address_prefixes attribute
- Added in 2017-08-01 only
  - PublicIPAddress.sku
  - LoadBalancer.sku

**Changes on preview**

> "available_private_access_services" is renamed
> "available_endpoint_services"
> "radius_secret" parsing fix (was unable to work in 1.3.0)

## 1.3.0 (2017-07-10)

**Preview features**
- Adding "available_private_access_services" operation group (preview)
- Adding "radius_secret" in Virtual Network Gateway (preview)

**Bug Fixes**

- VMSS Network ApiVersion fix in 2017-06-01 (point to 2017-03-30)

## 1.2.0 (2017-07-03)

**Features**

Adding the following features to both 2017-03-01 and 2017-06-01:

- express route ipv6
- VMSS Network (get, list, etc.)
- VMSS Public IP (get, list, etc.)

## 1.1.0 (2017-06-27)

**Features**

- Add list_usage in virtual networks (2017-03-01)
- Add ApiVersion 2017-06-01 (new default)

This new ApiVersion is for new Application Gateway features:

> - ApplicationGateway Ssl Policy custom cipher suites support [new
>   properties added to Sslpolicy Property of
>   ApplicationGatewayPropertiesFormat]
> - Get AvailableSslOptions api [new resource
>   ApplicationGatewayAvailableSslOptions and child resource
>   ApplicationGatewayPredefinedPolicy]
> - Redirection support [new child resource
>   ApplicationGatewayRedirectConfiguration for Application Gateway,
>   new properties in UrlPathMap, PathRules and RequestRoutingRule]
> - Azure Websites feature support [new properties in
>   ApplicationGatewayBackendHttpSettingsPropertiesFormat,
>   ApplicationGatewayProbePropertiesFormat, schema for property
>   ApplicationGatewayProbeHealthResponseMatch]

## 1.0.0 (2017-05-15)

- Tag 1.0.0rc3 as stable (same content)

## 1.0.0rc3 (2017-05-03)
**Features**
- Added check connectivity api to network watcher

## 1.0.0rc2 (2017-04-18)

**Features**
- Add ApiVersion 2016-12-01 and 2017-03-01
- 2017-03-01 is now default ApiVersion

**Bugfixes**
- Restore access to NetworkWatcher and PacketCapture from 2016-09-01

## 1.0.0rc1 (2017-04-11)

**Features**
To help customers with sovereign clouds (not general Azure), this version has official multi ApiVersion support for 2015-06-15 and 2016-09-01

## 0.30.1 (2017-03-27)
- Add NetworkWatcher
- Add PacketCapture
- Add new methods to Virtualk Network Gateway
  - get_bgp_peer_status
  - get_learned_routes
  - get_advertised_routes

## 0.30.0 (2016-11-01)
- Initial preview release. Based on API version 2016-09-01.

## 0.20.0 (2015-08-31)

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
1.1535 openjdk-jre 11.0.7u10
1.1535.1 Available under license:

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#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
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#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
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src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/frandom/frandom.c
#
# EOF
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#include/GL/wglxext.h :

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Version 3, 29 June 2007

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1.1559 tar 1.29b 2ubuntu0.1

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1.1560 debianutils 4.8.6.1

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1.1561 apt 1.6.12ubuntu0.1

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a library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,7):

```
raise SystemExit("Sorry, Python 2.7 or newer required")

package_data = {}
exec(open('idna/package_data.py').read(), package_data)

arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': package_data['__version__'],
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/ Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

1.1566 wildfly-clustering-marshalling-spi
19.1.0.Final

Open Source Used In SD Wan 20.7.1 17120
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1.1567 neo4j-storage-engine-api 4.1.7

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Version 3, 29 June 2007

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Eclipse Collections API
Eclipse Distribution License - v 1.0
Eclipse Public License - v 1.0

Eclipse Collections Main Library
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1.1568 python 3.8.6
1.1568.1 Available under license :

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao
```
## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \\
| sed \"s/\([^*!]\.o\):.*\)/\1.o $@ : /g\" > $@; \\
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \\
| sed \"s/\([^*!]\.o\):.*\)/\1.o $@ : /g\" > $@; \\
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
1.1570 libxau 1.0.8-1+b2

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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/MultiResponse.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/ZooKeeperServerConf.java
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jar/org/apache/zookeeper/server/ContainerManager.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/Environment.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/command/DigestCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/ObserverMaster.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/auth/KerberosName.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/NIOServerCnxn.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/QuorumZooKeeperServer.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/command/MonitorCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/common/IOUtils.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/LeaderZooKeeperServer.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/metrics/MetricsProvider.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/admin/Commands.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/metrics/MetricsContext.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/DataTreeMXBean.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/auth/QuorumAuthLearner.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/RemotePeerBean.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/BlueThrottle.java
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* /opt/cola/permits/1102648010_1603824244.11/l/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/FollowerMXBean.java
* /opt/cola/permits/1102648010_1603824244.11/l/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/audit/AuditEvent.java
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* /opt/cola/permits/1102648010_1603824244.11/l/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/FollowerBean.java
* /opt/cola/permits/1102648010_1603824244.11/l/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/auth/ProviderRegistry.java
* /opt/cola/permits/1102648010_1603824244.11/l/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/jmx/ZKMBeanInfo.java
* /opt/cola/permits/1102648010_1603824244.11/l/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/util/SerializeUtils.java
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* /opt/cola/permits/1102648010_1603824244.11/l/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/QuorumPeerMain.java
* /opt/cola/permits/1102648010_1603824244.11/l/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/ServerCnxnHelper.java
* /opt/cola/permits/1102648010_1603824244.11/l/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/admin/ZooKeeperAdmin.java
* /opt/cola/permits/1102648010_1603824244.11/l/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/sessionTrackerImpl.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/GetEphemeralsCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/GetAllChildrenNumberCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/SyncCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/GetAclCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/LsCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/VersionCommand.java

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  jar/org/apache/zookeeper/server/package.html
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* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/LinuxSocket.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/netty_epoll_linuxsocket.c
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jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-
jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-
jar/io/netty/channel/epoll/EpollTcpInfo.java
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jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-
jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-
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jar/io/netty/channel/epoll/EpollEventLoop.java

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 * Set the TCP_MD5SIG option on the socket. See [code linux/tcp.h] for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
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 * Set the TCP_QUICKACK option on the socket. See [http://linux.die.net/man/7/tcp] for more details.
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/ClassPath.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingNavigableMap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect>TypeCapture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/BinaryTreeTraverser.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/EvictingQueue.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/Constraints.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/ComparatorOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/eventbus/EventBus.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/io/Files.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/TreeMultiset.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SortedLists.java
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  */opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Preconditions.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/FilteredMultimapValues.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/annotations/GwtCompatible.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Enums.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Absent.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AbstractScheduledService.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/package-info.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/math/package-info.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SortedIterable.java
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jar/com/google/common/collect/GeneralRange.java
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jar/com/google/common/collect/RegularImmutableSortedMultiset.java
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jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/MapMakerInternalMap.java
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jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/SparseImmutableTable.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Table.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableMapKeySet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableMap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/UnmodifiableListIterator.java
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jar/com/google/common/cache/Weigher.java

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jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/io/AppendableWriter.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/CharSequenceReader.java
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jar/com/google/common/collect/ConsumingQueueIterator.java

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ci.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982e2282e2876d35f5f8d787c5cf2bf6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.1590 libjpeg 6b

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Other documentation files in the distribution are:

User documentation:
install.doc     How to configure and install the IJG software.
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*.1              Unix-style man pages for programs (same info as usage.doc).
wizard.doc      Advanced usage instructions for JPEG wizards only.
change.log      Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc     How to use the JPEG library in your own programs.
example.c       Sample code for calling the JPEG library.
structure.doc   Overview of the JPEG library's internal structure.
filelist.doc    Road map of IJG files.
coderules.doc   Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========
This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue.
handy, a PostScript file containing a revised version of Wallace's article is
available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
good explanations and example C code for a multitude of compression methods
including JPEG. It is an excellent source if you are comfortable reading C
code but don't know much about data compression in general. The book's JPEG
sample code is far from industrial-strength, but when you are ready to look
at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data
Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published
The book includes the complete text of the ISO JPEG standards (DIS 10918-1
and draft DIS 10918-2). This is by far the most complete exposition of JPEG
in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a
paper copy through ISO or ITU. (Unless you feel a need to own a certified
official copy, we recommend buying the Pennebaker and Mitchell book instead;
it's much cheaper and includes a great deal of useful explanatory material.)
In the USA, copies of the standard may be ordered from ANSI Sales at (212)
642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI
doesn't take credit card orders, but Global does.) It's not cheap: as of
1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7%
shipping/handling. The standard is divided into two parts, Part 1 being the
actual specification, while Part 2 covers compliance testing methods. Part 1
is titled "Digital Compression and Coding of Continuous-tone Still Images,
Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS
10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of
Continuous-tone Still Images, Part 2: Compliance testing" and has document

Some extensions to the original JPEG standard are defined in JPEG Part 3,
a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG
currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file
format. For the omitted details we follow the "JFIF" conventions, revision
1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.
The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.1591 popt 1.16
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1.1594 protobuf-java 2.5.21
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   Manifest-Version: 1.0
   Bnd-LastModified: 1362700108682
   Build-Jdk: 1.7.0-google-v5
   Built-By: xiaofeng
   Bundle-Description: Protocol Buffers are a way of encoding structured da
ta in an efficient yet extensible format.
Bundle-DocURL: http://code.google.com/p/protobuf
Bundle-License: http://www.opensource.org/licenses/bsd-license.php
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffer Java API
Bundle-SymbolicName: com.google.protobuf
Bundle-Vendor: Google
Bundle-Version: 2.5.0
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf;version="2.5.0"
Tool: Bnd-1.50.0

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* /opt/cola/permits/1001275955_1613473853.23/0/protobuf-java-2-5-0-jar/META-INF/MANIFEST.MF
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org.wildfly.httpclient.naming.HttpNamingContextFactory
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/HeadersUtils.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionState.java

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Utility class for ByteBuf that encodes and decodes to and from Base64 notation.

The encoding and decoding algorithm in this class has been derived from Robert Harder's Public Domain Base64 Encoder/Decoder.

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
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 */
/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * 
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 * 
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * 
 * <pre>
 * lengthFieldOffset = 0
 * lengthFieldLength = 2
 * lengthAdjustment = 0
 * initialBytesToStrip = 0 (= do not strip header)
 * 
 * BEFORE DECODE (14 bytes) | AFTER DECODE (14 bytes)
 * +----------+----------------+      +----------+----------------+
 * | Length | Actual Content |----->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
 */
Because we can get the length of the content by calling
[@link ByteBuf#readableBytes()], you might want to strip the length
field by specifying <tt>initialBytesToStrip</tt>. In this example, we
specified <tt>2</tt>, that is same with the length of the length field, to
strip the first two bytes.

* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)

* BEFORE DECODE (14 bytes)          AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+

In most cases, the length field represents the length of the message body
only, as shown in the previous examples. However, in some protocols, the
length field represents the length of the whole message, including the
message header. In such a case, we specify a non-zero
<tt>lengthAdjustment</tt>. Because the length value in this example message
is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
as <tt>lengthAdjustment</tt> for compensation.

* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0

* BEFORE DECODE (14 bytes)          AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+

In most cases, the length field represents the length of the message body
* The following message is a simple variation of the first example. An extra * header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero * again because the decoder always takes the length of the prepended data into * account during frame length calculation.

* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* This is an advanced example that shows the case where there is an extra * header between the length field and the message body. You have to specify a * positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra * header into the frame length calculation.

* <pre>
* lengthFieldOffset   = 0
* <b>lengthFieldLength</b>   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* This is an advanced example that shows the case where there is an extra * header between the length field and the message body. You have to specify a * positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra * header into the frame length calculation.

* <pre>
* lengthFieldOffset   = 0
* <b>lengthFieldLength</b>   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* This is an advanced example that shows the case where there is an extra * header between the length field and the message body. You have to specify a * positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra * header into the frame length calculation.

* <pre>
* lengthFieldOffset   = 0
* <b>lengthFieldLength</b>   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* This is a combination of all the examples above. There are the prepended * header before the length field and the extra header after the length field. * The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra * header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero * header before the length field, and the prepended header affects the `<tt>lengthAdjustment</tt>`.

* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* </pre>
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)

* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +---------------------+---------------------+      +---------------------+---------------------+
* | HDR1 | Length | HDR2 | Actual Content |----> | HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +---------------------+---------------------+      +---------------------+---------------------+

* </pre>

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN, negative)

* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +---------------------+---------------------+      +---------------------+---------------------+
* | HDR1 | Length | HDR2 | Actual Content |----> | HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +---------------------+---------------------+      +---------------------+---------------------+

* </pre>

* @see LengthFieldPrepender
*/

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* <p>
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This package was put together by Yann Dirson <dirson@debian.org>,
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB-pic_FLAG = -fpic
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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Theodore Ts'o
23-June-2007

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Gadi Oxman, August 1995

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<one line to give the program's name and a brief idea of what it does.>
1.1613 javax-json 1.0.4

1.1614 markupsafe 1.1.1

1.1614.1 Available under license:

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/**
 * markupsafe._speedups
 * ~~~~~~~~~~~~~~~~~~~~
 * C implementation of escaping for better performance. Used instead of
 * the native Python implementation when compiled.
 * :copyright: 2010 Pallets
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 */

Found in path(s):
* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-tar-gz/sailfishos-mirror-markupsafe-22c946d/src/markupsafe/_speedups.c

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Found in path(s):
* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-target/gz/sailfishos-mirror-markupsafe-22c946d/LICENSE.rst
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* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-target/gz/sailfishos-mirror-markupsafe-22c946d/src/markupsafe/_native.py
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* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-target/gz/sailfishos-mirror-markupsafe-22c946d/src/markupsafe/__init__.py
* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-target/gz/sailfishos-mirror-markupsafe-22c946d/src/markupsafe/_compat.py
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* License: `BSD-3-Clause <https://github.com/pallets/markupsafe/blob/master/LICENSE.rst>`_

Found in path(s):
* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-target/gz/sailfishos-mirror-markupsafe-22c946d/README.rst
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Found in path(s):
* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-target/gz/sailfishos-mirror-markupsafe-22c946d/setup.py

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1.1615 elasticsearch 6.8.0

1.1615.1 Available under license :

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```
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.1618 qpid-proton 0.33.2

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1.1621 systemd 241-7~deb10u4

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1.1622 go-runtime 1.14.1

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* If you are starting a new project, you can get started with the [MSAL Python docs](https://github.com/AzureAD/microsoft-authentication-library-for-python/wiki) for details about the scenarios, usage, and relevant concepts.
* If your application is using the previous ADAL Python library, you can follow this [migration guide](https://docs.microsoft.com/en-us/azure/active-directory/develop/migrate-python-adal-msal) to update to MSAL Python.
* Existing applications relying on ADAL Python will continue to work.

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# Microsoft Azure Active Directory Authentication Library (ADAL) for Python

`master` branch  | `dev` branch  | Reference Docs
------------------|--------------|-----------------

[Getting Started](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki)  
[Docs](https://aka.ms/aaddev)  
[Python Samples](https://github.com/Azure-Samples?q=active-directory&language=python)  
[Support](README.md#community-help-and-support)
The ADAL for Python library enables python applications to authenticate with Azure AD and get tokens to access Azure AD protected web resources.

You can learn in detail about ADAL Python functionality and usage documented in the [Wiki](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki).

## Installation and Usage

You can find the steps to install and basic usage of the library under [ADAL Basics](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki/ADAL-basics) page in the Wiki.

## Samples and Documentation

We provide a full suite of [Python sample applications on GitHub](https://github.com/Azure-Samples?q=active-directory&language=python) to help you get started with learning the Azure Identity system. This will include tutorials for native clients and web applications. We also provide full walkthroughs for authentication flows such as OAuth2, OpenID Connect and for calling APIs such as the Graph API.

There are also some [lightweight samples existing inside this repo](https://github.com/AzureAD/azure-activedirectory-library-for-python/tree/dev/sample).

You can find the relevant samples by scenarios listed in this [wiki page for acquiring tokens using ADAL Python](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki/Acquire-tokens#adal-python-apis-for-corresponding-flows).

The documents on [Auth Scenarios](https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-authentication-scenarios#application-types-and-scenarios) and [Auth protocols](https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-protocols-openid-connect-code) are recommended reading.

## Versions

This library follows [Semantic Versioning](https://semver.org/).

You can find the changes for each version under [Releases](https://github.com/AzureAD/azure-activedirectory-library-for-python/releases).

## Community Help and Support

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We recommend you use the "adal" tag so we can see it! Here is the latest Q&A on Stack Overflow for ADAL: [https://stackoverflow.com/questions/tagged/adal](https://stackoverflow.com/questions/tagged/adal)
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1.1627 zlib 1.2.3

1.1627.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017

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1.1628 opensaml-soap-api 3.3.0

1.1629 nettle 3.4.1-1
1.1629.1 Available under license :

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.1635 opentracing-noop 0.31.0

1.1636 ncurses 6.0+20160213-1ubuntu1
1.1636.1 Available under license:
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Version 2.1, February 1999

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.1646 libusb 1.0.21

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4.1.7

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1.1656 spring-web-mvc 5.1.17.RELEASE

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*/opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java
*/opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/tags/form/HiddenInputTag.java
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/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
*
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality, protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
*
* <p>View technologies that support this contract can obtain an instance to
* delegate to via {@link RequestContext#getRequestDataValueProcessor()}
* 
* @author Rossen Stoyanchev
* @since 3.1
*/

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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
jar/org/springframework/web/servlet/tags/form/RadioButtonsTag.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
jar/org/springframework/web/servlet/view/tiles3/AbstractSpringPreparerFactory.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
jar/org/springframework/web/servlet/tags/ParamAware.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
jar/org/springframework/web/servlet/mvc/support/RedirectAttributes.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
jar/org/springframework/web/servlet/mvc/AbstractUrlViewController.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/handler/WebRequestHandlerInterceptorAdapter.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/mvc/method/annotation/AsyncTaskMethodReturnValueHandler.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/mvc/config/annotation/EnableWebMvc.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/view/tiles3/TilesViewResolver.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistration.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMapMethodArgumentResolver.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/mvc/support/RedirectAttributesModelMap.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMethodArgumentResolver.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBodyReturnValueHandler.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/mvc/method/annotation/MethodArgumentResolverUtils.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/mvc/method/annotation/HandlerMethodArgumentResolverUtils.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ReactiveTypeHandler.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
jar/org/springframework/web/servlet/handler/HandlerExceptionResolverComposite.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
jar/org/springframework/web/servlet/mvc/method/RequestMappingInfo.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
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jar/org/springframework/web/servlet/support/AbstractFlashMapManager.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/NoHandlerFoundException.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/view/document/AbstractXlsxStreamingView.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/resource/VersionPathStrategy.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java

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*/opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdviceChain.java
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jar/org/springframework/web/servlet/tags/RequestContextAwareTag.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/mvc/annotation/ControllerAdvice.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
  jar/org/springframework/web/servlet/resource/ResourceTransformer.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
  jar/org/springframework/web/servlet/handler/MatchableHandlerMapping.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
  jar/org/springframework/web/servlet/view/ViewResolverComposite.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
  jar/org/springframework/web/servlet/view/tiles3/SpringLocaleResolver.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
  jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMappingJacksonResponseBodyAdvice.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
  jar/org/springframework/web/servlet/tags/form/PasswordInputTag.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
  jar/org/springframework/web/servlet/mvc/condition/RequestCondition.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
  jar/org/springframework/web/servlet/handler/RequestMatchResult.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-
  jar/org/springframework/web/servlet/mvc/Controller.java
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 */
/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure output properties to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */

Found in path(s):
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/view/xslt/XsltView.java
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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*
 minibz2
 libbz2.dll test program.
 by Yoshioka Tsuneo (tsuneo@rr.ii4u.or.jp)
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 usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]
 */
1.1658 xmlsec-java 2.1.4

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1.1660 libgcrypt 1.8.4 5

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Assignment for future changes terminated on 2012-12-04.
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GNUPGMatthew Skala   1998-08-10
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ANY     g10 Code GmbH   2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
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LIBGCRYPT Simon Josefsson   2002-10-25
Assigns past and future changes to FSF (cipher/[md4,crc].c, CTR mode, CTS/MAC flags, self test improvements)
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LIBGCRYPT Moritz Schulte 2003-04-17
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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
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Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mphi-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mphi-mul2.S,
mpi/hppa1.1/mphi-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
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LIBGCRYPT Werner Dittmann 2009-05-20
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(mpi/amd64, tests/mpitest.c)

GNUPG David Shaw
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(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09
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(cipher/ecc.c and related files)

LIBGCRYPT Ulrich MÅ¼ller 2012-02-15
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
the various releases.

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/core/publisher/SignalLogger.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/core/publisher/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/util/function/Tuple6.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/core/publisher/FluxWindowTimeout.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/core/publisher/FluxSkipLast.java
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reactor.core.scheduler.ReactorBlockHoundIntegration

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/core/publisher/FluxDoFirst.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/core/publisher/FluxDoFirstFuseable.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/core/publisher/MonoDoFirst.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/core/publisher/MonoDoFirstFuseable.java
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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/util/concurrent/SpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/core/publisher/EventLoopProcessor.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/core/publisher/WorkQueueProcessor.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/util/concurrent/WaitStrategy.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/core/CorePublisher.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1.jar/reactor/core/publisher/TopicProcessor.java
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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
  jar/reactor/util/annotation/NonNull.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
  jar/reactor/util/annotation/NonNullApi.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
  jar/reactor/util/annotation/Nullable.java

1.1665 jline-style 3.10.0

1.1666 wildfly-clustering-infinispan-client 19.1.0.Final

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1.1667 govmomi 0.18.0
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 */

package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type assign struct {
    *flags.ClientFlag
    *flags.OutputFlag
    *flags.HostSystemFlag
    *flags.ClusterFlag

    name   string
    remove bool
}

func init() {
    cli.Register("license.assign", &assign{ })
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
}


func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.

Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
    key := f.Arg(0)
    client, err := cmd.Client()
    if err != nil {
        return err
    }

m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
    return err
}

host, err := cmd.HostSystemIfSpecified()
if err != nil {
    return err
}

var id string

if host == nil {
    cluster, cerr := cmd.ClusterIfSpecified()
    if cerr != nil {
        return cerr
    }
    if cluster == nil {
        // Default to vCenter UUID
        id = client.ServiceContent.About.InstanceUuid
    } else {
        id = cluster.Reference().Value
    }
} else {
    id = host.Reference().Value
}

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))

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*/

package license

import {
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
}

var featureUsage = "List licenses with given feature"

type ls struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}

func init() {
    cli.Register("license.ls"); &ls{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
```
func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    result, err := m.List(ctx)
    if err != nil {
        return err
    }
    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }
    return cmd.WriteResult(licenseOutput(result))
}

package license

import (
    "context"
    "flag"
    "fmt"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"

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*/

package license

import (
    "context"
    "flag"
    "fmt"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
type add struct {
  *flags.ClientFlag
  *flags.OutputFlag
}

func init() {
  cli.Register("license.add", &add{})
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)

  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }

  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }

  return nil
}

func (cmd *add) Usage() string {
  return "KEY...
"
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
  client, err := cmd.Client()
  if err != nil {
    return err
  }

  m := license.NewManager(client)

  // From the vSphere 5.5 documentation:
  //
  // To specify the edition type and any optional functions, use
  // updateLicense for ESX Server and addLicense follow by
  // LicenseAssingmentManager.updateAssignedLicense for VirtualCenter.
  //
var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)

switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        addFunc = m.Update
    case "VirtualCenter":
        addFunc = m.Add
    default:
        return fmt.Errorf("unsupported ApiType: %s", t)
}

result := make(licenseOutput, 0)
for _, v := range f.Args() {
    license, err := addFunc(ctx, v, nil)
    if err != nil {
        return err
    }
    result = append(result, license)
}

return cmd.WriteResult(licenseOutput(result))

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package simulator

import {
    "context"
    "reflect"
    "testing"
    "github.com/vmware/govmomi"
    "github.com/vmware/govmomi/find"
    "github.com/vmware/govmomi/license"
}

func TestLicenseManagerVPX(t *testing.T) {
    ctx := context.Background()
    m := VPX()
    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    am, err := lm.AssignmentManager(ctx)
    if err != nil {
        t.Fatal(err)
    }

    la, err := am.QueryAssigned(ctx, "enoent")
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 0 {
        t.Errorf("unexpected license")
    }
}

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*/
finder := find.NewFinder(c.Client, false)
hosts, err := finder.HostSystemList(ctx, "/...")
if err != nil {
t.Fatal(err)
}

host := hosts[0].Reference().Value

for _, name := range []string{"", host, vcid} {
la, err = am.QueryAssigned(ctx, name)
if err != nil {
t.Fatal(err)
}
}

if len(la) != 1 {
t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
t.Fatal("invalid license")
}

func TestLicenseManagerESX(t *testing.T) {
ctx := context.Background()
m := ESX()

defer m.Remove()

er := m.Create()
if err != nil {
t.Fatal(err)
}

s := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
t.Fatal(err)
}

lm := license.NewManager(c.Client)
if err = lm.AssignmentManager(ctx)
if err == nil {
    t.Fatal("expected error")
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0], EvalLicense) {
    t.Fatal("invalid license")
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
    m := ESX()

    defer m.Remove()
    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()
    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    key := "00000-00000-00000-00000-11111"
    labels := map[string]string{"key": "value"}

    info, err := lm.Add(ctx, key, labels)
    if err != nil {
        t.Fatal(err)
    }

    if info.LicenseKey != key {
        t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
    }
}
if len(info.Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d",
        len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {s:s}",
        info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 2 {
    t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q",
        key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d",
        len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {s:s}",
        la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key)
if err != nil {
    t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}
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  "github.com/vmware/govmomi/vim25/methods"
  "github.com/vmware/govmomi/vim25/mo"
  "github.com/vmware/govmomi/vim25/soap"
  "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
}
m := &LicenseManager{ }
m.Self = ref
m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

if Map.IsVPX() {
am := Map.Put(&LicenseAssignmentManager{}).Reference()
m.LicenseAssignmentManager = &am
}
return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
body := &methods.AddLicenseBody{
Res: &types.AddLicenseResponse{},
}
for _, license := range m.Licenses {
if license.LicenseKey == req.LicenseKey {
body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
return body
}
}

m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
LicenseKey: req.LicenseKey,
Labels: req.Labels,
})
body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
body := &methods.RemoveLicenseBody{
Res: &types.RemoveLicenseResponse{},
}
for i, license := range m.Licenses {
if req.LicenseKey == license.LicenseKey {
m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
return body
}
}
return body
}
type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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package license

import (  
  "context"  
  "flag"

  "github.com/vmware/govmomi/govc/cli"  
  "github.com/vmware/govmomi/govc/flags"  
  "github.com/vmware/govmomi/license"
)

type decode struct {  
  *flags.ClientFlag  
  *flags.OutputFlag

  feature string
  }

func init() {  
  cli.Register("license.decode", &decode{})
  }

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {  
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)  
  cmd.ClientFlag.Register(ctx, f)

  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)  
  cmd.OutputFlag.Register(ctx, f)

  f.StringVar(&cmd.feature, "feature", ", featureUsage)
  }

func (cmd *decode) Process(ctx context.Context) error {  
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }

  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }

func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    var result license.InfoList
    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {
            return err
        }
        result = append(result, license)
    }

    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }

    return cmd.WriteResult(licenseOutput(result))
}

# People who can (and typically have) contributed to this repository.
#
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*/

package license

import {
    "context"
    "strconv"
    "strings"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/types"
}

type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }

    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }

    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m-reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }

    
}
res, err := methods.AddLicense(ctx, m.Client(), &req)
if err != nil {
    return types.LicenseManagerLicenseInfo{}, err
}

return res.Returnval, nil

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }

    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValuesSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}
func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }

    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }

    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }

    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }

    return &am, nil
}

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    f := strings.Split(feature, ":")

    lf.name = f[0]
    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }

    return lf
}
func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)

    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }

        kv, ok := p.Value.(types.KeyValue)
        if !ok {
            continue
        }

        lf := parseLicenseFeature(kv.Key)
        if lf.name == feature.name && lf.level >= feature.level {
            return true
        }
    }
    return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
}

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*/

package license

import (
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

type remove struct {
    *flags.ClientFlag
    *flags.OutputFlag
}
func init() {
cli.Register("license.remove", &remove{ })
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client() 
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }

    return nil
}

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    "context"
    "flag"
    "fmt"
    "io"
    "os"
    "text/tabwriter"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type assigned struct {
    *flags.ClientFlag
    *flags.OutputFlag

    id string
}

func init() {
    cli.Register("license.assigned.ls", &assigned{})
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    assigned, err := m.QueryAssigned(ctx, cmd.id)
    if err != nil {
        return err
    }

    return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
"
    for _, v := range res {
        fmt.Fprintf(tw, "%s",
    }
    return tw.Flush()
}

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*/
package license

import (  
"fmt"  
"io"  
"os"  
"text/tabwriter"

"github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {  
tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)  
fmt.Fprintf(tw, "Key:	Edition:	Used:	Total:
")  
for _, v := range res {  
fmt.Fprintf(tw, "%s	", v.LicenseKey)  
fmt.Fprintf(tw, "%s	", v.EditionKey)  
fmt.Fprintf(tw, "%d	", v.Used)  
fmt.Fprintf(tw, "%d	", v.Total)  
fmt.Fprintf(tw, "\n")  
}  
return tw.Flush()
}

#!/usr/bin/env bats

load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {  
if [ "$(govc license.ls -json | jq -r .[0].EditionKey)" != "eval" ]; then  
  skip "requires evaluation license"
fi
}

get_key() {  
jq ".[] | select(.LicenseKey == \"$1\")"
}

get_property() {  
jq ".Properties[].Properties[] | select(.Key == \"$1\") | .Value"
}

@test "license.add" {  
esx_env

verify_evaluation
run govc license.add -json 00000-00000-00000-00000-00000-00000-00000-00000-00000-00002
assert_success

# Expect to see an entry for both the first and the second key
assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00000-00000-00000-00000-00000-00001 <<<${output} | get_property diagnostic)"
assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00000-00000-00000-00000-00000-00002 <<<${output} | get_property diagnostic)"

@test "license.remove" {
  esx_env

  verify_evaluation

  run govc license.remove -json 00000-00000-00000-00000-00000-00000-00000-00000-00000-00001
  assert_success
}

@test "license.ls" {
vcsim_env

  verify_evaluation

  run govc license.ls -json
  assert_success

  # Expect the test instance to run in evaluation mode
  assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000-00000-00000-00000-00000-00000 <<<${output} | jq -r ".Name")"
}

@test "license.decode" {
esx_env

  verify_evaluation

  key=00000-00000-00000-00000-00000-00000
  assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

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package license

import (
type AssignmentManager struct {
    object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:     m.Reference(),
        EntityId: id,
    }

    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
        EntityId: id,
    }

    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)

    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:              m.Reference(),
        Entity:            id,
        LicenseKey:        key,
        EntityDisplayName: name,
    }

    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return res
return nil, err
}

return &res.Returnval, nil
}

1.1668 libxml 2.9.3+dfsg1 1ubuntu0.6

1.1668.1 Available under license:

This package was debianized by Vincent Renardias <vincent@waw.com> on Sat, 26 Sep 1998 16:50:54 +0200

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Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only
works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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copyrighted by the Free Software Foundation, write to the Free
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DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

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modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
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You should have received a copy of the GNU Library General Public
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

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Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decestation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.
Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.1677 u-boot 2013.07

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-- Wolfgang Denk

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That's all there is to it!

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Version 2.1, February 1999

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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1.1682 jakarta-inject-api 1.0
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* /opt/ws_local/PERMITS_SQL/1013453709_1591768808.43/0/jakarta-inject-api-1-0-sources-jar/javax/inject/Qualifier.java
* /opt/ws_local/PERMITS_SQL/1013453709_1591768808.43/0/jakarta-inject-api-1-0-sources-jar/javax/inject/Inject.java
* /opt/ws_local/PERMITS_SQL/1013453709_1591768808.43/0/jakarta-inject-api-1-0-sources-jar/javax/inject/package-info.java
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* /opt/ws_local/PERMITS_SQL/1013453709_1591768808.43/0/jakarta-inject-api-1-0-sources-jar/META-INF/maven/jakarta.inject/jakarta.inject-api/pom.xml

1.1683 wildfly-elytron-sasl-plain 1.11.4.Final

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* /opt/ws_local/PERMITS_SQL/1094802133_1601319842.56/0/wildfly-elytron-sasl-plain-1-11-4-final-sources- 
  jar/org/wildfly/security/sasl/plain/WildFlyElytronSaslPlainProvider.java

1.1684 jackson-mapper-asl 1.9.13

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1.1685 wildfly-clustering-infinispan-extension

19.1.0.Final
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1.1686 libuser 0.60 9.el7

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1.1687 wildfly-microprofile-fault-tolerance-smallrye-executor 19.1.0.Final

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The element config-property-confidential is used to specify * whether the configuration property is confidential and * property as confidential. * @param configPropertyConfidential ID of configPropertyConfidential element

public Boolean getConfigPropertyConfidential() return configPropertyConfidential; public String getConfigPropertyConfidentialId() return configPropertyConfidentialId;
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
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fields:
site: string
1.1691 pip 20.2.4

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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<thead>
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<th>Derived from</th>
<th>Year</th>
<th>Owner</th>
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org
for the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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History

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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.1716 base-files 10.3+deb10u6

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Version 3, 29 June 2007

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1.1720 iconv 2.27

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1.1723 xml-apis 1.3.04
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http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2’s various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1’s various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
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1.1726 curl 7.29.0-57.el7
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libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

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GnuTLS http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and
libgpg-error) and they too are LGPL- or GPL-licensed.

yassl http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

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axTLS http://axtls.sourceforge.net/

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c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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Heimdal http://www.pdc.kth.se/heimdal/

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

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1.1727 go-hclog 0.12.0
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1.1728 opensaml-saml-impl 3.3.1

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1.1729.1 Available under license :

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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
* Client-verified SSL certificates for HTTPSConnectionPool
* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRiBZDhBFXQB6/>
* Code review, PEP8 compliance, benchmark fix
* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL
Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

Danilo @dbrgn <https://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

Arthur Grunseid <https://grunseid.com>
* source_address support and tests (with https://github.com/bui)

Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.
* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

---

Open Source Used In SDWan 20.7.1 18850
* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to ‘memoryview’ usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist
* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
* Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
* Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
* Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
* DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
* Test improvements

* Chris Olufson <tycarac@gmail.com>
* Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
* Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
* Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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* /opt/cola/permits/1111302167_1606896613.8/0/opensaml-saml-api-3-3-1-sources-1-
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* /opt/cola/permits/1111302167_1606896613.8/0/opensaml-saml-api-3-3-1-sources-1-
jar/org/opensaml/saml/common/binding/EndpointResolver.java
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jar/org/opensaml/saml/saml2/core/package-info.java
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jar/org/opensaml/saml/profile/SAML2ObjectSupport.java
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jar/org/opensaml/saml2/binding/artifact/SAML2ArtifactType0004Builder.java
* /opt/cola/permits/1111302167_1606896613.8/0/opensaml-saml-api-3-3-1-sources-1-
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jar/org/opensaml/saml2/core/IDPEntry.java
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The snowball stemmers in
   analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
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   analysis/common/src/resources/org/apache/lucene/analysis/snowball
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The full snowball package is available from
   http://snowball.tartarus.org/

The KStem stemmer in
   analysis/common/src/org/apache/lucene/analysis/en
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   analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
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   analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
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   analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Checks if this content model has had its min/maxOccurs values reduced for purposes of speeding up UPA. If so, this content model should not be used for any purpose other than checking unique particle attribution.

@return a boolean that says whether this content has been compacted for UPA

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DOM Level 3 LS CR - Experimental. Create a new <code>LSParser</code>. The newly constructed parser may then be configured by means of its <code>DOMConfiguration</code> object, and used to parse documents by means of its <code>parse</code> method.

@param mode The <code>mode</code> argument is either
<code>MODE_SYNCHRONOUS</code> or <code>MODEASYNCHRONOUS</code>, if <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the <code>LSParser</code> that is created will operate in synchronous mode, if it's <code>MODEASYNCHRONOUS</code> then the <code>LSParser</code> that is created will operate in asynchronous mode.

@param schemaType An absolute URI representing the type of the schema language used during the load of a <code>Document</code> using the newly created <code>LSParser</code>. Note that no lexical checking is done on the absolute URI. In order to create a <code>LSParser</code> for any kind of schema types (i.e. the <code>LSParser</code> will be free to use any schema found), use the value <code>null</code>.

<p>Note: For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/'>XML Schema Part 1</a>], applications must use the value <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>], applications must use the value <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages are outside the scope of the W3C and therefore should recommend an absolute URI in order to use this method.

@return The newly created <code>LSParser</code> object. This <code>LSParser</code> is either synchronous or asynchronous depending on the value of the <code>mode</code> argument.

<p>Note: By default, the newly created <code>LSParser</code> does not contain a <code>DOMErrorHandler</code>, i.e. the value of the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>" configuration parameter is <code>null</code>. However, implementations may provide a default error handler at creation time. In that case, the initial value of the "error-handler" configuration parameter on the new created <code>LSParser</code> contains a reference to the default error handler.

@exception DOMException NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is not supported.

*/

Found in path(s):
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/merge/MergeAlgorithm.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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*/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/internal/storage/file/PackIndexV1.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/attributes/FilterCommandFactory.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revwalk/RevBlob.java
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  */opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/internal/storage/pack/ObjectToPack.java
  */opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/storage/pack/PackConfig.java

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  jar/org/eclipse/jgit/lib/TypedConfigGetter.java
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/**
 * A special exception thrown when [@link AutoLFInputStream] is told to
 * throw an exception when attempting to read a binary file. The exception
 * may be thrown at any stage during reading.
 *
 * @since 3.3
 */

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/util/io/AutoLFInputStream.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/util/TemporaryBuffer.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/treewalk/TreeWalk.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/dircache/DirCacheEditor.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/dircache/DirCacheIterator.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/dircache/DirCacheBuilder.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/dircache/DirCacheTree.java
*/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/file/WindowCache.java
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/**
 * {@inheritDoc}
 * <p>
 * Free resources associated with this instance.
 * <p>
 * If the repository was opened by a static factory method in this class,
 * then this method calls {@link Repository#close()} on the underlying
 * repository instance. (Whether this actually releases underlying
 * resources, such as file handles, may vary; see {@link Repository} for
 * more details.)
 * <p>
 * If the repository was created by a caller and passed into
 * {@link #Git(Repository)} or a static factory method in this class, then
 * this method does not call close on the underlying repository.
 * <p>
 * In all cases, after calling this method you should not use this
 * {@link Git} instance anymore.
 * 
 * @since 3.2
 */

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/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/Git.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/internal/storage/file/PackIndex.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/revwalk/RevSort.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/transport/PushConnection.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/util/io/NullOutputStream.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revwalk/PendingGenerator.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revwalk/filter/PatternMatchRevFilter.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/storage/file/WindowCacheStats.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/lib/BaseRepositoryBuilder.java
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jar/org/eclipse/jgit/transport/JschConfigSessionFactory.java

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jar/org/eclipse/jgit/internal/storage/pack/BinaryDelta.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/errors/EntryExistsException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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jar/org/eclipse/jgit/hooks/PrePushHook.java
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jar/org/eclipse/jgit/hooks/PreCommitHook.java
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jar/org/eclipse/jgit/api/errors/AbortedByHookException.java
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jar/org/eclipse/jgit/api/CommitMsgHook.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/HttpTransport.java

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jar/org/eclipse/jgit/transport/SshSessionFactory.java
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jar/org/eclipse/jgit/transport/FetchProcess.java
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  jar/org/eclipse/jgit/api/CreateBranchCommand.java
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*/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/transport/CredentialsProvider.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/errors/MissingObjectException.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/api/errors/PatchApplyException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/storage/dfs/DfsBlock.java
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/**
 * Fetch objects we don't have but that are reachable from advertised refs.
 * <p>
 * Only one call per connection is allowed. Subsequent calls will result in
 * [[link org.eclipse.jgit.errors.TransportException]].
 * </p>
 * <p>
 * Implementations are free to use network connections as necessary to
 * efficiently (for both client and server) transfer objects from the remote
 * repository into this repository. When possible implementations should
 * avoid replacing/overwriting/duplicating an object already available in
 * the local destination repository. Locally available objects and packs
 * should always be preferred over remotely available objects and packs.
 * [[link org.eclipse.jgit.transport.Transport#isFetchThin()]] should be
 * honored if applicable.
 * </p>
 *
 * @param monitor
 * progress monitor to inform the end-user about the amount of
 * work completed, or to indicate cancellation. Implementations
 * should poll the monitor at regular intervals to look for
 * cancellation requests from the user.
 * @param want
 * one or more refs advertised by this connection that the caller
 * wants to store locally.
 * @param have
 * additional objects known to exist in the destination
 * repository, especially if they aren't yet reachable by the ref
 * database. Connections should take this set as an addition to
what is reachable through all Refs, not in replace of it.
@throws org.eclipse.jgit.errors.TransportException
objects could not be copied due to a network failure,
protocol error, or error on remote side, or connection was
already used for fetch.
*/

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  */opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/merge/StrategyOneSided.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/api/errors/InvalidRemoteException.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/util/RawParseUtils.java

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  jar/org/eclipse/jgit/api/LogCommand.java
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  jar/org/eclipse/jgit/api/errors/MultipleParentsNotAllowedException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/util/SshSupport.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/dircache/BaseDirCacheEditor.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/lib/ReflogReader.java

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- /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revwalk/ObjectWalk.java
- /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revwalk/RevFlag.java
- /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revwalk/MessageRevFilter.java
- /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revwalk/BlockRevQueue.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/ignore/IgnoreNode.java

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  jar/org/eclipse/jgit/transport/PackParser.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/RefLeaseSpec.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/NetRCCredentialsProvider.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/treewalk/CanonicalTreeParser.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/lib/RefUpdate.java

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jar/org/eclipse/jgit/transport/OpenSshConfig.java
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* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/file/PackBitmapIndexBuilder.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/file/PackBitmapIndex.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/transport/RequestNotYetReadException.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/file/BitmapObject.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/dfs/BeforeDfsPackIndexLoadedListener.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/revwalk/BitmapWalker.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/file/BasePackBitmapIndex.java
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* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/lib/BitmapWriterV1.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/pack/PackWriterBitmapPreparer.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/errors/CannotDeleteCurrentBranchException.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/errors/UnmergedPathsException.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/FetchCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/PushCommand.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/patch/StrategySimpleTwoWayInCore.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/SideBandOutputStream.java  
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/BaseReceivePack.java  

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  jar/org/eclipse/jgit/transport/DfsPackCompactor.java
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  jar/org/eclipse/jgit/transport/DfsPacksChangedEvent.java
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  jar/org/eclipse/jgit/transport/DfsPacksChangedListener.java
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  jar/org/eclipse/jgit/internal/storage/dfs/DfsRefDatabase.java
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Eclipse
The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm
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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1785 not-yet-commons-ssl 0.3.9

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1.1786 initramfs-tools 0.122ubuntu8.15

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The current Debian maintainer are maximilian attems <maks@debian.org>
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The current ubuntu release can be found at:

The Debian tree is maintained with "git" at:
https://anonscm.debian.org/git/kernel/initramfs-tools.git
https://anonscm.debian.org/cgit/kernel/initramfs-tools.git

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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/TopicProcessor.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/EventLoopProcessor.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/CorePublisher.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/util/concurrent/SpscArrayQueue.java
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxMetrics.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxFilterFuseable.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/NonBlocking.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/MonoMetricsFuseable.java
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/MonoWhen.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/MonoPeekTerminal.java
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxSwitchOnFirst.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxOnBackpressureBufferTimeout.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxFilter.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/MonoCacheTime.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxCombineLatest.java
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jar/reactor/core/publisher/ConnectableFluxHide.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
jar/reactor/core/publisher/MonoLiftFuseable.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
jar/reactor/core/publisher/GroupedLift.java
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jar/reactor/core/publisher/ParallelLiftFuseable.java
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jar/reactor/core/publisher/MonoDoOnEach.java
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jar/reactor/core/publisher/FluxDoOnEachFuseable.java
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jar/reactor/core/publisher/Traces.java
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
jar/reactor/core/publisher/FluxUsingWhen.java
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jar/reactor/core/publisher/QueueDrainSubscriber.java
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jar/reactor/util/Metrics.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
jar/reactor/core/publisher/FluxMetricsFuseable.java
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jar/reactor/scheduler/ReactorThreadFactory.java
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reactor.core.scheduler.ReactorBlockHoundIntegration

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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/MonoElementAt.java
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/MonoDoFinallyFuseable.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxDoFinally.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/MonoSingle.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxLog.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxAutoConnect.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxArray.java
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jar/reactor/core/Scannable.java
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
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/* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/SourceProducer.java
/* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxLiftFuseable.java
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jar/reactor/core/publisher/MonoSink.java
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxDelaySequence.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/MonoSingleMono.java

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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/scheduler/ReactorBlockHoundIntegration.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/InternalFluxOperator.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxDeferWithContext.java

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1.1813 diffutils 3.6

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software

Open Source Used In SDWan 20.7.1 19551
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla’s root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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***** END LICENSE BLOCK *****
@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $Date: 2011/11/03 15:11:58 $
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1.1822 jcl-over-slf4j 1.7.22.jbossorg-1

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1.1823 libtext-iconv-perl 1.7-5build4

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation and installation of the library.

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be optional: if the application does not supply it, the square root function must still compute square roots.)

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#*TITLE: List of code with permissive licenses as used by GnuPG.
#*STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.1845 joda-time 2.9.7

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1.1846 miekg-dns 1.1.26

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1.1847 neo4j-dbms 4.1.7

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1.1855 jjwt 0.7.0

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1.1856 wildfly-elytron-realm-jdbc 1.11.4.Final

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1.1857 libyaml 0.1.6
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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
```c
+int display_legal(pam_handle_t *pamh)
+
+ int retval = PAM_IGNORE, rc;
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+     PAM_MODUTIL_DEF_PRIVS(privs);
+     
+     /* Get the password entry */
+     pwd = pam_modutil_getpwnam (pamh, user);
+     if (pwd != NULL)
+     {
+         if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+             pam_syslog(pamh, LOG_ERR,
+                        "Unable to change UID to %d temporarily\n",
+                        pwd->pw_uid);
+             retval = PAM_SESSION_ERR;
+             goto finished;
+         }
+         
+         if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+             goto finished;
+         if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+             goto finished;
+         
+         if (stat(flag, &s) != 0)
+         {
+             display_file(pamh, "/etc/legal");
+             mkdir(dir, 0700);
+             f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                      S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+             if (f>=0) close(f);
+         }
```

+finished:
+    if (pam_modutil_regain_priv(pamh, &privs)) {
+        pam_syslog(pamh, LOG_ERR,
+                   "Unable to change UID back to %d\n", privs.old_uid);
+        retval = PAM_SESSION_ERR;
+    }
+    _pam_drop(flag);
+    _pam_drop(dir);
+}
+    return retval;
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags, int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);

+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.1860 jna 5.4.0

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* /opt/ws_local/PERMITS_SQL/1046144868_1591004764.45/0/jna-5-4-0-sources-jar/com/sun/jna/Library.java
* /opt/ws_local/PERMITS_SQL/1046144868_1591004764.45/0/jna-5-4-0-sources-jar/com/sun/jna/VarArgsChecker.java

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* /opt/ws_local/PERMITS_SQL/1046144868_1591004764.45/0/jna-5-4-0-sources-jar/com/sun/jna/StructureWriteContext.java
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Type mapping behavior may be customized by providing a { @link com.sun.jna.TypeMapper} for the { @link com.sun.jna.Library#OPTION_TYPE_MAPPER} option when initializing a library interface. See { @link com.sun.jna.win32.W32APITypeMapper} for an example which provides custom conversion of boolean and String types. You are free to use whatever types are convenient in your defined interfaces, but all custom types must provide a mapping to one of the basic or derived types listed above.

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The following individuals contributed in part to the Network Time
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24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
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26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpswipe
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
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46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for
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47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.net> Saved a Lot of
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52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
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long-opt;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION="\$ sed -e \'s/\.*[//]\.-e \'s/\=*/\|$< ../sntp/m4/version.m4"
          [ -z "$VERSION" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
          echo $VERSION`;

version-value = "
/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi.
*/
// doc-sub = {
//     sub-name = version;
//     sub-text = \$VERSION/<<version>>/g';
// };

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- Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
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- Michael Barone <michael.barone@lmco.com> GPSVME fixes
- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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<li>Kenneth Stone <ken@sdd.hp.com> HP-UX port</li>
<li>Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support</li>
<li>Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver</li>
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Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.1870 mawk 1.3.3 17+b3

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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written
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* Creates a new JSRInliner. <i>Subclasses must not use this constructor</i>
* instead, they must use the
* [@link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
* version.
*
* @param mv
* the <code>MethodVisitor</code> to send the resulting inlined
* method code to (use <code>null</code> for none).
* @param access
* the method's access flags (see [@link Opcodes]). This
* parameter also indicates if the method is synthetic and/or
* deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type]).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* { [@link Type#getInternalName() getInternalName ]). May be
* <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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*/
/**
 * Creates a new [ GeneratorAdapter ]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ GeneratorAdapter(int, MethodVisitor, int, String, String) ]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see [ Opcodes ]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [ Type Type ]).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/GeneratorAdapter.java

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 */

/** *
 * Constructs a new [Textifier]. <i>Subclasses must not use this constructor</i>. Instead, they must use the [Textifier(int)]
 * version.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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/**
* Constructs a new [ClassNode]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the [ClassNode(int)]
* version.
*
* @throws IllegalStateException
*          If a subclass calls this constructor.
*/

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/**
 * Constructs a new [{@link LocalVariableAnnotationNode}]. <i>Subclasses must  
 * not use this constructor</i>. Instead, they must use the  
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}  
 * version.  
 * 
 * @param typeRef  
 * a reference to the annotated type. See {@link TypeReference}.  
 * @param typePath  
 * the path to the annotated type argument, wildcard bound, array  
 * element type, or static inner type within 'typeRef'. May be  
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.  
 * @param start  
 * the fist instructions corresponding to the continuous ranges  
 * that make the scope of this local variable (inclusive).  
 * @param end  
 * the last instructions corresponding to the continuous ranges  
 * that make the scope of this local variable (exclusive). This  
 * array must have the same size as the 'start' array.  
 * @param index  
 * the local variable's index in each range. This array must have  
 * the same size as the 'start' array.  
 * @param desc
the class descriptor of the annotation class.
*/

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 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [{ @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}]
 * version.
 */
* @param owner

* the owner's class name.

* @param access

* the method's access flags (see [@link Opcodes]).

* @param name

* the method's name.

* @param desc

* the method's descriptor (see [@link Type Type]).

* @param mv

* the method visitor to which this adapter delegates calls. May

* be &lt;tt&gt;null&lt;/tt&gt;.

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

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* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/stackmap/Tracer.java
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* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/ util/proxy/FactoryHelper.java

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* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
--------- ------- ---- ------ ------ -------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
--------- ------- ---- ------ ------ -------
__ts dev__1 2048 4095 1024  83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
--------- ------- ---- ------ ------ -------
__ts dev__1 2048 4095 1024  83 Linux
__ts dev__2 4096 20479 8192  a5 FreeBSD

Open Source Used In SDWan 20.7.1 2018
Create default BSD
2e1cee529eb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start  end  size  fstype  [fsize bsize cpg]
c:  4096  20479  16384  unused  0  0
 d:  0  16064  16065  unused  0  0

BSD disklabel command (m for help):
Command (m for help):

-------------------
b5c121c2091b2ff26b880551f9ac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start  end  size  fstype  [fsize bsize cpg]
a:  4096  6144  2049  4.2BSD  0  0  0
c:  4096  20479  16384  unused  0  0
d:  0  16064  16065  unused  0  0

BSD disklabel command (m for help):
Command (m for help):

-------------------
Command (m for help):

BSD disklabel command (m for help):

0  unused           5  4.1BSD       9  4.4LFS       d  boot
1  swap             6  Eighth Edition a  unknown     e  ADOS
2  Version 6        7  4.2BSD       b  HPFS        f  HFS
3  Version 7        8  MS-DOS       c  ISO-9660    10  AdvFS
4  System V

BSD disklabel command (m for help):

1.1899 jakarta-ws-rs-api 2.1.5
1.1899.1 Available under license:

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## Source Code

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* https://github.com/eclipse-ee4j/jaxrs-api

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1.1901 commons-collections 3.2.2
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5.10.7.Final

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1.1905 tacacs_plus 2.6

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Metadata-Version: 1.1
Name: tacacs-plus
Version: 2.6
Summary: A client for TACACS+ authentication
Home-page: http://github.com/ansible/tacacs_plus
Author: Ryan Petrello
Author-email: ryan@ryanpetrello.com
License: BSD
Description: UNKNOWN
Keywords: tacas tacacs+ tacacs_plus auth authentication pap chap
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: PyPy

Found in path(s):
from setuptools import setup, find_packages

version = '2.6'

setup(
    name='tacacs_plus',
    version=version,
)
version=version,
description="A client for TACACS+ authentication",
long_description=None,
classifiers=[
    'Development Status :: 5 - Production/Stable',
    'Environment :: Console',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: MacOS :: MacOS X',
    'Operating System :: Microsoft :: Windows',
    'Operating System :: POSIX',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: Implementation :: PyPy',
],
keywords='tacas tacacs+ tacacs_plus auth authentication pap chap',
author='Ryan Petrello',
author_email='ryan@ryanpetrello.com',
url='http://github.com/ansible/tacacs_plus',
license='BSD',
packages=find_packages(exclude=['examples']),
install_requires=['six'],
setup_requires=['pytest-runner'],
tests_require=['pytest', 'pytest-cov'],
include_package_data=True,
scripts=['bin/tacacs_client'],
zip_safe=False)

Found in path(s):
* /opt/cola/permits/1236563619_1638553247.51/0/tacacs-plus-2-6-tar-gz/tacacs_plus-2.6/setup.py

1.1906 busybox 1.27.2
1.1906.1 Available under license:

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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/IincInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Attribute.java
jar/org/objectweb/asm/MethodVisitor.java
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 */
/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
 * version.
 *
 * @throws IllegalStateException
 *          If a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/tree/ClassNode.java
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* /
/**
 * Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See [@link TypeReference].
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/TypePath.java
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/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { [@link AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see { [@link Opcodes]}).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { [@link Type Type]}).
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */
Found in path(s):
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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 */
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 *@param access
 * the method's access flags (see @link Opcodes). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
the method's name.
* @param desc
* the method's descriptor (see {@link Type}).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* {@link Type#getInternalName()} getInternalName)). May be
* <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
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/**
* Creates a new [GeneratorAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [GeneratorAdapter(int, MethodVisitor, int, String, String)]
* version.
*
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-jar/org/objectweb/asm/tree/package.html

1.1934 wildfly-elytron-auth 1.11.4.Final
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* /opt/ws_local/PERMITS_SQL/1094807140_1601322225.29/0/wildfly-elytron-auth-1-11-4-final-sources-jar/org/wildfly/security/auth/ReauthenticationException.java

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* /opt/ws_local/PERMITS_SQL/1094801950_1601321240.9/0/wildfly-elytron-jacc-1-11-4-final-sources-jar/org/wildfly/security/authz/jacc/ElytronPolicyConfiguration.java
* /opt/ws_local/PERMITS_SQL/1094801950_1601321240.9/0/wildfly-elytron-jacc-1-11-4-final-sources-jar/org/wildfly/security/authz/jacc/ElytronPolicyConfigurationFactory.java

1.1936 jakarta-persistence-api 2.2.3
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* /opt/cola/permits/1155895537_1619081415.62/0/azure-mgmt-compute-12-0-0-1-azure-mgmt-compute-12.0.0/azure/mgmt/compute/v2019_03_01/operations/_disks_operations.py
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# Provide Feedback

If you encounter any bugs or have suggestions, please file an issue in the [Issues](https://github.com/Azure/azure-sdk-for-python/issues) section of the project.

![Impressions](https://azure-sdk-impressions.azurewebsites.net/api/impressions/azure-sdk-for-python%2Fazure-mgmt-compute%2FREADME.png)

# Release History

## 12.0.0 (2020-03-23)

**Features**

- Model VirtualMachineScaleSetInstanceView has a new parameter orchestration_services
- Added operation VirtualMachineScaleSetsOperations.set_orchestration_service_state
- Added operation group SshPublicKeysOperations

**Breaking changes**

- Model AvailabilitySetUpdate no longer has parameter id
- Model AvailabilitySetUpdate no longer has parameter name
- Model AvailabilitySetUpdate no longer has parameter type
- Model VirtualMachineScaleSetUpdate no longer has parameter id
- Model VirtualMachineScaleSetUpdate no longer has parameter name
- Model VirtualMachineScaleSetUpdate no longer has parameter type
- Model DedicatedHostGroupUpdate no longer has parameter id
- Model DedicatedHostGroupUpdate no longer has parameter name
- Model DedicatedHostGroupUpdate no longer has parameter type
- Model VirtualMachineUpdate no longer has parameter id
- Model VirtualMachineUpdate no longer has parameter name
- Model VirtualMachineUpdate no longer has parameter type
- Model DedicatedHostUpdate no longer has parameter id
- Model DedicatedHostUpdate no longer has parameter name
- Model DedicatedHostUpdate no longer has parameter type
- Model ImageUpdate no longer has parameter id
- Model ImageUpdate no longer has parameter name
- Model ImageUpdate no longer has parameter type
- Model VirtualMachineExtensionUpdate no longer has parameter virtual_machine_extension_update_type
- Model VirtualMachineExtensionUpdate no longer has parameter id
- Model VirtualMachineExtensionUpdate no longer has parameter name
- Model ProximityPlacementGroupUpdate has a new signature
- Model UpdateResource has a new signature

## 11.1.0 (2020-03-09)
**Features**

- Operation VirtualMachineImagesOperations.list has a new parameter $expand

**Bugfixes**

- remove not-working $filter in Operation VirtualMachineImagesOperations.list

## 11.0.0 (2020-02-27)

**Features**

- Model AvailabilitySetUpdate has a new parameter name
- Model AvailabilitySetUpdate has a new parameter id
- Model AvailabilitySetUpdate has a new parameter type
- Model DedicatedHostGroupUpdate has a new parameter name
- Model DedicatedHostGroupUpdate has a new parameter id
- Model DedicatedHostGroupUpdate has a new parameter type
- Model ImageReference has a new parameter exact_version
- Model SnapshotUpdate has a new parameter encryption
- Model ProximityPlacementGroup has a new parameter colocletion_status
- Model ImageUpdate has a new parameter name
- Model ImageUpdate has a new parameter id
- Model ImageUpdate has a new parameter type
- Model VirtualMachineExtensionUpdate has a new parameter name
- Model VirtualMachineExtensionUpdate has a new parameter id
- Model VirtualMachineExtensionUpdate has a new parameter virtual_machine_extension_update_type
- Model Disk has a new parameter share_info
- Model Disk has a new parameter disk_mbps_read_only
- Model Disk has a new parameter managed_by_extended
- Model Disk has a new parameter max_shares
- Model Disk has a new parameter disk_iops_read_only
- Model CreationData has a new parameter gallery_image_reference
- Model DiskUpdate has a new parameter max_shares
- Model DiskUpdate has a new parameter encryption
- Model DiskUpdate has a new parameter disk_mbps_read_only
- Model DiskUpdate has a new parameter disk_iops_read_only
- Model VirtualMachineScaleSetUpdate has a new parameter name
- Model VirtualMachineScaleSetUpdate has a new parameter id
- Model VirtualMachineScaleSetUpdate has a new parameter type
- Model DedicatedHostUpdate has a new parameter name
- Model DedicatedHostUpdate has a new parameter id
- Model DedicatedHostUpdate has a new parameter type
- Model TargetRegion has a new parameter encryption
- Model VirtualMachineUpdate has a new parameter name
- Model VirtualMachineUpdate has a new parameter id
- Model VirtualMachineUpdate has a new parameter type
- Model VirtualMachineScaleSetExtension has a new parameter type1
- Added operation GalleriesOperations.update
- Added operation GalleryImagesOperations.update
- Added operation GalleryImageVersionsOperations.update
- Added operation VirtualMachineScaleSetExtensionsOperations.update
- Added operation GalleryApplicationVersionsOperations.update
- Added operation GalleryApplicationsOperations.update

**Breaking changes**

- Model AutomaticRepairsPolicy no longer has parameter max_instance_repairs_percent
- Model ProximityPlacementGroupUpdate has a new signature
- Model UpdateResource has a new signature

### 10.0.0 (2019-11-18)

**Features**

- Model VirtualMachineScaleSetUpdate has a new parameter
  proximity_placement_group
- Enum VirtualMachinePriorityTypes has new value Spot

**Breaking changes**

- Operation ProximityPlacementGroupsOperations.get has a new signature

### 9.0.0 (2019-10-22)

**Features**

- Model VirtualMachineScaleSetUpdateNetworkProfile has a new parameter
  health_probe
- Model VirtualMachineScaleSetUpdate has a new parameter
  do_not_run_extensions_on_overprovisioned_vms
- Model VirtualMachineScaleSetUpdate has a new parameter
  automatic_repairs_policy
- Model VirtualMachineScaleSetManagedDiskParameters has a new parameter
  disk_encryption_set
- Model ImageDataDisk has a new parameter disk_encryption_set
- Model VirtualMachineScaleSet has a new parameter
  automatic_repairs_policy
- Model ImageOSDisk has a new parameter disk_encryption_set
- Model ManagedDiskParameters has a new parameter
  disk_encryption_set
- Model Snapshot has a new parameter encryption
- Model VirtualMachineScaleSetDataDisk has a new parameter
  disk_mbps_read_write
- Model VirtualMachineScaleSetDataDisk has a new parameter
disk_iops_read_write
- Model Disk has a new parameter encryption
- Model VirtualMachineScaleSetPublicIPAddressConfiguration has a new parameter public_ip_address_version
- Model DataDisk has a new parameter disk_mbps_read_write
- Model DataDisk has a new parameter disk_iops_read_write
- Model OSProfile has a new parameter require_guest_provision_signal
- Added operation VirtualMachinesOperations.reapply
- Added operation group DiskEncryptionSetsOperations
- Added operation group VirtualMachineScaleSetVMExtensionsOperations

**Breaking changes**

- Operation VirtualMachinesOperations.list_all has a new signature
- Operation ResourceSkusOperations.list has a new signature

## 8.0.0 (2019-09-12)

**Note**

- Compute API version default is now 2019-07-01
- New disks version 2019-03-01
- New galleries version 2019-07-01

**Features**

- Model GalleryImageVersionStorageProfile has a new parameter source
- Model GalleryDiskImage has a new parameter source
- Model Snapshot has new parameters: disk_size_bytes, unique_id, incremental
- Model EncryptionSettingsCollection has a new parameter encryption_settings_version
- Model CreationData has new parameters: source_unique_id, upload_size_bytes

**Breaking Changes**

- Model GalleryImageVersionPublishingProfile no longer has parameter source

## 7.0.0 (2019-08-27)

**Features**

- Model VirtualMachineScaleSetUpdateVMProfile has a new parameter scheduled_events_profile
- Model VirtualMachineScaleSetUpdateVMProfile has a new parameter
billing_profile
- Model VirtualMachine has a new parameter
  virtual_machine_scale_set
- Model VirtualMachine has a new parameter priority
- Model VirtualMachine has a new parameter billing_profile
- Model VirtualMachine has a new parameter eviction_policy
- Model VirtualMachineScaleSetVMProfile has a new parameter
  scheduled_events_profile
- Model VirtualMachineScaleSetVMProfile has a new parameter
  billing_profile
- Model VirtualMachineImage has a new parameter hyper_vgeneration
- Model VirtualMachineUpdate has a new parameter
  virtual_machine_scale_set
- Model VirtualMachineUpdate has a new parameter priority
- Model VirtualMachineUpdate has a new parameter billing_profile
- Model VirtualMachineUpdate has a new parameter eviction_policy

**Breaking changes**

- Operation VirtualMachineScaleSetVMsOperations.get has a new signature

## 6.0.0 (2019-07-20)

**Features**

- Model VirtualMachine has a new parameter host
- Model VirtualMachineUpdate has a new parameter host
- Model VirtualMachineInstanceView has a new parameter
  hyper_vgeneration
- Added operation group GalleryApplicationVersionsOperations
- Added operation group GalleryApplicationsOperations
- Added operation group DedicatedHostsOperations
- Added operation group DedicatedHostGroupsOperations

**Breaking changes**

- Model GalleryArtifactPublishingProfileBase has a new signature

**General Breaking changes**

This version uses a next-generation code generator that *might*
introduce breaking changes if you were importing from the v20xx_yy_zz
API folders. In summary, some modules were incorrectly
visible/importable and have been renamed. This fixed several issues
caused by usage of classes that were not supposed to be used in the
first place.
- ComputeManagementClient cannot be imported from
  `azure.mgmt.compute.v20xx_yy_zz.compute_management_client`
  anymore (import from `azure.mgmt.compute.v20xx_yy_zz` works like
  before)
- ComputeManagementClientConfiguration import has been moved from
  `azure.mgmt.compute.v20xx_yy_zz.compute_management_client` to
  `azure.mgmt.compute.v20xx_yy_zz`
- A model `MyClass` from a "models" sub-module cannot be imported
  anymore using `azure.mgmt.compute.v20xx_yy_zz.models.my_class`
  (import from `azure.mgmt.compute.v20xx_yy_zz.models` works like
  before)
- An operation class `MyClassOperations` from an `operations`
  sub-module cannot be imported anymore using
  `azure.mgmt.compute.v20xx_yy_zz.operations.my_class_operations`
  (import from `azure.mgmt.compute.v20xx_yy_zz.operations` works
  like before)

Last but not least, HTTP connection pooling is now enabled by default.
You should always use a client as a context manager, or call close(), or
use no more than one client per process.

### 5.0.0 (2019-04-26)

**Features**

- Model ImageUpdate has a new parameter `hyper_vgeneration`
- Model Image has a new parameter `hyper_vgeneration`
- Model AvailabilitySet has a new parameter
  `proximity_placement_group`
- Model VirtualMachine has a new parameter
  `proximity_placement_group`
- Model VirtualMachineUpdate has a new parameter
  `proximity_placement_group`
- Model VirtualMachineScaleSet has a new parameter
  `proximity_placement_group`
- Model VirtualMachineScaleSet has a new parameter
  `additional_capabilities`
- Model VirtualMachineScaleSetUpdate has a new parameter
  `additional_capabilities`
- Model AvailabilitySetUpdate has a new parameter
  `proximity_placement_group`
- Added operation group ProximityPlacementGroupsOperations
- Model DataDisk has a new parameter `to_be_detached`
- Model ResourceSkuLocationInfo has a new output `zone_details`

**Breaking changes**

- Model VirtualMachineScaleSetVMProfile no longer has parameter
  `additional_capabilities`
- Latest version of disks/snapshot renamed the enum StorageAccountTypes to DiskStorageAccountTypes
- images.create_or_update requires hyper_vgeneration parameter if disk is OS type

## 4.6.2 (2019-04-22)

**Bugfix**

- Revert "images" API version introduced in 4.6.0 from 2019-03-01 to 2018-10-01 for backward compatibility #4891

## 4.6.1 (2019-04-18)

**Bugfixes**

- Make enum declarations in Compute package consistent, for the sake of code inspection.

## 4.6.0 (2019-04-12)

**Features**

- Model VirtualMachineScaleSet has a new parameter do_not_run_extensions_on_overprovisioned_vms
- Model VirtualMachineScaleSetVM has a new parameter network_profile_configuration
- Model VirtualMachineScaleSetVM has a new parameter protection_policy
- Model VirtualMachineScaleSetVM has a new parameter model_definition_applied
- Added operation VirtualMachineScaleSetsOperations.convert_to_single_placement_group
- Operation VirtualMachineScaleSetVMsOperations.power_off has a new signature and can now skip_shutdown
- Operation VirtualMachinesOperations.power_off has a new signature and can now skip_shutdown
- Operation VirtualMachineScaleSetsOperations.power_off has a new signature and can now skip_shutdown

## 4.5.1 (2019-03-29)

**Bugfixes**

- Fix regression in direct import from models

## 4.5.0 (2019-03-28)
**New version of Managed Disks**

- Disks/Snapshots have a new optional property HyperVGeneration which may be set to V1 or V2.
- EncryptionSettings on a disk are now a collection instead of a single value. This allows multiple volumes on an encrypted disk.
- There is a new CreateOption (Upload) for disks. To upload disks customers
  > - PUT a disk with CreateOption.Upload.
  > - Use GrantAccess API with AccessLevel.Write to get a write SAS to the disk. This is a new access level and it can only be used when uploading to a new disk. Customers can then use storage API to upload the bits for the disk.
  > - There are new DiskStates (DiskState.ReadyToUpload and DiskState.ActiveUpload) that are associated with the upload process.

## 4.4.0 (2018-01-04)

**Features**

- Model VirtualMachineScaleSetExtension has a new parameter provision_after_extensions
- Operation VirtualMachineScaleSetVMsOperations.reimage has a new parameter temp_disk
- Operation VirtualMachineScaleSetsOperations.reimage has a new parameter temp_disk
- Added operation VirtualMachinesOperations.reimage

## 4.3.1 (2018-10-15)

**Bugfix**

- Fix sdist broken in 4.3.0. No code change.

## 4.3.0 (2018-10-02)

**Note**

- Compute API version default is now 2018-10-01

**Features/BreakingChanges**

- This version updates the access to properties realted to automatic OS upgrade introduced in 4.0.0

## 4.2.0 (2018-09-25)
**Features**

- Model OSDisk has a new parameter `diff_disk_settings`
- Model BootDiagnosticsInstanceView has a new parameter `status`
- Model VirtualMachineScaleSetOSDisk has a new parameter `diff_disk_settings`
- Added operation `VirtualMachinesOperations.list_by_location`

**Note**

- `azure-mgmt-nspkg` is not installed anymore on Python 3 (PEP420-based namespace package)

## 4.1.0 (2018-09-12)

2018-06-01 for `disks` and `snapshots` (new default)

**Features**

- Model `DiskUpdate` has a new parameter `disk_iops_read_write`
- Model `DiskUpdate` has a new parameter `disk_mbps_read_write`
- Model `VirtualMachineUpdate` has a new parameter `additional_capabilities` (`ultraSSDEnabled` attribute)
- Model `VirtualMachineScaleSetVM` has a new parameter `additional_capabilities` (`ultraSSDEnabled` attribute)
- Model `VirtualMachineScaleSetPublicIPAddressConfiguration` has a new parameter `public_ip_prefix`
- Model `Disk` has a new parameter `disk_iops_read_write`
- Model `Disk` has a new parameter `disk_mbps_read_write`
- Model `VirtualMachineScaleSetVMProfile` has a new parameter `additional_capabilities` (`ultraSSDEnabled` attribute)
- Model `VirtualMachine` has a new parameter `additional_capabilities` (`ultraSSDEnabled` attribute)
- Added operation `VirtualMachineScaleSetRollingUpgradesOperations.start_extension_upgrade`
- New enum value `UltraSSD_LRS` for `StorageAccountTypes`

## 4.0.1 (2018-07-23)

**Bugfix**

- Fix incorrect import from `azure.mgmt.compute.models`

## 4.0.0 (2018-07-20)

**Features**
- Model VirtualMachineScaleSetIdentity has a new parameter user_assigned_identities
- Model VirtualMachineScaleSetIPConfiguration has a new parameter application_security_groups
- Model VirtualMachineScaleSetUpdateIPConfiguration has a new parameter application_security_groups
- Model VirtualMachineIdentity has a new parameter user_assigned_identities
- Model LinuxConfiguration has a new parameter provision_vm_agent
- Model OSProfile has a new parameter allow_extension_operations
- Added operation group GalleryImagesOperations
- Added operation group GalleryImageVersionsOperations
- Added operation group GalleriesOperations
- Model UpgradeOperationHistoricalStatusInfoProperties has a new parameter rollback_info
- Model UpgradePolicy has a new parameter auto_os_upgrade_policy
- Added operation AvailabilitySetsOperations.list_by_subscription

**Breaking changes**

- Model VirtualMachineScaleSetIdentity no longer has parameter identity_ids
- Model VirtualMachineScaleSetOSDisk no longer has parameter disk_size_gb
- Model VirtualMachineScaleSetVM no longer has parameter zones
- Model VirtualMachineScaleSetUpdateOSDisk no longer has parameter disk_size_gb
- Model VirtualMachineIdentity no longer has parameter identity_ids

New default API Version is now 2018-06-01

## 4.0.0rc2 (2018-04-17)

**Features**

- All clients now support Azure profiles.
- Add update operation to VirtualMachineExtension operations (all ApiVersions)
- Add get_extensions operation to VirtualMachine operations (all ApiVersions)
- Support eviction policy for virtual machines inside a low priority scale set (2017-12-01)
- Add get_os_upgrade_history to VMSS operations (2017-12-01)

**Bugfixes**

- Compatibility of the sdist with wheel 0.31.0
- Fix some invalid models in Python 3 (introduced in 4.0.0rc1)
## 4.0.0rc1 (2018-03-21)

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes.

- Model signatures now use only keyword-argument syntax. All positional arguments must be re-written as keyword-arguments. To keep auto-completion in most cases, models are now generated for Python 2 and Python 3. Python 3 uses the "*" syntax for keyword-only arguments.
- Enum types now use the "str" mixin (class AzureEnum(str, Enum)) to improve the behavior when unrecognized enum values are encountered. While this is not a breaking change, the distinctions are important, and are documented here: [https://docs.python.org/3/library/enum.html#others](https://docs.python.org/3/library/enum.html#others) At a glance:
  - "is" should not be used at all.
  - "format" will return the string value, where "%s" string formatting will return `NameOfEnum.stringvalue`. Format syntax should be prefered.
- New Long Running Operation:
  - Return type changes from `msrestazure.azure_operation.AzureOperationPoller` to `msrest.polling.LROPoller`. External API is the same.
  - Return type is now **always** a `msrest.polling.LROPoller`, regardless of the optional parameters used.
  - The behavior has changed when using `raw=True`. Instead of returning the initial call result as `ClientRawResponse`, without polling, now this returns an LROPoller. After polling, the final resource will be returned as a `ClientRawResponse`.
  - New `polling` parameter. The default behavior is `Polling=True` which will poll using ARM algorithm. When `Polling=False`, the response of the initial call will be returned without polling.
  - `polling` parameter accepts instances of subclasses of `msrest.polling.PollingMethod`.
  - `add_done_callback` will no longer raise if called after polling is finished, but will instead execute the callback right away.

**Compute features**

- Support zone resilient for image/snapshots (new ApiVersion 2018-04-01)
- Add "operations" operation group
- Add availability_set.update
- Add `images.update`
- Add `virtual_machine.update`

## 3.1.0rc3 (2018-11-01)

**Features**

- Add `VirtualMachineScaleSetNetworkConfiguration` -> `enable_ip_forwarding`
- Add `VirtualMachineScaleSetUpdateNetworkConfiguration` -> `enable_ip_forwarding`
- Add `VirtualMachineScaleSetVMProfile` -> `priority`
- Add `ApiVersion 2017-12-01` of `virtual_machine_run_commands` (new default)

## 3.1.0rc2 (2017-12-14)

**Features**

- Add User Assigned Identity parameters to VM/VMSS creation

**Bugfixes**

- Add `RestrictionInfo` to SKUs list (2017-09-01)
- Restore `virtual_machines.run_commands` (broken in rc1)

## 3.1.0rc1 (2017-11-27)

**Disclaimer**

This version supports Azure Profile. Meaning, you can specify specific API versions to support for each operation groups.

The default API versions of this package are now:
- 2017-03-30 for 'disks', 'virtual_machine_run_commands' and 'snapshots'
- 2017-09-01 for 'resource_skus'
- 2017-12-01 for everything else

**Python features**

- `ComputeManagementClient` has now a "profile" parameter, which is a dict from operation groups name to API version
- Operation groups now have access to their own models. For instance, assuming you have variable called "client", you can access the models for this operation groups (according to your loaded profiles) using `client.virtual_machines.models`
- `azure.mgmt.compute.models` is deprecated. See <https://aka.ms/pysdkmodels> for details.
**Azure features**

- 'resource_skus' has improved 'location_info' field

## 3.0.1 (2017-09-26)

**Bugfix**

- Add missing virtual_machine_scale_set_rolling_upgrades operation group alias

## 3.0.0 (2017-09-26)

**Features**

- Availability Zones
- VMSS Rolling upgrade / patch / health status
- VM instance view APIs

**Breaking changes**

- "azure.mgmt.compute.compute" namespace is now simply "azure.mgmt.compute". If you were already using "azure.mgmt.compute" before, you code should still work exactly the same.
- ContainerService has now been removed and exported in azure-mgmt-containerservice

## 2.1.0 (2017-07-19)

**Features in 2017-03-30**

- Expose 'forceUpdateTag' to ensure extension gets reinstalled even there are no configuration change.

## 2.0.0 (2017-06-29)

**Features**

Compute default Api Version is now 2017-03-30.

New operation groups:

- resources_skus
- virtual_machine_scale_set_extensions
- virtual_machine_run_commands
New methods in VM:

- perform_maintenance
- run_command

Several improvements and modifications in Managed Disks.

**Breaking changes**

- ContainerService: fixed typo in class name
  (ContainerServiceOrchestratorTypes is now ContainerServiceOrchestratorTypes)
- Compute: breaking changes in Managed Disk API:
  - Managed field removed from Create AV Set API
  - Account Type replaced with SKU in PUT and GET Managed Disk Create API
  - OwnerId replaced by ManagedBy in GET Managed Disk API

Note that you can get the behavior of v1.0.0 by forcing the Api Version to "2016-04-30-preview" to update your package but not the code:

> ComputeManagementClient(credentials, subscription_id,
> api_version="2016-04-30-preview")

## 1.0.0 (2017-05-15)

- Tag 1.0.0rc2 as stable (same content)

## 1.0.0rc2 (2017-05-12)

**Features**

- Add Compute ApiVersion 2016-03-30 (AzureStack default)

## 1.0.0rc1 (2017-04-11)

**Breaking Changes**

- Container service is now in it's own client ContainerServiceClient

**Features**

To help customers with sovereign clouds (not general Azure), this version has official multi ApiVersion support for the following resource type:

- Compute: 2015-06-15 and 2016-04-30-preview
The following resource types support one ApiVersion:

- ContainerService: 2017-01-31

## 0.33.0 (2017-02-03)

**Features**

This release adds Managed Disk to compute. This changes the default disk creation behavior to use the new Managed Disk feature instead of Storage.

## 0.32.1 (2016-11-14)

- Add "Kubernetes" on Containers
- Improve technical documentation

## 0.32.0 (2016-11-02)

**Breaking change**

New APIVersion for "container" 2016-09-30.

- several parameters (e.g. "username") now dynamically check before REST calls validity against a regexp. Exception will be TypeError and not CloudError anymore.

## 0.31.0 (2016-11-01)

**Breaking change**

We renamed some "container" methods to follow Azure SDK conventions

- "container" attribute on the client is now "containers"
- "list" changed behavior, now listing containers in subscription and lost its parameter
- "list_by_resource_group" new method with the old "list" behavior

## 0.30.0 (2016-10-17)

- Initial preview release. Based on API version 2016-03-30.

## 0.20.0 (2015-08-31)


Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
1.1938 spring-security-web 5.1.11.RELEASE

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* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-jar/org/springframework/security/web/authentication/DelegatingAuthenticationEntryPoint.java
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* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-jar/org/springframework/security/web/jackson2/PreAuthenticatedAuthenticationTokenDeserializer.java

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1.1951 snappy-java 1.1.4

1.1952 requests-ntlm 1.1.0

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* /opt/cola/permits/1177956813_1625584640.81/0/netty-resolver-4-1-48-final-sources-3-jar/io/netty/resolver/DefaultNameResolver.java
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  jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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* /opt/ws_local/PERMITS_SQL/1094802546_1601320911.96/0/wildfly-elytron-credential-source-deprecated-1-11-4-final-sources-jar/org/wildfly/security/credential/source/CredentialStoreCredentialSource.java
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* /opt/ws_local/PERMITS_SQL/1094802546_1601320911.96/0/wildfly-elytron-credential-source-deprecated-1-11-4-final-sources-jar/org/wildfly/security/credential/source/FactoryCredentialSource.java

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David Megginson, david@megginson.com
2000-05-05

1.1960 klibc 2.0.4-9

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<pre>
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</pre>
</body>
</html>
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2013, International Business Machines Corporation and
## others. All Rights Reserved.

## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for "$<"
1.1964 gnutls 3.6.7-4+deb10u7

1.1964.1 Available under license:

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Version 2.1, February 1999

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1.1971 jline-terminal 3.10.0

1.1972 shadow 4.2-3.1ubuntu5.4

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.. highlight:: none

.. _history-and-license:

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History and License
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
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The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

   A C-program for MT19937, with initialization improved 2002/1/26.
   Coded by Takuji Nishimura and Makoto Matsumoto.

   Before using, initialize the state by using init_genrand(seed)
   or init_by_array(init_key, key_length).

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Sockets
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----------------------------

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-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
--------------------------

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--------

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Original location:
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Solution inspired by code from:
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    djb (supercop/crypto_auth/siphash24/little2)
    Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

----------
The file `Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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-------

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cfuhash
------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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<td>PSF</td>
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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79ea4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.30.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=macosx;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_232

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Introduction
PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```
Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```python
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
-------------
PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
---------
More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
----------------
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-). The CHANGES file acknowledges those who have contributed patches.
Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# calc.py
#
# A simple calculator with variables.
#

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
)

t_PLUS    = r'\+'
t_MINUS   = r'-'
t_TIMES   = r'\*'
t_DIVIDE  = r'/'
t_EQUALS  = r'='
t_LPAREN  = r'('
t_RPAREN  = r')'
t_NAME    = r'[a-zA-Z_]\[a-zA-Z0-9_]*'
def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

def t_TOKENS(t):
    r'\w+'
    t.value = int(t.value)
    return t

# Ignored characters
```
t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    "'expression : expression PLUS expression
    | expression MINUS expression
    | expression TIMES expression
    | expression DIVIDE expression'"

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
Bug Reports and Patches

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

Found in path(s):
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-PLY-3-11-0-g0f398b7-1-tar-gz/dabeaz-PLY-0f398b7/README.md
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* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-PLY-3-11-0-g0f398b7-1-tar-gz/dabeaz-PLY-0f398b7/plx/yacc.py

1.2005 go-runtime 1.15.1

1.2005.1 Available under license :

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# The AUTHORS file lists the copyright holders; this file
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o libpcap: Network packet capture library. Distributed with Nmap in the
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o libdnet: Networking library, used for low-level tasks such as sending
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    is in the file NMAP_MODIFICATIONS.
    http://code.google.com/p/libdnet/
o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's
    version detection and is also made available as an NSE library.
    Distributed with Nmap in the libpcre subdirectory.
    http://www.pcre.org/
o liblua: Lua programming language. Lua is the implementation language
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    http://www.lua.org/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection
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o LIBLINEAR. Used for IPv6 classifiction.
    http://www.csie.ntu.edu.tw/~cjlin/liblinear/
o libsvn. The Subversion library, used by the updater program

On Windows only, Nmap uses:
o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap,
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o Python. The binary distributions of Nmap include a Python interpreter
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--- end of FTL.TXT ---

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1.2020 hk2-utils 2.6.1

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* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-
  jar/io/opentelemetry/sdk/correlationcontext/CorrelationContextManagerSdk.java
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  jar/io/opentelemetry/sdk/correlationcontext/CorrelationContextSdk.java
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* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-
  jar/io/opentelemetry/sdk/metrics/LongUpDownCounterSdk.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-
  jar/io/opentelemetry/sdk/trace/data/test/TestSpanData.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-
  jar/io/opentelemetry/sdk/metrics/MeterSdkProvider.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-
  jar/io/opentelemetry/sdk/trace/SpanProcessor.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-
  jar/io/opentelemetry/sdk/trace/Sampler.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-
  jar/io/opentelemetry/sdk/correlationcontext/CorrelationContextManagerFactorySdk.java
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* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-
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* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-
  jar/io/opentelemetry/sdk/resources/ResourceConstants.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-
1.2029 zlib 1.0.2

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### 1.2030 gson 2.6.2

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* /opt/cola/permits/1001015223_1608021262.66/0/gson-2-6-2-sources-jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1001015223_1608021262.66/0/gson-2-6-2-sources-jar/com/google/gson/stream/JsonScope.java
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  * /opt/cola/permits/1001015223_1608021262.66/0/gson-2-6-2-sources-jar/com/google/gson/JsonStreamParser.java
  * /opt/cola/permits/1001015223_1608021262.66/0/gson-2-6-2-sources-jar/com/google/gson/FieldAttributes.java
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  * /opt/cola/permits/1001015223_1608021262.66/0/gson-2-6-2-sources-jar/com/google/gson/internal/bind/LazilyParsedNumber.java
  * /opt/cola/permits/1001015223_1608021262.66/0/gson-2-6-2-sources-jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
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* /opt/ cola/permits/1001015223_1608021262.66/0/gson-2-6-2-sources-jar/com/google/gson/JsonArray.java
* /opt/cola/permits/1001015223_1608021262.66/0/gson-2-6-2-sources-jar/com/google/gson/annotations/Until.java
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Found in path(s):
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* /opt/cola/permits/1001015223_1608021262.66/0/gson-2-6-2-sources-jar/com/google/gson/JsonElement.java
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1.2033 jline 2.14.3

1.2034 libcap-ng 0.7.7 1
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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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Most GNU software, including some libraries, is covered by the
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
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   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices
   stating that you changed the files and the date of any change.

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   charge to all third parties under the terms of this License.

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   table of data to be supplied by an application program that uses
   the facility, other than as an argument passed when the facility
   is invoked, then you must make a good faith effort to ensure that,
   in the event an application does not supply such function or
   table, the facility still operates, and performs whatever part of
   its purpose remains meaningful.

   (For example, a function in a library to compute square roots has
   a purpose that is entirely well-defined independent of the
   application. Therefore, Subsection 2d requires that any
   application-supplied function or table used by this function must
   be optional: if the application does not supply it, the square
   root function must still compute square roots.)

   These requirements apply to the modified work as a whole. If
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   and can be reasonably considered independent and separate works in
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   entire whole, and thus to each and every part regardless of who wrote
   it.

   Thus, it is not the intent of this section to claim rights or contest
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   exercise the right to control the distribution of derivative or
   collective works based on the Library.

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   a storage or distribution medium does not bring the other work under
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.
Dependencies with multiple licenses
-----------------------------------

Eclipse Collections API
Eclipse Distribution License - v 1.0
Eclipse Public License - v 1.0

Eclipse Collections Main Library
Eclipse Distribution License - v 1.0
Eclipse Public License - v 1.0

1.2045 libxmu 1.1.2-2
1.2045.1 Available under license:
No license file was found, but licenses were detected in source scan.

--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#!/bin/sh
+
+srcdir=`dirname $0`
+test -z "dirname $0" && srcdir=.
+
+ORIGDIR=pwd
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+    $srcdir/configure "$@"
+fi
--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+ when building in parallel (closes: #801059). Thanks, Matthias Klose!
+
+ [ Julien Cristau ]
+ * Remove Cyril from Uploaders.
+ * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 14 Nov 2015 10:04:44 +0100
+
+libxmu (2:1.1.2-1) unstable; urgency=low
+
+ * New upstream release.
+ * Add ${misc:Depends} to libxmu-headers.
+ * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ * Add build-[arch,indep] debian/rules targets.
+ * Bump debhelper compat level from 5 to 7.
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 05 May 2014 14:13:01 +0200
+
+libxmu (2:1.1.1-1) unstable; urgency=low
+
+ * New upstream release.
+ * Don't require (fake)root for debian/rules clean.
+ * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per
+ configure.ac.
+ * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call
+ from debian/rules.
+ * Remove David Nusinow from Uploaders.
+ * Bump debhelper build-dep for ${misc:Pre-Depends} usage.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 21 Apr 2012 10:50:11 +0200
+
+libxmu (2:1.1.0-3) unstable; urgency=low
+
+ * Build for multiarch.
+
+ -- Steve Langasek <vorlon@debian.org> Fri, 21 Oct 2011 14:47:59 -0700
+
+libxmu (2:1.1.0-2) unstable; urgency=low
+
+ [ Christopher James Halse Rogers ]
+ * debian/patches/01_dont_export_private_deps.patch:
+ - The Xmu.h header uses libXt symbols in a #define, so libXt is not a
+ private dep. With binutils-gold, the indirect dependency on Xt is not
+ considered when linking with Xmu so this causes build failures.
+
+ [ Julien Cristau ]
+ * Drop Pre-Depends on x11-common, only needed for upgrades from the
+ monolith.
+
+ -- Julien Cristau <jcristau@debian.org> Thu, 28 Apr 2011 14:10:11 +0200
+
+libxmu (2:1.1.0-1) unstable; urgency=low
+
+ * New upstream release.
+ * Bump xutils-dev build-dep for new macros.
+ * Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.
+ * Pass --with-xmlto and --without-fop (we want html and txt only).
+ * Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
  libxmu-headers.install file.
+ * Remove the hardcoded path to the X logo in the Xmu.html file.
+ * Kill *.xml in the doc directory, no point in shipping them.
+ * Switch from --list-missing to --fail-missing for additional safety.
+
+ -- Cyril Brulebois <kibi@debian.org> Fri, 19 Nov 2010 08:42:29 +0100
+
+libxmu (2:1.0.5-2) unstable; urgency=high
+
+ [ Cyril Brulebois ]
+ * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
  good reason. Thanks, Colin Watson!
+ * Remove myself from Uploaders
+ * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
  libxmu1-db (Closes: #594500). Thanks to Luca Falavigna for the report.
+
+ [ Cyril Brulebois ]
+ * Add myself toUploaders.
+ * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
  for the report.
+
+ -- Cyril Brulebois <kibi@debian.org> Sat, 04 Sep 2010 14:32:30 +0200
+
+libxmu (2:1.0.5-1) unstable; urgency=low
+
+ [ Timo Aaltonen ]
+ * New upstream release.
+ * Fix 64bit support (closes: #521887)
+
+ [ Julien Cristau ]
+ * Bump Standards-Version to 3.8.3.
+
+ -- Julien Cristau <jcristau@debian.org> Wed, 25 Nov 2009 19:20:17 +0100
+
+libxmu (2:1.0.4-2) unstable; urgency=low
+
+ [ Julien Cristau ]
* Drop -1 debian revisions from build-deps.
* libxmu6{,-dbg}, libxmu-dev, libxmuu1{,-dbg} and libxmuu-dev don't need a dependency on x11-common.
* Build libxmu-headers in binary-indep instead of binary-arch
  (closes: #486418). Thanks, Martin Koeppel!
* Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
* Handle parallel builds.

[ Brice Goglin ]
* Add a link to www.X.org and a reference to the upstream module in the long description.
* Add upstream URL to debian/copyright.
* Use updated xsfbs, closes: #538587.
* Move -dbg packages to section debug.

[ Timo Aaltonen ]
* Bump the epoch so that this can be synced to Ubuntu in the future.

-- Julien Cristau <jcristau@debian.org> Fri, 07 Aug 2009 14:30:36 +0200

libxmu (2:1.0.4-1) unstable; urgency=low

[ Julien Cristau ]
* New upstream release.
* Make libxmu*-dev depend on libxmu-headers (= ${source:Version}). Thanks, Josh Triplett.
* Don't export private dependencies in xmu.pc and xmuu.pc. These dependencies are handled by Requires.private.
* Due to the above, build-depend on quilt and apply the xsfbs patch rules.
* Update xsfbs to the latest version as of 2008-01-06.
* Add myself to Uploaders, and remove Branden and Fabio with their permission.
* Bump Standards-Version to 3.7.3 (no changes).

[ Timo Aaltonen ]
* Bump the epoch so that this can be synced to Ubuntu in the future.

-- Julien Cristau <jcristau@debian.org> Thu, 17 Jan 2008 14:57:47 +0100

libxmu (1:1.0.3-1) unstable; urgency=low

[ Julien Cristau ]
* New upstream release.
* Install the upstream changelog.
* Remove outdated CVS information from the package descriptions, and add XS-Vcs-Git and XS-Vcs-Browser.
* Fix package sections (libraries in libs, development stuff in libdevel).
* Use ${binary:Version} instead of ${Source-Version}.

-- Julien Cristau <jcristau@debian.org> Thu, 12 Apr 2007 13:40:07 +0200
libxmu (1:6.2.3-4) breezy; urgency=low
+ * Bump libx11-dev build-dep once more, _XOPEN_SOURCE begone!
+ -- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 10:48:14 +0000
+ libxmu (1:6.2.3-3) breezy; urgency=low
+ * Make libxmu-dev depend on libxext-dev, since libxmu links to it.
+ -- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 07:56:02 +0000
+ libxmu (1:6.2.3-2) breezy; urgency=low
+ * Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid _XOPEN_SOURCE.
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Sat, 23 Jul 2005 00:20:50 +1000
+ libxmu (1:6.2.3-1) breezy; urgency=low
+ * First libxmu release.
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 16 May 2005 22:10:17 +1000
--- libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
@@ -0,0 +1 @@
+9
--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+ dh-autoconf,
+ libx11-dev (= 1:0.99.2),
+ libxt-dev (= 1:0.99.1),
+ libxext-dev (= 1:0.99.1),
+ pkg-config,
+ quilt,
+ automake,
+ libtool,
+ xutils-dev (= 1:7.6+2),
+# devel-docs:
+ xmlto (= 0.0.22),
+ xorg-sgml-doctools (>= 1:1.8),
+ w3m,
+ Standards-Version: 3.9.6
+ Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
+ Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git
+
+ Package: libxmu6
+ Section: libs
+ Architecture: any
+ Multi-Arch: same
+ Pre-Depends: ${misc:Pre-Depends}
+ Depends: ${shlibs:Depends}, ${misc:Depends}
+ Description: X11 miscellaneous utility library
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+ Package: libxmu6-dbgsym
+ Section: debug
+ Architecture: any
+ Multi-Arch: same
+ Priority: extra
+ Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})
+ Description: X11 miscellaneous utility library (debug package)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the debug versions of the library found in libxmu6.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+ Package: libxmu-dev
+ Section: libdevel
+ Architecture: any
+ Multi-Arch: same
+ Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-
headers (= ${source:Version})
+Description: X11 miscellaneous utility library (development headers)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+
+ This package contains the development headers for the library found in
+ libxmu6. Non-developers likely have little use for this package.
+
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu1
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous micro-utility library
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu1-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
+Description: X11 miscellaneous micro-utility library (debug package)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+
+ This package contains the debug versions of the library found in libxmuu1.
+ Non-developers likely have little use for this package.
+
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+
+ This package contains the development headers for the library found in
+ libxmuu1. Non-developers likely have little use for this package.
+
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu-headers
+Section: libdevel
+Architecture: all
+Multi-Arch: foreign
+Depends:
+ libx11-dev,
+ x11proto-core-dev,
+ ${misc:Depends},
+Description: X11 miscellaneous utility library headers
+ libXmu and libXmuu are miscellaneous utility libraries for X library
+ developers to abstract some common functions. This package provides the
+ headers for both libraries (as libXmuu is a subset of libXmu), and
+ is depended upon by both. For more information, please see libxmu-dev or
+ libxmuu-dev.
+
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
--- libxmu-1.1.2.orig/debian/copyright
+++ libxmu-1.1.2/debian/copyright
@@ -0,0 +1,77 @@
+This package was downloaded from
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--- libxmu-1.1.2.orig/debian/libxmu-dev.install
+++ libxmu-1.1.2/debian/libxmu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmu.a
+usr/lib/*/libXmu.so
+usr/lib/*/pkgconfig/xmu.pc
--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu-headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1,2 @@
+usr/lib/*/libXmu.so.6*
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmuu.a
+usr/lib/*/libXmuu.so
+#export DH_VERBOSE=1
+
+PHONY: build
+build:
+dh build --with quilt,autoreconf --builddirectory=build/ --parallel
+
+%:
+dh $@ --with quilt,autoreconf --builddirectory=build/ --parallel
+
+override_dh_auto_configure:
+dh_auto_configure --
+-disable-silent-rules
+-docdir=${prefix}/share/doc/libxmu-headers
+-with-xmlto
+-without-fop
+
+override_dh_auto_install:
+dh_auto_install
+find debian/tmp/usr/share/doc/libxmu-headers -name '*.xml' -delete
+
+override_dh_install-arch:
+dh_install --fail-missing -Xusr/include -X.la
+
+override_dh_strip:
+dh_strip -Nlibxmu6 -Nlibxmuu1
+dh_strip -plibxmu6 --dbg-package=libxmu6-dbgsym
+dh_strip -plibxmuu1 --dbg-package=libxmuu1-dbgsym
--- libxmu-1.1.2.orig/debian/watch
+++ libxmu-1.1.2/debian/watch
@@ -0,0 +1,3 @@
+git=git://anongit.freedesktop.org/xorg/lib/libXmu
+version=3
+http://xorg.freedesktop.org/releases/individual/lib/ libXmu-(.*)\.tar\(\.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013987576_1591897387.78/0/libxmuu-1-1-2-2-diff-gz/libxmuu_1.1.2-2.diff

1.2046 tcp-dump 4.9.3

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1.2047 pip 20.2.1

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.2061 elasticsearch-rest-high-level-client

6.8.0

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*/
package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import java.io.IOException;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;

public class StartTrialResponse {

    private static final ConstructingObjectParser<StartTrialResponse, Void> PARSER = new ConstructingObjectParser<"start_trial_response",
true,
(Object[] arguments, Void aVoid) -> {
final boolean acknowledged = (boolean) arguments[0];
final boolean trialWasStarted = (boolean) arguments[1];
final String licenseType = (String) arguments[2];
final String errorMessage = (String) arguments[3];

@SuppressWarnings("unchecked")
final Tuple<String, Map<String, String[]>> acknowledgeDetails = (Tuple<String, Map<String, String[]>>)
arguments[4];
final String acknowledgeHeader;
final Map<String, String[]> acknowledgeMessages;

if (acknowledgeDetails != null) {
    acknowledgeHeader = acknowledgeDetails.v1();

    final boolean acknowledged = (boolean) arguments[0];
    final boolean trialWasStarted = (boolean) arguments[1];
    final String licenseType = (String) arguments[2];
    final String errorMessage = (String) arguments[3];

    @SuppressWarnings("unchecked")
    final Tuple<String, Map<String, String[]>> acknowledgeDetails = (Tuple<String, Map<String, String[]>>)
arguments[4];
    final String acknowledgeHeader;
    final Map<String, String[]> acknowledgeMessages;

    if (acknowledgeDetails != null) {
        acknowledgeHeader = acknowledgeDetails.v1();

    }
acknowledgeMessages = acknowledgeDetails.v2();

} else {
    acknowledgeHeader = null;
    acknowledgeMessages = null;
}

return new StartTrialResponse(acknowledged, trialWasStarted, licenseType, errorMessage,
    acknowledgeHeader,
    acknowledgeMessages);

static {
    PARSER.declareBoolean(constructorArg(), new ParseField("acknowledged"));
    PARSER.declareBoolean(constructorArg(), new ParseField("trial_was_started"));
    PARSER.declareString(optionalConstructorArg(), new ParseField("type"));
    PARSER.declareString(optionalConstructorArg(), new ParseField("error_message"));
    // todo consolidate this parsing with the parsing in PutLicenseResponse
    PARSER.declareObject(optionalConstructorArg(), (parser, aVoid) -> {
        final Map<String, String[]> acknowledgeMessages = new HashMap<>();
        String message = null;
        final Map<String, Object> parsedMap = parser.map();
        for (Map.Entry<String, Object> entry : parsedMap.entrySet()) {
            if (entry.getKey().equals("message")) {
                if (entry.getValue() instanceof String) {
                    message = (String) entry.getValue();
                } else {
                    throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement header type");
                }
            } else {
                if (entry.getValue() instanceof List) {
                    final List<String> messageStrings = new ArrayList<>();
                    @SuppressWarnings("unchecked")
                    final List<Object> messageObjects = (List<Object>) entry.getValue();
                    for (Object messageObject : messageObjects) {
                        if (messageObject instanceof String) {
                            messageStrings.add((String) messageObject);
                        } else {
                            throw new XContentParseException(parser.getTokenLocation(), "expected text in acknowledgement message");
                        }
                    }
                    acknowledgeMessages.put(entry.getKey(), messageStrings.toArray(new String[messageStrings.size()]));
                } else {
                    // todo consolidate this parsing with the parsing in PutLicenseResponse
                }
            }
        }
    });

    final Map<String, Object> parsedMap = parser.map();
    for (Map.Entry<String, Object> entry : parsedMap.entrySet()) {
        if (entry.getKey().equals("message")) {
            if (entry.getValue() instanceof String) {
                message = (String) entry.getValue();
            } else {
                throw new XContentParseException(parser getTokenLocation(), "unexpected acknowledgement header type");
            }
        } else {
            if (entry.getValue() instanceof List) {
                final List<String> messageStrings = new ArrayList<>();
                @SuppressWarnings("unchecked")
                final List<Object> messageObjects = (List<Object>) entry.getValue();
                for (Object messageObject : messageObjects) {
                    if (messageObject instanceof String) {
                        messageStrings.add((String) messageObject);
                    } else {
                        throw new XContentParseException(parser getTokenLocation(), "expected text in acknowledgement message");
                    }
                }
                acknowledgeMessages.put(entry.getKey(), messageStrings.toArray(new String[messageStrings.size()]));
            } else {
                // todo consolidate this parsing with the parsing in PutLicenseResponse
            }
        }
    }
}
throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement message type");
}  
}  
}  

if (message == null) {
    throw new XContentParseException(parser.getTokenLocation(), "expected acknowledgement header");
}

return new Tuple<>(message, acknowledgeMessages);
}, new ParseField("acknowledge");
}

public static StartTrialResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.apply(parser, null);
}

private final boolean acknowledged;
private final boolean trialWasStarted;
private final String licenseType;
private final String errorMessage;
private final String acknowledgeHeader;
private final Map<String, String[]> acknowledgeMessages;

public StartTrialResponse(boolean acknowledged, 
    boolean trialWasStarted, 
    String licenseType, 
    String errorMessage, 
    String acknowledgeHeader, 
    Map<String, String[]> acknowledgeMessages) {

    this.acknowledged = acknowledged;
    this.trialWasStarted = trialWasStarted;
    this.licenseType = licenseType;
    this.errorMessage = errorMessage;
    this.acknowledgeHeader = acknowledgeHeader;
    this.acknowledgeMessages = acknowledgeMessages;
}

/**
 * Returns true if the request that corresponds to this response acknowledged license changes that would occur as a
 * result of starting
 * a trial license
 */
public boolean isAcknowledged() {
    return acknowledged;
}
/**
 * Returns true if a trial license was started as a result of the request corresponding to this response. Returns false if the cluster did not start a trial, or a trial had already been started before the corresponding request was made
 */
public boolean isTrialWasStarted() {
    return trialWasStarted;
}

/**
 * If a trial license was started as a result of the request corresponding to this response (see \( @link \#isTrialWasStarted() \)) then
 * returns the type of license that was started on the cluster. Returns null otherwise
 */
public String getLicenseType() {
    return licenseType;
}

/**
 * If a trial license was not started as a result of the request corresponding to this response (see \( @link \#isTrialWasStarted() \)) then
 * returns a brief message explaining why the trial could not be started. Returns false otherwise
 */
public String getErrorMessage() {
    return errorMessage;
}

/**
 * If the request corresponding to this response did not acknowledge licensing changes that would result from starting a trial license (see \( @link \#isAcknowledged() \)), returns a message describing how the user must acknowledge licensing changes as a result of such a request. Returns null otherwise
 */
public String getAcknowledgeHeader() {
    return acknowledgeHeader;
}

/**
 * If the request corresponding to this response did not acknowledge licensing changes that would result from starting a trial license (see \( @link \#isAcknowledged() \)), returns a map. The map's keys are names of commercial Elasticsearch features, and their values are messages about how those features will be affected by licensing changes as a result of starting a trial license
 */
public Map<String, String[]> getAcknowledgeMessages() {
return acknowledgeMessages;
}

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*/

package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.ObjectParser;
import org.elasticsearch.common.xcontent.XContentParser;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;

public class GetTrialStatusResponse {

private static final ParseField ELIGIBLE_TO_START_TRIAL = new ParseField("eligible_to_start_trial");

private static final ConstructingObjectParser<GetTrialStatusResponse, Void> PARSER = new ConstructingObjectParser("get_trial_status_response", true, a -> new GetTrialStatusResponse((boolean) a[0]));

import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;

/**
 * Response class for license get trial status API
 *
 */

public class GetTrialStatusResponse {

    private static final ParseField ELIGIBLE_TO_START_TRIAL = new ParseField("eligible_to_start_trial");

    private static final ConstructingObjectParser<GetTrialStatusResponse, Void> PARSER = new ConstructingObjectParser("get_trial_status_response", true, a -> new GetTrialStatusResponse((boolean) a[0]));

    }
static {
    PARSER.declareField(constructorArg(), (parser, context) -> parser.booleanValue(),
    ELIGIBLE_TO_START_TRIAL,
    ObjectParser.ValueType.BOOLEAN);
}

private final boolean eligibleToStartTrial;

GetTrialStatusResponse(boolean eligibleToStartTrial) {
    this.eligibleToStartTrial = eligibleToStartTrial;
}

/**
 * Returns whether the license is eligible to start trial or not
 */
public boolean isEligibleToStartTrial() {
    return eligibleToStartTrial;
}

public static GetTrialStatusResponse fromXContent(XContentParser parser) {
    return PARSER.apply(parser, null);
}

@Override
public boolean equals(Object o) {
    if (this == o) {
        return true;
    }
    if (o == null || getClass() != o.getClass()) {
        return false;
    }
    GetTrialStatusResponse that = (GetTrialStatusResponse) o;
    return eligibleToStartTrial == that.eligibleToStartTrial;
}

@Override
public int hashCode() {
    return Objects.hash(eligibleToStartTrial);
}

}/*
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package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.ObjectParser;
import org.elasticsearch.common.xcontent.XContentParser;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;

/**
 * Response class for license get basic status API
 */
public class GetBasicStatusResponse {

    private static final ParseField ELIGIBLE_TO_START_BASIC = new ParseField("eligible_to_start_basic");

    private static final ConstructingObjectParser<GetBasicStatusResponse, Void> PARSER = new ConstructingObjectParser<"get_basic_status_response", true, a -> new GetBasicStatusResponse((boolean) a[0]));

    static {
        PARSER.declareField(constructorArg(), (parser, context) -> parser.booleanValue(), ELIGIBLE_TO_START_BASIC, ObjectParser.ValueType.BOOLEAN);
    }

    private final boolean eligibleToStartBasic;

    GetBasicStatusResponse(boolean eligibleToStartBasic) {
        this.eligibleToStartBasic = eligibleToStartBasic;
    }

    /**
* Returns whether the license is eligible to start basic or not
*/
public boolean isEligibleToStartBasic() {
    return eligibleToStartBasic;
}

public static GetBasicStatusResponse fromXContent(XContentParser parser) {
    return PARSER.apply(parser, null);
}

@Override
public boolean equals(Object o) {
    if (this == o) {
        return true;
    }
    if (o == null || getClass() != o.getClass()) {
        return false;
    }
    GetBasicStatusResponse that = (GetBasicStatusResponse) o;
    return eligibleToStartBasic == that.eligibleToStartBasic;
}

@Override
public int hashCode() {
    return Objects.hash(eligibleToStartBasic);
}

package org.elasticsearch.client.license;
import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.client.common.ProtocolUtils;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;

public final class PutLicenseResponse {

    private static final ConstructingObjectParser<PutLicenseResponse, Void> PARSER = new
    ConstructingObjectParser<
            "put_license_response", true, (a, v) -> {
        boolean acknowledged = (Boolean) a[0];
        LicensesStatus licensesStatus = LicensesStatus.fromString((String) a[1]);
        @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,
                Map<String, String[]>>) a[2];
        if (acknowledgements == null) {
            return new PutLicenseResponse(acknowledged, licensesStatus);
        } else {
            return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements.v1(),
                    acknowledgements.v2());
        }
    });

    static {
        PARSER.declareBoolean(constructorArg(), new ParseField("acknowledged"));
        PARSER.declareString(constructorArg(), new ParseField("license_status"));
        PARSER.declareObject(optionalConstructorArg(), (parser, v) -> {
            Map<String, String[]> acknowledgeMessages = new HashMap<>();
            String message = null;
            XContentParser.Token token;
            String currentFieldName = null;
            while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
                if (token == XContentParser.Token.FIELD_NAME) {
                    currentFieldName = parser.currentName();
                } else {
                    break; // Move to the next field
                }
            }
        });
    }
}
if (currentFieldName == null) {
    throw new XContentParseException(parser.getTokenLocation(), "expected message header or acknowledgement");
}
if ("message".equals(currentFieldName)) {
    if (token != XContentParser.Token.VALUE_STRING) {
        throw new XContentParseException(parser.getTokenLocation(), "unexpected message header type");
    }
    message = parser.text();
} else {
    if (token != XContentParser.Token.START_ARRAY) {
        throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement type");
    }
    List<String> acknowledgeMessagesList = new ArrayList<>();
    while ((token = parser.nextToken()) != XContentParser.Token.END_ARRAY) {
        if (token != XContentParser.Token.VALUE_STRING) {
            throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement text");
        }
        acknowledgeMessagesList.add(parser.text());
    }
    acknowledgeMessages.put(currentFieldName, acknowledgeMessagesList.toArray(new String[0]));
}
return new Tuple<>(message, acknowledgeMessages);

private boolean acknowledged;
private LicensesStatus status;
private Map<String, String[]> acknowledgeMessages;
private String acknowledgeHeader;

public PutLicenseResponse() {
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status) {
    this(acknowledged, status, null, Collections.<String, String[]>emptyMap());
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status, String acknowledgeHeader, 
Map<String, String[]> acknowledgeMessages) {
    this.acknowledged = acknowledged;
    this.status = status;
}
this.acknowledgeHeader = acknowledgeHeader;
this.acknowledgeMessages = acknowledgeMessages;
}

public boolean isAcknowledged() {
    return acknowledged;
}

public LicensesStatus status() {
    return status;
}

public Map<String, String[]> acknowledgeMessages() {
    return acknowledgeMessages;
}

public String acknowledgeHeader() {
    return acknowledgeHeader;
}

public static PutLicenseResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.parse(parser, null);
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    PutLicenseResponse that = (PutLicenseResponse) o;
    return status == that.status &&
           ProtocolUtils.equals(acknowledgeMessages, that.acknowledgeMessages) &&
           Objects.equals(acknowledgeHeader, that.acknowledgeHeader);
}

@Override
public int hashCode() {
    return Objects.hash(super.hashCode(), status, ProtocolUtils.hashCode(acknowledgeMessages),
                        acknowledgeHeader);
}

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*/

package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;
import static org.elasticsearch.common.xcontent.XContentParserUtils.ensureExpectedToken;

public class StartBasicResponse {

    private static final ConstructingObjectParser<StartBasicResponse, Void> PARSER = new
    ConstructingObjectParser<>(
        "start_basic_response", true, (a, v) -> {
            boolean basicWasStarted = (Boolean) a[0];
            String errorMessage = (String) a[1];
            if (basicWasStarted) {
                return new StartBasicResponse(StartBasicResponse.Status.GENERATED_BASIC);
            }
            StartBasicResponse.Status status = StartBasicResponse.Status.fromErrorMessage(errorMessage);
            @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String, Map<String, String[]>>) a[2];
            return new StartBasicResponse(status, acknowledgements.v2(), acknowledgements.v1());
        },
        optionalConstructorArg("basicWasStarted", ParseField.BOOLEAN),
        optionalConstructorArg("errorMessage", ParseField.STRING);
    );

    public StartBasicResponse(StartBasicResponse.Status status, Map<String, String[]>
            acknowledgements, Map<String, String[]>
            additionalAcknowledgements) {
        this.status = status;
        this.acknowledgements = Collections.unmodifiableMap(acknowledgements);
        this.additionalAcknowledgements = Collections.unmodifiableMap(additionalAcknowledgements);
    }

    public StartBasicResponse(StartBasicResponse.Status status, Map<String, String[]>
            acknowledgements) {
        this(status, acknowledgements, null);
    }

    public StartBasicResponse(StartBasicResponse.Status status) {
        this(status, Collections.emptyMap());
    }

    public StartBasicResponse() {
        this(null);
    }

    public static final class Status {
        public static final StartBasicResponse.Status GENERATED_BASIC = new StartBasicResponse.Status("generated_basic");
        public static final StartBasicResponse.Status ANYTHING_ELSE = new StartBasicResponse.Status(null);

        private final String value;

        private Status(String value) {
            this.value = value;
        }

        public boolean isGeneratedBasic() {
            return value.equals("generated_basic");
        }

        public boolean isAnythingElse() {
            return value == null;
        }

        public String value() {
            return value;
        }

        public static StartBasicResponse.Status fromErrorMessage(String errorMessage) {
            if ("generated_basic".equals(errorMessage)) {
                return GENERATED_BASIC;
            }
            if (errorMessage == null) {
                return ANYTHING_ELSE;
            }
            throw new IllegalArgumentException("Invalid error message: ", errorMessage);
        }
    }

    public String status() {
        return status.value();
    }

    public boolean basicWasStarted() {
        return basicWasStarted;
    }

    public String errorMessage() {
        return errorMessage;
    }

    public Map<String, String[]> acknowledgements() {
        return acknowledgements;
    }

    public Map<String, String[]> additionalAcknowledgements() {
        return additionalAcknowledgements;
    }

    public void addAck(String name, String[] value) {
        Map<String, String[]> map = this.acknowledgements;
        if (map == null) {
            this.acknowledgements = Collections.singletonMap(name, value);
        } else {
            Map<String, String[]> newMap = new HashMap<>(map);
            newMap.put(name, value);
            this.acknowledgements = newMap;
        }
    }

    public void addAdditionalAck(String name, String[] value) {
        Map<String, String[]> map = this.additionalAcknowledgements;
        if (map == null) {
            this.additionalAcknowledgements = Collections.singletonMap(name, value);
        } else {
            Map<String, String[]> newMap = new HashMap<>(map);
            newMap.put(name, value);
            this.additionalAcknowledgements = newMap;
        }
    }

    public static StartBasicResponse parse(XContentParser parser) throws IOException, XContentParseException {
        return PARSER.parse(parser, null);
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null || getClass() != obj.getClass()) {
            return false;
        }
        StartBasicResponse that = (StartBasicResponse) obj;
        return Objects.equals(status, that.status) && Objects.equals(basicWasStarted, that.basicWasStarted) && Objects.equals(errorMessage, that.errorMessage);'

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static {
    PARSER.declareBoolean(constructorArg(), new ParseField("basic_was_started"));
    PARSER.declareString(optionalConstructorArg(), new ParseField("error_message"));
    PARSER.declareObject(optionalConstructorArg(), (parser, v) -> {
        Map<String, String[]> acknowledgeMessages = new HashMap<>();
        String message = null;
        XContentParser.Token token;
        String currentFieldName = null;
        while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
            if (token == XContentParser.Token.FIELD_NAME) {
                currentFieldName = parser.currentName();
            } else {
                if (currentFieldName == null) {
                    throw new XContentParseException(parser.getTokenLocation(), "expected message header or acknowledgement");
                }
                if (new ParseField("message").getPreferredName().equals(currentFieldName)) {
                    ensureExpectedToken(XContentParser.Token.VALUE_STRING, token, parser::getTokenLocation);
                    message = parser.text();
                } else {
                    if (token != XContentParser.Token.START_ARRAY) {
                        throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement type");
                    }
                    List<String> acknowledgeMessagesList = new ArrayList<>();
                    while ((token = parser.nextToken()) != XContentParser.Token.END_ARRAY) {
                        ensureExpectedToken(XContentParser.Token.VALUE_STRING, token, parser::getTokenLocation);
                        acknowledgeMessagesList.add(parser.text());
                    }
                    acknowledgeMessages.put(currentFieldName, acknowledgeMessagesList.toArray(new String[0]));
                }
            }
        }
        return new Tuple<>(message, acknowledgeMessages);}
}, new ParseField("acknowledge"));

private Map<String, String[]> acknowledgeMessages;
private String acknowledgeMessage;

public enum Status {
    GENERATED_BASIC(true, null),
    ALREADY_USING_BASIC(false, "Operation failed: Current license is basic."),
    NEED_ACKNOWLEDGEMENT(false, "Operation failed: Needs acknowledgement.");
}
package com.example;

import com.example.model.Status;
import com.example.model.StartBasicResponse.Status;
import com.example.util.Validator;

public class StartBasicResponse {

    private final Status status;

    private StartBasicResponse(Status status) {
        this(status, Collections.emptyMap(), null);
    }

    private StartBasicResponse(Status status, Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
        this.status = status;
        this.acknowledgeMessages = acknowledgeMessages;
        this.acknowledgeMessage = acknowledgeMessage;
    }

    public Status getStatus() {
        return status;
    }

    public boolean isAcknowledged() {
        return status != Status.NEED_ACKNOWLEDGEMENT;
    }

    public boolean isBasicStarted() {
        return status.isBasicStarted;
    }

    public String getErrorMessage() {
        return status.errorMessage;
    }

    public static StartBasicResponse.Status fromErrorMessage(final String errorMessage) {
        final StartBasicResponse.Status[] values = StartBasicResponse.Status.values();
        for (StartBasicResponse.Status status : values) {
            if (Validator.equals(status.errorMessage, errorMessage)) {
                return status;
            }
        }
        throw new IllegalArgumentException("No status for error message ['" + errorMessage + "]");
    }

    private final boolean isBasicStarted;
    private final String errorMessage;

    Status(boolean isBasicStarted, String errorMessage) {
        this.isBasicStarted = isBasicStarted;
        this.errorMessage = errorMessage;
    }

    static StartBasicResponse.Status fromErrorMessage(final String errorMessage) {
        final StartBasicResponse.Status[] values = StartBasicResponse.Status.values();
        for (StartBasicResponse.Status status : values) {
            if (Objects.equals(status.errorMessage, errorMessage)) {
                return status;
            }
        }
        throw new IllegalArgumentException("No status for error message ['" + errorMessage + "]");
    }
}
public String getAcknowledgeMessage() {
    return acknowledgeMessage;
}

public Map<String, String[]> getAcknowledgeMessages() {
    return acknowledgeMessages;
}

public static StartBasicResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.parse(parser, null);
}

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package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class StartBasicRequest extends TimedRequest {
    private final boolean acknowledge;

    public StartBasicRequest() {
        this(false);
    }

    public StartBasicRequest(boolean acknowledge) {
        this.acknowledge = acknowledge;
    }

    public boolean isAcknowledge() {
        return acknowledge;
    }
package org.elasticsearch.client.license;

public class GetLicenseResponse {

    private String license;

    GetLicenseResponse() {
    }

    public GetLicenseResponse(String license) {
        this.license = license;
    }

    public String getLicenseDefinition() {
        return license;
    }

    }

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package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class DeleteLicenseRequest extends TimedRequest {
    // Class implementation
}

package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class PutLicenseRequest extends TimedRequest {
    private String licenseDefinition;
    private boolean acknowledge = false;

    public PutLicenseRequest() {
    }

    public void setLicenseDefinition(String licenseDefinition) {
        this.licenseDefinition = licenseDefinition;
    }

    public void setLicenseDefinition(String licenseDefinition) {
        this.licenseDefinition = licenseDefinition;
    }
}
public String getLicenseDefinition() {
    return licenseDefinition;
}

public void setAcknowledge(boolean acknowledge) {
    this.acknowledge = acknowledge;
}

public boolean isAcknowledge() {
    return acknowledge;
}

package org.elasticsearch.client.license;

import org.elasticsearch.client.Validatable;

public class GetLicenseRequest implements Validatable {
    protected boolean local = false;

    public GetLicenseRequest() {
    }

    public boolean isLocal() {
        return local;
    }

    public class GetLicenseRequest implements Validatable {
        protected boolean local = false;

        public GetLicenseRequest() {
        }

        public boolean isLocal() {
            return local;
        }
    }
public void setLocal(boolean local) {
    this.local = local;
}
}
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 */
package org.elasticsearch.client.license;
import java.util.Locale;
public enum LicensesStatus {
    VALID((byte) 0),
    INVALID((byte) 1),
    EXPIRED((byte) 2);

    private final byte id;

    LicensesStatus(byte id) {
        this.id = id;
    }

    public int id() {
        return id;
    }

    public static LicensesStatus fromId(int id) {
        if (id == 0) {
            return VALID;
        } else if (id == 1) {
            return INVALID;
        } else if (id == 2) {
            return EXPIRED;
        }
} else {
    throw new IllegalStateException("no valid LicensesStatus for id=" + id);
}

@Override
public String toString() {
    return this.name().toLowerCase(Locale.ROOT);
}

public static LicensesStatus fromString(String value) {
    switch (value) {
    case "valid":
        return VALID;
    case "invalid":
        return INVALID;
    case "expired":
        return EXPIRED;
    default:
        throw new IllegalArgumentException("unknown licenses status [" + value + "]");
    }
}

package org.elasticsearch.client.license;

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 */

/**
 * Request and Response objects for the default distribution's License
 * APIs.
 */
package org.elasticsearch.client.license;
package org.elasticsearch.client.license;

/**
* Status of an X-Pack license.
*/
public enum LicenseStatus {

    ACTIVE("active"),
    INVALID("invalid"),
    EXPIRED("expired");

    private final String label;

    LicenseStatus(String label) {
        this.label = label;
    }

    public String label() {
        return label;
    }

    public static LicenseStatus fromString(String value) {
        switch (value) {
            case "active":
                return ACTIVE;
            case "invalid":
                return INVALID;
            case "expired":
                return EXPIRED;
            default:
                return ACTIVE;
        }
    }
}
throw new IllegalArgumentException("unknown license status [" + value + "]");
}
}
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*/

package org.elasticsearch.client.license;

import org.elasticsearch.client.Validatable;
import org.elasticsearch.common.Nullable;

public class StartTrialRequest implements Validatable {

    private final boolean acknowledge;
    private final String licenseType;

    public StartTrialRequest() {
        this(false);
    }

    public StartTrialRequest(boolean acknowledge) {
        this(acknowledge, null);
    }

    public StartTrialRequest(boolean acknowledge, @Nullable String licenseType) {
        this.acknowledge = acknowledge;
        this.licenseType = licenseType;
    }

    public boolean isAcknowledge() {
        return acknowledge;
    }

}
public String getLicenseType() {
    return licenseType;
}

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z.

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    src/preproc/grn/hdb.cpp
    src/preproc/grn/hgraph.cpp
    src/preproc/grn/hpoint.cpp
    src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

    src/devices/xditview/DESC.in
    src/devices/xditview/Dvi.c
    src/devices/xditview/Dvi.h
    src/devices/xditview/DviP.h
    src/devices/xditview/FontMap
    src/devices/xditview/GXditview.ad
    src/devices/xditview/Menu.h
    src/devices/xditview/ad2c
    src/devices/xditview/device.c
    src/devices/xditview/device.h
    src/devices/xditview/draw.c
    src/devices/xditview/font.c
    src/devices/xditview/gray1.bm
    src/devices/xditview/gray2.bm
    src/devices/xditview/gray3.bm
    src/devices/xditview/gray4.bm
    src/devices/xditview/gray5.bm
    src/devices/xditview/gray6.bm
    src/devices/xditview/gray7.bm
    src/devices/xditview/gray8.bm
    src/devices/xditview/gxditview.man
    src/devices/xditview/lex.c
    src/devices/xditview/page.c
    src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
`hyphen.uk'.

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The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyph-t-x-2017-03-31.pat' and `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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Some files from the tests folder are from joyent/node and mscedex/io.js, a fork of nodejs/io.js:

- tests/iojs/test-http-parser-durability.js


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- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
tests/test.py
tests/utils.py

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VendorUrl: https://github.com/estools/esutils
regjsparser@0.6.4
URL: git@github.com:jviereck/regjsparser.git
VendorName: 'Julian Viereck'
VendorUrl: https://github.com/jviereck/regjsparser
terser@5.3.2
URL: https://github.com/terser/terser
VendorName: Mihai Bazon
VendorUrl: https://terser.org/
uri-js@4.4.0
URL: http://github.com/garycourt/uri-js
VendorName: Gary Court
VendorUrl: https://github.com/garycourt/uri-js
webidl-conversions@3.0.1
URL: https://github.com/jsdom/webidl-conversions.git
VendorName: Domenic Denicola
VendorUrl: https://domenic.me/

BSD-3-Clause
@protobufjs/aspromise@1.1.2
URL: https://github.com/dcodeIO/protobuf.js.git
VendorName: Daniel Wirtz
@protobufjs/base64@1.1.2
URL: https://github.com/dcodeIO/protobuf.js.git
VendorName: Daniel Wirtz
@protobufjs/codegen@2.0.4
URL: https://github.com/dcodeIO/protobuf.js.git
VendorName: Daniel Wirtz
@protobufjs/eventemitter@1.1.0
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@protobufjs/fetch@1.1.0
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@protobufjs/float@1.0.2
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@protobufjs/path@1.1.2
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@protobufjs/pool@1.1.0
URL: https://github.com/dcodeIO/protobuf.js.git
VendorName: Daniel Wirtz
@protobufjs/utf8@1.1.0
URL: https://github.com/dcodeIO/protobuf.js.git
VendorName: Daniel Wirtz
@sentry/browser@5.29.0
URL: git://github.com/getsentry/sentry-javascript.git
VendorName: Sentry
VendorUrl: https://github.com/getsentry/sentry-javascript/tree/master/packages/browser
@sentry/core@5.29.0
URL: git://github.com/getsentry/sentry-javascript.git
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VendorUrl: https://github.com/getsentry/sentry-javascript/tree/master/packages/core
@sentry/hub@5.27.0
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URL: git://github.com/getsentry/sentry-javascript.git

ANTLR 4@4.8.0
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bcrypt-pbkdf@1.0.2
VendorUrl: git://github.com/joyent/node-bcrypt-pbkdf.git

buffer-equal-constant-time@1.0.1
VendorUrl: git@github.com:goinstant/buffer-equal-constant-time.git

VendorName: GoInstant Inc., a salesforce.com company

d3@3.5.17
VendorName: Mike Bostock
VendorUrl: http://d3js.org/

exenv@1.2.2
VendorName: Jed Watson
VendorUrl: https://github.com/JedWatson/exenv.git

hoist-non-react-statics@2.5.5
VendorName: Michael Ridgway
VendorUrl: https://github.com/mridgway/hoist-non-react-statics.git

hoist-non-react-statics@3.3.2
VendorName: Michael Ridgway
VendorUrl: https://github.com/mridgway/hoist-non-react-statics.git

moo@0.4.3
VendorName: Tim Radvan
VendorUrl: https://github.com/tjvr/moo.git

moo@0.5.1
VendorName: Tim Radvan
VendorUrl: https://github.com/tjvr/moo.git

protobufjs@6.10.1
VendorName: Daniel Wirtz
VendorUrl: https://github.com/protobufjs/protobuf.js.git
VendorUrl: http://dcode.io/protobuf.js
qs@6.5.2
URL: https://github.com/ljharb/qs.git
VendorUrl: https://github.com/ljharb/qs
source-map@0.5.7
URL: http://github.com/mozilla/source-map.git
VendorName: Nick Fitzgerald
VendorUrl: https://github.com/mozilla/source-map
source-map@0.6.1
URL: http://github.com/mozilla/source-map.git
VendorName: Nick Fitzgerald
VendorUrl: https://github.com/mozilla/source-map
tough-cookie@2.5.0
URL: git://github.com/salesforce/tough-cookie.git
VendorName: Jeremy Stashewsky
VendorUrl: https://github.com/salesforce/tough-cookie

BSD*
json-schema@0.2.3
URL: http://github.com/kriszyp/json-schema
VendorName: Kris Zyp
CC0-1.0
railroad-diagrams@1.0.0
URL: https://github.com/tabatkins/railroad-diagrams.git
VendorName: Tab Atkins Jr.
VendorUrl: https://github.com/tabatkins/railroad-diagrams

GPL-3.0
cypher-codemirror@1.1.7
URL: git://github.com/neo4j-contrib/cypher-editor.git
VendorName: Neo Technology Inc.
cypher-editor-support@1.1.7
URL: git://github.com/neo4j-contrib/cypher-editor.git
VendorName: Neo Technology Inc.

ISC
abab@1.0.4
URL: git+https://github.com/jsdom/abab.git
VendorName: Jeff Carpenter
VendorUrl: https://github.com/jsdom/abab#readme
cliui@6.0.0
URL: http://github.com/yargs/cliui.git
VendorName: Ben Coe
css-color-keywords@1.0.0
URL: https://github.com/sonicdoe/css-color-keywords.git
VendorName: Jakob Krigovsky
get-caller-file@2.0.5
URL: git+https://github.com/stefanpenner/get-caller-file.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/get-caller-file#readme
har-schema@2.0.0
URL: https://github.com/eemeli/yaml.git
VendorName: Eemeli Aro
VendorUrl: https://eemeli.org/yaml/
yargs-parser@18.1.3
URL: https://github.com/yargs/yargs-parser.git
VendorName: Ben Coe
MIT
@apollo/client@3.2.0
URL: git+https://github.com/apollographql/apollo-client.git
VendorName: opensource@apollographql.com
VendorUrl: https://www.apollographql.com/
@babel/code-frame@7.10.4
URL: https://github.com/babel/babel.git
VendorName: Sebastian McKenzie
VendorUrl: https://babeljs.io/
@babel/core@7.11.6
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@babel/helper-annotate-as-pure@7.10.4
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@babel/helper-get-function-arity@7.10.4
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URL: https://github.com/babel/babel.git
VendorName: Justin Ridgewell
@babel/helper-module-imports@7.10.4
URL: https://github.com/babel/babel.git
VendorName: Logan Smyth
VendorUrl: https://babeljs.io/
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VendorUrl: https://babeljs.io/
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@babel/helper-plugin-utils@7.10.4
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VendorName: Logan Smyth
VendorUrl: https://babeljs.io/
@babel/helper-replace-supers@7.10.4
URL: https://github.com/babel/babel.git
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VendorUrl: https://babeljs.io/

@babel/helper-split-export-declaration@7.11.0
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@babel/helper-validator-identifier@7.10.4
URL: https://github.com/babel/babel.git

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VendorName: Sebastian McKenzie
VendorUrl: https://babeljs.io/

@babel/highlight@7.10.4
URL: https://github.com/babel/babel.git
VendorName: suchipi
VendorUrl: https://babeljs.io/

@babel/parser@7.11.5
URL: https://github.com/babel/babel.git
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VendorUrl: https://babeljs.io/

@babel/plugin-proposal-object-rest-spread@7.11.0
URL: https://github.com/babel/babel.git

@babel/plugin-syntax-jsx@7.10.4
URL: https://github.com/babel/babel.git

@babel/plugin-syntax-object-rest-spread@7.8.3
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@babel/plugin-transform-parameters@7.10.5
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VendorUrl: https://babeljs.io/

@babel/template@7.10.4
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VendorUrl: https://babeljs.io/

@babel/traverse@7.11.5
URL: https://github.com/babel/babel.git
VendorName: Sebastian McKenzie
VendorUrl: https://babeljs.io/

@babel/types@7.11.5
URL: https://github.com/babel/babel.git
VendorName: Sebastian McKenzie
VendorUrl: https://babeljs.io/

@emotion/cache@10.0.29
URL: https://github.com/emotion-js/emotion/tree/master/packages/cache

@emotion/core@10.0.10
URL: https://github.com/emotion-js/emotion/tree/master/packages/core
VendorName: mitchellhamilton
@emotion/css@10.0.27
URL: https://github.com/emotion-js/emotion/tree/master/packages/css
@emotion/hash@0.8.0
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@emotion/is-prop-valid@0.8.8
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@emotion/memoize@0.7.4
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@emotion/serialize@0.11.16
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@emotion/styled-base@10.0.31
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@emotion/stylis@0.8.5
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@emotion/unitless@0.7.5
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@emotion/utils@0.11.1
URL: https://github.com/emotion-js/emotion/tree/master/packages/serialize
@emotion/utils@0.11.3
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@emotion/weak-memoize@0.2.5
URL: https://github.com/emotion-js/emotion/tree/master/packages/weak-memoize
@graphql-typed-document-node/core@3.1.0
URL: git@github.com:dotansimha/graphql-typed-document-node.git
VendorName: Dotan Simha
@literal-jsx/parser@0.1.7
URL: https://github.com/kelleyvanevert/literal-jsx.git
VendorName: Kelley van Evert
VendorUrl: https://literal-jsx.org/
@mdx-js/mdx@1.6.18
URL: https://github.com/mdx-js/mdx.git
VendorName: John Otander
VendorUrl: https://mdxjs.com/
@mdx-js/react@1.6.18
URL: https://github.com/mdx-js/mdx.git
VendorName: John Otander
VendorUrl: https://mdxjs.com/
@mdx-js/runtime@1.6.18
URL: https://github.com/mdx-js/mdx.git
VendorName: John Otander
VendorUrl: https://mdxjs.com/
URL: git://github.com/TooTallNate/node-agent-base.git
VendorName: Nathan Rajlich
VendorUrl: http://n8.io/

ajv@6.12.5
URL: https://github.com/ajv-validator/ajv.git
VendorName: Evgeny Poberezkin
VendorUrl: https://github.com/ajv-validator/ajv

ansi-regex@5.0.0
URL: https://github.com/chalk/ansi-regex.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

ansi-styles@3.2.1
URL: https://github.com/chalk/ansi-styles.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

ansi-styles@4.2.1
URL: https://github.com/chalk/ansi-styles.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

apollo-upload-client@14.1.2
URL: https://github.com/jaydenseric/apollo-upload-client.git
VendorName: Jayden Seric
VendorUrl: https://github.com/jaydenseric/apollo-upload-client#readme

array-equal@1.0.0
URL: https://github.com/component/array-equal.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com

arrify@2.0.1
URL: https://github.com/sindresorhus/arrify.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

asap@2.0.6
URL: https://github.com/kriskowal/asap.git

ascii-data-table@2.1.1
URL: https://github.com/oskarhane/ascii-data-table.git
VendorName: Oskar Hane
VendorUrl: http://oskarhane.com/

asn1@0.2.4
URL: git://github.com/joyent/node-asn1.git
VendorName: Joyent
VendorUrl: joyent.com

assert-plus@1.0.0
URL: https://github.com/mcavage/node-assert-plus.git
VendorName: Mark Cavage
VendorUrl: mcavage.com

asynckit@0.4.0
URL: git+https://github.com/alexindigo/asynckit.git
VendorName: Alex Indigo
VendorUrl: https://github.com/alexindigo/asynckit#readme
color-name@1.1.3  
URL: git@github.com:dfcreative/color-name.git  
VendorName: DY  
VendorUrl: https://github.com/dfcreative/color-name

color-name@1.1.4  
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VendorUrl: https://github.com/colorjs/color-name

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VendorUrl: https://github.com/colorjs/color-name

combined-stream@1.0.8  
URL: git://github.com/felixge/node-combined-stream.git  
VendorName: Felix Geisendrfer  
VendorUrl: https://github.com/felixge/node-combined-stream

comma-separated-tokens@1.0.8  
URL: https://github.com/wooorm/comma-separated-tokens.git  
VendorName: Titus Wormer  
VendorUrl: https://wooorm.com

comma-separated-tokens@1.0.8  
URL: https://github.com/wooorm/comma-separated-tokens.git  
VendorName: Titus Wormer  
VendorUrl: https://wooorm.com

core-js@2.6.11  
URL: https://github.com/zloirock/core-js.git  
VendorName: Thorsten Lorenz  
VendorUrl: https://github.com/zloirock/core-js

core-js@3.6.5  
URL: https://github.com/zloirock/core-js.git  
VendorName: Thorsten Lorenz  
VendorUrl: https://github.com/zloirock/core-js

core-util-is@1.0.2  
URL: git://github.com/isaacs/core-util-is  
VendorName: Isaac Z. Schlueter  
VendorUrl: http://blog.izs.me/

cosmiconfig@6.0.0  
URL: git+https://github.com/davidtheclark/cosmiconfig.git  
VendorName: David Clark  
VendorUrl: https://github.com/davidtheclark/cosmiconfig#readme

cosmiconfig@6.0.0  
URL: git+https://github.com/davidtheclark/cosmiconfig.git  
VendorName: David Clark  
VendorUrl: https://github.com/davidtheclark/cosmiconfig#readme

css-to-react-native@2.3.2  
URL: git+https://github.com/styled-components/css-to-react-native.git  
VendorName: Jacob Parker  
VendorUrl: https://github.com/styled-components/css-to-react-native#readme

css-to-react-native@2.3.2  
URL: git+https://github.com/styled-components/css-to-react-native.git  
VendorName: Jacob Parker  
VendorUrl: https://github.com/styled-components/css-to-react-native#readme

cssstyle@0.2.37  
URL: https://github.com/chad3814/CSSStyleDeclaration.git  
VendorName: Nikita Vasilyev  
VendorUrl: https://github.com/chad3814/CSSStyleDeclaration

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URL: https://github.com/chad3814/CSSStyleDeclaration.git  
VendorName: Nikita Vasilyev  
VendorUrl: https://github.com/chad3814/CSSStyleDeclaration
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  URL: https://github.com/frenic/csstype
  VendorName: Fredrik Nicol
csstype@3.0.3
  URL: https://github.com/frenic/csstype
  VendorName: Fredrik Nicol
dashdash@1.14.1
  URL: git://github.com/trentm/node-dashdash.git
  VendorName: Trent Mick
  VendorUrl: http://trentm.com
dateformat@3.0.3
  URL: https://github.com/felixge/node-dateformat.git
  VendorName: Steven Levithan
  VendorUrl: https://github.com/felixge/node-dateformat
debug@4.1.1
  URL: git://github.com/visionmedia/debug.git
  VendorName: TJ Holowaychuk
decamelize@1.2.0
  URL: https://github.com/sindresorhus/decamelize.git
  VendorName: Sindre Sorhus
  VendorUrl: sindresorhus.com
deep-equal@1.1.1
  URL: http://github.com/substack/node-deep-equal.git
  VendorName: James Halliday
  VendorUrl: http://substack.net
deep-is@0.1.3
  URL: http://github.com/thlorenz/deep-is.git
  VendorName: Thorsten Lorenz
  VendorUrl: http://thlorenz.com
deepmerge@2.2.1
  URL: git://github.com/KyleAMathews/deepmerge.git
  VendorName: Nick Fisher
  VendorUrl: https://github.com/KyleAMathews/deepmerge
depmerge@3.3.0
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define-properties@1.1.3
  URL: git://github.com/ljharb/define-properties.git
  VendorName: Jordan Harband
delayed-stream@1.0.0
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  VendorName: Felix Geisendrfer
  VendorUrl: https://github.com/felixge/node-delayed-stream
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  URL: https://github.com/wooorm/detab.git
  VendorName: Titus Wormer
  VendorUrl: https://wooorm.com
discontinuous-range@1.0.0
URL: git://github.com/davepacheco/node-extsprintf.git
faker@4.1.0
URL: http://github.com/Marak/Faker.js.git
fast-deep-equal@3.1.3
URL: git+https://github.com/epoberezkin/fast-deep-equal.git
VendorName: Evgeny Poberezkin
VendorUrl: https://github.com/epoberezkin/fast-deep-equal#readme
fast-json-stable-stringify@2.1.0
URL: git://github.com/epoberezkin/fast-json-stable-stringify.git
VendorName: James Halliday
VendorUrl: https://github.com/epoberezkin/fast-json-stable-stringify#readme
fast-levenshtein@2.0.6
URL: https://github.com/hiddentao/fast-levenshtein.git
VendorName: Ramesh Nair
VendorUrl: http://www.hiddentao.com/
file-saver@1.3.8
URL: git+https://github.com/eligrey/FileSaver.js.git
VendorName: Eli Grey
VendorUrl: https://github.com/eligrey/FileSaver.js#readme
find-root@1.1.0
URL: git@github.com:js-n/find-root.git
VendorName: jsdnxx
find-up@4.1.0
URL: https://github.com/sindresorhus/find-up.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
form-data@2.3.3
URL: git://github.com/form-data/form-data.git
VendorName: Felix Geisendrfer
VendorUrl: http://debuggable.com/
function-bind@1.1.1
URL: git://github.com/Raynos/function-bind.git
VendorName: Raynos
VendorUrl: https://github.com/Raynos/function-bind
fuzzaldrin@2.1.0
URL: https://github.com/atom/fuzzaldrin.git
VendorUrl: http://atom.github.io/fuzzaldrin
gensync@1.0.0-beta.1
VendorName: Logan Smyth
getpass@0.1.7
URL: https://github.com/arekinath/node-getpass.git
VendorName: Alex Wilson
globals@11.12.0
URL: https://github.com/sindresorhus/globals.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
googlep12-pem@3.0.3
URL: https://github.com/google/googlep12-pem
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hastscript@5.1.2
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    VendorName: Tim Caswell
    VendorUrl: https://github.com/creationix
http-signature@1.2.0
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    VendorName: Joyent, Inc
    VendorUrl: https://github.com/joyent/node-http-signature/
https-proxy-agent@5.0.0
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    VendorName: Nathan Rajlich
    VendorUrl: http://n8.io/
iconv-lite@0.4.24
    URL: git://github.com/ashtuchkin/iconv-lite.git
    VendorName: Alexander Shtuchkin
    VendorUrl: https://github.com/ashtuchkin/iconv-lite
iconv-lite@0.6.2
    URL: git://github.com/ashtuchkin/iconv-lite.git
    VendorName: Alexander Shtuchkin
    VendorUrl: https://github.com/ashtuchkin/iconv-lite
immediate@3.0.6
    URL: git://github.com/calvinmetcalf/immediate.git
import-fresh@3.2.1
    URL: https://github.com/sindresorhus/import-fresh.git
    VendorName: Sindre Sorhus
    VendorUrl: sindresorhus.com
inline-style-parser@0.1.1
    URL: https://github.com/remarkablemark/inline-style-parser
invariant@2.2.4
    URL: https://github.com/zertosh/invariant
    VendorName: Andres Suarez
is-alphabetical@1.0.4
    URL: https://github.com/wooorm/is-alphabetical.git
    VendorName: Titus Wormer
    VendorUrl: https://wooorm.com
is-alphanumerical@1.0.4
    URL: https://github.com/wooorm/is-alphanumerical.git
    VendorName: Titus Wormer
    VendorUrl: https://wooorm.com
VendorName: Mathias Bynens
VendorUrl: https://mths.be/jsesc
json-bigint@1.0.0
URL: git@github.com:sidorares/json-bigint.git
VendorName: Andrey Sidorov
json-parse-even-better-errors@2.3.1
URL: https://github.com/npm/json-parse-even-better-errors
VendorName: Kat Marchn
json-schema-traverse@0.4.1
URL: git+https://github.com/epoberezkin/json-schema-traverse.git
VendorName: Evgeny Poberezkin
VendorUrl: https://github.com/epoberezkin/json-schema-traverse#readme
json5@2.1.3
URL: git+https://github.com/json5/json5.git
VendorName: Aseem Kishore
VendorUrl: http://json5.org/
jsonic@0.3.1
URL: git://github.com/rjrodger/jsonic.git
VendorName: Richard Rodger
VendorUrl: https://github.com/rjrodger/jsonic
jsprim@1.4.1
URL: git://github.com/joyent/node-jsprim.git
jwa@2.0.0
URL: git://github.com/brianloveswords/node-jwa.git
VendorName: Brian J. Brennan
jws@4.0.0
URL: git://github.com/brianloveswords/node-jws.git
VendorName: Brian J Brennan
keyboard-key@1.1.0
URL: git+ssh://github.com/levithomason/keyboard-key.git
VendorName: Levi Thomason
levn@0.3.0
URL: git://github.com/gkz/levn.git
VendorName: George Zahariev
VendorUrl: https://github.com/gkz/levn
lie@3.1.1
URL: https://github.com/calvinmetcalf/lie.git
lie@3.3.0
URL: https://github.com/calvinmetcalf/lie.git
lines-and-columns@1.1.6
URL: https://github.com/eventualbuddha/lines-and-columns.git
VendorName: Brian Donovan
VendorUrl: https://github.com/eventualbuddha/lines-and-columns#readme
locate-path@5.0.0
URL: https://github.com/sindresorhus/locate-path.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
lodash-es@4.17.15
object-keys@1.1.1
URL: git://github.com/ljharb/object-keys.git
VendorName: Jordan Harband
VendorUrl: http://ljharb.codes

object.assign@4.1.1
URL: git://github.com/ljharb/object.assign.git
VendorName: Jordan Harband

optimism@0.12.1
URL: git+https://github.com/benjamn/optimism.git
VendorName: Ben Newman
VendorUrl: https://github.com/benjamn/optimism#readme

optionator@0.8.3
URL: git://github.com/gkz/optionator.git
VendorName: George Zahariev
VendorUrl: https://github.com/gkz/optionator

p-limit@2.3.0
URL: https://github.com/sindresorhus/p-limit.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

p-locate@4.1.0
URL: https://github.com/sindresorhus/p-locate.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

p-try@2.2.0
URL: https://github.com/sindresorhus/p-try.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

count-validator@0.12.1
URL: https://github.com/sindresorhus/count-validator.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

parse5@1.5.1
URL: git://github.com/inikulin/parse5.git
VendorName: Ivan Nikulin
VendorUrl: http://inikulin.github.io/parse5/

parse5@6.0.1
URL: git://github.com/inikulin/parse5.git
VendorName: Ivan Nikulin
VendorUrl: https://github.com/inikulin/parse5
path-exists@4.0.0
URL: https://github.com/sindresorhus/path-exists.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

path-parse@1.0.6
URL: https://github.com/jbgutierrez/path-parse.git
VendorName: Javier Blanco
VendorUrl: https://github.com/jbgutierrez/path-parse#readme

path-type@4.0.0
URL: https://github.com/sindresorhus/path-type.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

performance-now@2.1.0
URL: git://github.com/braveg1rl/performance-now.git
VendorName: Braveg1rl
VendorUrl: https://github.com/braveg1rl/performance-now

popper.js@1.16.1
URL: git+https://github.com/FezVrasta/popper.js.git
VendorName: Federico Zivolo
VendorUrl: https://popper.js.org/

postcss-value-parser@3.3.1
URL: https://github.com/TrySound/postcss-value-parser.git
VendorName: Bogdan Chadkin
VendorUrl: https://github.com/TrySound/postcss-value-parser

prelude-ls@1.1.2
URL: git://github.com/gkz/prelude-ls.git
VendorName: George Zahariev
VendorUrl: http://prelude.ls.com/

process-nextick-args@2.0.1
URL: https://github.com/calvinmetcalf/process-nextick-args.git
VendorUrl: https://github.com/calvinmetcalf/process-nextick-args

promise-polyfill@8.1.3
URL: https://github.com/taylorhakes/promise-polyfill.git
VendorName: Taylor Hakes
VendorUrl: https://github.com/taylorhakes/promise-polyfill

prop-types@15.7.2
URL: https://github.com/facebook/prop-types.git
VendorUrl: https://facebook.github.io/react/

property-information@5.5.0
URL: https://github.com/wooorm/property-information.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com

psl@1.8.0
URL: git@github.com:lupomontero/psl.git
VendorName: Lupo Montero
VendorUrl: https://lupomontero.com/

punycode@2.1.1
URL: https://github.com/bestiejs/punycode.js.git
VendorName: Mathias Bynens
VendorUrl: https://mths.be/punycode
querystringify@2.2.0
URL: https://github.com/unshiftio/querystringify
VendorName: Arnout Kazemier
VendorUrl: https://github.com/unshiftio/querystringify
randexp@0.4.6
URL: git://github.com/fent/randexp.js.git
VendorName: Roly Fentanes
VendorUrl: http://fent.github.io/randexp.js/
react-dnd-html5-backend@9.3.2
URL: https://github.com/react-dnd/react-dnd.git
react-dnd@9.3.2
URL: https://github.com/react-dnd/react-dnd.git
react-dom@16.13.1
URL: https://github.com/facebook/react.git
VendorUrl: https://reactjs.org/
react-is@16.13.1
URL: https://github.com/facebook/react.git
VendorUrl: https://reactjs.org/
react-lifecycles-compat@3.0.4
URL: https://github.com/reactjs/react-lifecycles-compat.git
react-popper@1.3.7
URL: https://github.com/souporserious/react-popper
VendorName: Travis Arnold
VendorUrl: https://github.com/souporserious/react-popper
react-redux@5.1.2
URL: https://github.com/reduxjs/react-redux.git
VendorName: Dan Abramov
VendorUrl: https://github.com/reduxjs/react-redux
react-spring@8.0.27
URL: git+https://github.com/drcmda/react-spring.git
VendorName: Paul Henschel
VendorUrl: https://github.com/drcmda/react-spring#readme
react-suber@1.0.4
URL: https://github.com/oskarhane/react-suber.git
VendorName: Oskar Hane
VendorUrl: http://oskarhane.com/
react-svg-inline@2.1.1
URL: https://github.com/MoOx/react-svg-inline.git
VendorName: Maxime Thirouin
react-table@7.0.4
URL: git+https://github.com/tannerlinsley/react-table.git
VendorUrl: https://github.com/tannerlinsley/react-table#readme
react-timeago@4.4.0
URL: https://github.com/naman34/react-timeago.git
VendorName: Naman Goel
VendorUrl: https://github.com/nmn/react-timeago
react@16.13.1
URL: https://github.com/facebook/react.git
VendorUrl: https://reactjs.org/
readable-stream@2.3.7
URL: git://github.com/nodejs/readable-stream
redux-observable@0.16.0
URL: git+https://github.com/redux-observable/redux-observable.git
VendorUrl: https://github.com/redux-observable/redux-observable#README.md
redux@3.7.2
URL: https://github.com/reactjs/redux.git
VendorUrl: http://redux.js.org/
redux@4.0.5
URL: https://github.com/reduxjs/redux.git
VendorUrl: http://redux.js.org/
regenerate-unicode-properties@8.2.0
URL: https://github.com/mathiasbynens/regenerate-unicode-properties.git
VendorName: Mathias Bynens
VendorUrl: https://github.com/mathiasbynens/regenerate-unicode-properties
regenerator-runtime@0.13.7
URL: https://github.com/facebook/regenerator/tree/master/packages/regenerator-runtime
VendorName: Ben Newman
regexp.prototype.flags@1.3.0
URL: git://github.com/es-shims/RegExp.prototype.flags.git
VendorName: Jordan Harband
regexpu-core@4.7.0
URL: https://github.com/mathiasbynens/regexpu-core.git
VendorName: Mathias Bynens
VendorUrl: https://mths.be/regexpu
regjsgen@0.5.2
URL: https://github.com/bnjmnt4n/regjsgen.git
VendorName: Benjamin Tan
VendorUrl: https://github.com/bnjmnt4n/regjsgen
remark-footnotes@2.0.0
URL: https://github.com/remarkjs/remark-footnotes.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
remark-mdx@1.6.18
URL: https://github.com/mdx-js/mdx.git
VendorName: Titus Wormer
VendorUrl: https://mdxjs.com/
remark-parse@8.0.3
URL: https://github.com/remarkjs/remark/tree/main/packages/remark-parse
VendorName: Titus Wormer
VendorUrl: https://remark.js.org/
VendorName: Levi Thomason  
VendorUrl: https://github.com/Semantic-Org/Semantic-UI-React#readme

set-immediate-shim@1.0.1  
URL: https://github.com/sindresorhus/set-immediate-shim.git  
VendorName: Sindre Sorhus  
VendorUrl: sindresorhus.com

shallowequal@1.1.0  
URL: https://github.com/dashed/shallowequal.git  
VendorName: Alberto Leal  
VendorUrl: github.com/dashed

source-map-support@0.5.19  
URL: https://github.com/evanw/node-source-map-support  
VendorName: Rich Harris  
VendorUrl: https://github.com/Rich-Harris/source-map-support

shallowequal@1.1.0  
URL: https://github.com/dashed/shallowequal.git  
VendorName: Alberto Leal  
VendorUrl: github.com/dashed

source-map-support@0.5.19  
URL: https://github.com/evanw/node-source-map-support  
VendorName: Rich Harris  
VendorUrl: https://github.com/Rich-Harris/source-map-support

space-separated-tokens@1.1.5  
URL: https://github.com/wooorm/space-separated-tokens.git  
VendorName: Titus Wormer  
VendorUrl: https://wooorm.com

sshpk@1.16.1  
URL: git+https://github.com/joyent/node-sshpk.git  
VendorName: Joyent, Inc  
VendorUrl: https://github.com/arekinath/node-sshpk#readme

stackblur-canvas@1.4.1  
URL: https://github.com/flozz/StackBlur.git  
VendorName: Mario Klingemann  
VendorUrl: https://github.com/flozz/StackBlur

state-toggle@1.0.3  
URL: https://github.com/wooorm/state-toggle.git  
VendorName: Titus Wormer  
VendorUrl: https://wooorm.com

string_decoder@1.1.1  
URL: git://github.com/nodejs/string_decoder.git  
VendorUrl: https://github.com/nodejs/string_decoder

string-width@4.2.0  
URL: https://github.com/sindresorhus/string-width.git  
VendorName: Sindre Sorhus  
VendorUrl: sindresorhus.com

string.prototype.trimEnd@1.0.1  
URL: git://github.com/es-shims/String.prototype.trimEnd.git  
VendorName: Jordan Harband

string.prototype.trimStart@1.0.1  
URL: git://github.com/es-shims/String.prototype.trimStart.git  
VendorName: Jordan Harband

strip-ansi@6.0.0  
URL: https://github.com/chalk/strip-ansi.git  
VendorName: Sindre Sorhus  
VendorUrl: sindresorhus.com
style-to-object@0.3.0
URL: https://github.com/remarkablemark/style-to-object
VendorName: Mark
styled-components@4.4.1
URL: git+https://github.com/styled-components/styled-components.git
VendorName: Glen Maddern
VendorUrl: https://styled-components.com/
stylis-rule-sheet@0.0.10
URL: https://github.com/thysultan/stylis.js
VendorName: Sultan Tarimo
VendorUrl: https://github.com/thysultan/stylis.js
stylis@3.5.4
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VendorUrl: https://github.com/thysultan/stylis.js
suber@5.0.1
URL: https://github.com/oskarhane/suber.git
VendorName: Oskar Hane
VendorUrl: http://oskarhane.com/
supports-color@5.5.0
URL: https://github.com/chalk/supports-color.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
symbol-observable@1.0.1
URL: https://github.com/blesh/symbol-observable.git
VendorName: Ben Lesh
VendorUrl: https://github.com/blesh/symbol-observable.git
symbol-observable@1.2.0
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VendorUrl: https://github.com/blesh/symbol-observable.git
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VendorName: Ben Lesh
VendorUrl: https://github.com/blesh/symbol-observable.git
symbol-tree@3.2.4
URL: https://github.com/jsdom/js-symbol-tree.git
VendorName: Joris van der Wel
VendorUrl: https://github.com/jsdom/js-symbol-tree#symbol-tree
to-fast-properties@2.0.0
URL: https://github.com/sindresorhus/to-fast-properties.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
tr46@0.0.3
URL: git+https://github.com/Sebmaster/tr46.js.git
VendorName: Sebastian Mayr
VendorUrl: https://github.com/Sebmaster/tr46.js#readme
trim-trailing-lines@1.1.3
URL: https://github.com/wooorm/trim-trailing-lines.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
trim@0.0.1
VendorName: TJ Holowaychuk
trough@1.0.5
URL: https://github.com/wooorm/trough.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
ts-invariant@0.4.4
URL: git+https://github.com/apollographql/invariant-packages.git
VendorName: Ben Newman
VendorUrl: https://github.com/apollographql/invariant-packages
type-check@0.3.2
URL: git://github.com/gkz/type-check.git
VendorName: George Zahariev
VendorUrl: https://github.com/gkz/type-check
typed-styles@0.0.7
VendorName: lttb
unherit@1.1.3
URL: https://github.com/wooorm/unherit.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
unicode-canonical-property-names-ecmascript@1.0.4
URL: https://github.com/mathiasbynens/unicode-canonical-property-names-ecmascript.git
VendorName: Mathias Bynens
VendorUrl: https://github.com/mathiasbynens/unicode-canonical-property-names-ecmascript
unicode-match-property-ecmascript@1.0.4
URL: https://github.com/mathiasbynens/unicode-match-property-ecmascript.git
VendorName: Mathias Bynens
VendorUrl: https://github.com/mathiasbynens/unicode-match-property-ecmascript
unicode-match-property-value-ecmascript@1.2.0
URL: https://github.com/mathiasbynens/unicode-match-property-value-ecmascript.git
VendorName: Mathias Bynens
VendorUrl: https://github.com/mathiasbynens/unicode-match-property-value-ecmascript
unicode-property-aliases-ecmascript@1.1.0
URL: https://github.com/mathiasbynens/unicode-property-aliases-ecmascript.git
VendorName: Mathias Bynens
VendorUrl: https://github.com/mathiasbynens/unicode-property-aliases-ecmascript
unified@9.2.0
URL: https://github.com/unifiedjs/unified.git
VendorName: Titus Wormer
VendorUrl: https://unifiedjs.com/
unist-builder@2.0.3
URL: https://github.com/syntax-tree/unist-builder.git
VendorName: Eugene Sharygin
unist-util-generated@1.1.5
URL: https://github.com/syntax-tree/unist-util-generated.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
unist-util-is@4.0.2
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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a
successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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----------------------------

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UUencode and UUdecode functions

-----------------------------

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Original location:
https://github.com/majek/csihash/

Solution inspired by code from:
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Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash
------

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In 1995, Guido continued his work on Python at the Corporation for
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in Reston, Virginia where he released several versions of the
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In May 2000, Guido and the Python core development team moved to
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c6f2bb56.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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</xsl:template>
</xsl:variable>

<xsl:variable name="isc.copyright">
<xsl:call-template name="isc.copyright.format">
<xsl:with-param name="text">
<xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:value-of select="$isc.copyright.breakline"/>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
</xsl:with-param>
</xsl:call-template>
</xsl:template>

<xsl:variable name="isc.copyright.text">
<xsl:text>
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1.2087 ingest-geoip 6.8.10

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1.2088 jaxws-undertow-httpspi 1.0.1.Final

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* /opt/cola/permissions/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/xml/BeanDefinitionParser.java
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jar/org/springframework/beans/factory/config/PropertiesFactoryBean.java
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- analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

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- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.
The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mit.iame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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* m4/ax_func_which_gethostbyname_r.m4

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1.2102 grpc-stub 1.30.2

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   * /opt/ws_local/PERMITS_SQL/1083459498_1598192314.5/0/grpc-stub-1-30-2-sources-jar/io/grpc/stub/ClientCallStreamObserver.java
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* /opt/ws_local/PERMITS_SQL/1083459498_1598192314.5/0/grpc-stub-1-30-2-sources-jar/io/grpc/stub/ServerCalls.java
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jar/io/netty/resolver/NoopAddressResolver.java
* /opt/cola/permits/1110676440_1606843194.97/0/netty-resolver-4.1.32-final-sources-2-
jar/io/netty/resolver/AddressResolverGroup.java
* /opt/cola/permits/1110676440_1606843194.97/0/netty-resolver-4.1.32-final-sources-2-
jar/io/netty/resolver/NameResolver.java
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jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/cola/permits/1110676440_1606843194.97/0/netty-resolver-4.1.32-final-sources-2-
jar/io/netty/resolver/package-info.java
* /opt/cola/permits/1110676440_1606843194.97/0/netty-resolver-4.1.32-final-sources-2-
jar/io/netty/resolver/SimpleNameResolver.java

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jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1110676440_1606843194.97/0/netty-resolver-4.1.32-final-sources-2-
jar/io/netty/resolver/AddressResolver.java
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jar/io/netty/resolver/InetSocketAddressResolver.java
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jar/io/netty/resolver/InetNameResolver.java
* /opt/cola/permits/1110676440_1606843194.97/0/netty-resolver-4.1.32-final-sources-2-
jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1110676440_1606843194.97/0/netty-resolver-4.1-32-final-sources-2-jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1110676440_1606843194.97/0/netty-resolver-4.1-32-final-sources-2-jar/io/netty/resolver/AbstractAddressResolver.java

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include/GL/glxext.h
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  jar/org/elasticsearch/dissect/DissectKey.java
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Zstd-jni: JNI bindings to Zstd Library

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Because of this blurred distinction, using the ordinary General
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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root function must still compute square roots.)

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.2130 perl 5.22.1-9ubuntu0.6

1.2130.1 Available under license:

-------------------------------------------------------------------------------
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------

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To do so, attach the following notices to the program. It is safest to
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The hypothetical commands `show w' and `show c' should show the
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.
If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the `C<--now>` option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$>readme>

my ($year) = $copyright_msg =~ /.*(\d\d\d\d,)/s
  or die "Year not found in README copyright message $\copyright_msg"

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b(\d\d\d\d,)/i
    or die "Copyright statement not found in perl -v output $\output";

  $year;
}

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1.2139 ncurses 6.1+20181013 2+deb10u2

1.2139.1 Available under license:
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api  
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons  
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/LineSeparator.java

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jar/org/jdom2/input/sax/SAXBuilderEngine.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/input/sax/XMLReaderSAX2Factory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderSchemaFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/input/sax/XMLReaders.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/xpath/xalan/XalanXPathExpression.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/perf/PerfVerifier.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/android/TranslateTests.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/perf/DevNull.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/perf/PerfTest.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/perf/PerfDoc.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/xpath/xalan/XalanXPathFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/xpath/java/JavaXPathExpression.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/xpath/java/JavaXPathFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dtdaware/AttFilter.java

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*/opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/AbstractSAXOutputProcessor.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/NamespaceAware.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/JDOMConstants.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/Filters.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/ClassFilter.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/SAXBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/EntityRef.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/AndFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/Format.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/CDATA.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/ContentFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Text.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/DefaultJDOMFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/AttributeList.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/SAXOutputter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/OrFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ProcessingInstruction.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JDOMXPath.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Element.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/input/sax/BuilderErrorHandler.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/DOMOutputter.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestAttribute.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestElement.java
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/*
 */
/*
 * ========================================================================
 * Support methods for Text-content formatting. Should all be protected. The
 * following are used when printing Text-based data. Because of complicated
 * multi-sequential text sometimes the requirements are odd. All Text
 * content will be output using these methods, which is why there is the None
 * version.
 * ========================================================================
 */

Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/support/AbstractXMLOutputProcessor.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/DataConversionException.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/WalkerPRESERVE.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedDocType.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedProcessingInstruction.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/Walker.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/WalkerTRIM_FULL_WHITE.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedCDATA.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/WalkerTRIM.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/Located.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar
jar/org/jdom2/located/LocatedJDOMFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/output/support/WalkerNORMALIZE.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/located/LocatedComment.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/located/LocatedElement.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/located/LocatedEntityRef.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/located/LocatedText.java

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestFilterList.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestDocType.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestVerifier.java

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* /opt/cola/permits/1135936329_161363824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/transform/XSLTransformException.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/input/scanner/ElementListener.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/input/scanner/XPathMatcher.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/ids/IdAttribute.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/ids/IdDocument.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/ids/IdElement.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/input/scanner/JakartaRegExpXPathMatcher.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/ids/IdFactory.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/LineNumberSAXHandler.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/LineNumberElement.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JDOMImplementation.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/XPathExpression.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JaxenCompiled.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JDOMCoreNavigator.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/XPathDiagnostic.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/xalan/AbstractXPathCompiled.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/xalan/JDOM2DTM.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/xalan/JaxenXPathFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/xpath/AbstractTestXPathCompiled.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/XPathBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/internal/SystemProperty.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JDOM2Navigator.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/CloneBase.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JCDATA.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderJAXPFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/DOM.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JEntityRef.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/SlimDOMFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JText.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/util/XPathDiagnosticImpl.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JNode.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JDocType.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JDOMConfiguration.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/Document.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/ISimpleContent.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JComment.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/stax/package-info.java

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestComment.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestNamespace.java

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* version.
*
Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
* jar/org/jdom2/output/support/AbstractOutputProcessor.java
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Found in path(s):
*/opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/schema/ValidationError.java
*/opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/schema/Schema.java

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/internal/ReflectionConstructor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/util/NamespaceStack.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/internal/ArrayCopy.java

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/output/support/SAXTarget.java

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/DOMOutputProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/AbstractStAXStreamProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/StAXEventProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/FormatStack.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/SAXOutputProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/AbstractDOMOutputProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/AbstractStAXEventProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/XMLOutputProcessor.java

No license file was found, but licenses were detected in source scan.

/*--

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*/

Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/ResultSetBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/TestBean.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/JDOMBean.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/TestIndexed.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/inputs/scanner/ElementScanner.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/DateUtils.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/XPathHelper.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/output/JTreeOutputter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/BeanMapperException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/StringConverter.java
Open Source Used In SDWan 20.7.1  22735

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on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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[This is the first released version of the library GPL. It is
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Preamble

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
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b) Accompany the work with a written offer, valid for at
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than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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<one line to give the library's name and a brief idea of what it does.>
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.2158 p11-kit 0.23.5 3.el7

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1.2159 wildfly-jacorb 19.1.0.Final

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HK2 Implementation Utilities
Jakarta Annotations API
jakarta.ws.rs-api
javax.inject:1 as OSGi bundle
javax.ws.rs-api
jersey-container-servlet
jersey-container-servlet-core
jersey-core-client
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jersey-inject-hk2
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ServiceLocator Default Implementation
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1.2165 jboss-marshalling 2.0.9.Final

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1.2166 jackson 2.9.7
1.2166.1 Available under license :

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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options {
    STATIC=false;
}

PARSER_BEGIN(Rcc)
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package org.apache.jute.compiler.generated;

import org.apache.jute.compiler. *
import java.util.ArrayList;
import java.util.Hashtable;
import java.io.File;
import java.io.FileReader;
import java.io.FileNotFoundException;
import java.io.IOException;

@ SuppressWarnings("unused")
public class Rcc {
    private static Hashtable<String, JRecord> recTab = new Hashtable<String, JRecord>();
    private static String curDir = System.getProperty("user.dir");
    private static String curFileName;
    private static String curModuleName;

public static void main(String args[]) {
    String language = "java";
    ArrayList<String> recFiles = new ArrayList<String>();
    JFile curFile = null;

    for (int i = 0; i < args.length; i++) {
        if ("-l".equalsIgnoreCase(args[i]) ||
            "--language".equalsIgnoreCase(args[i])) {
            language = args[i + 1].toLowerCase();
            i++;
        } else {
            recFiles.add(args[i]);
        }
    }

    if (!"c++".equals(language) && !"java".equals(language) && !"c".equals(language)) {
        System.out.println("Cannot recognize language:" + language);
        System.exit(1);
    }

    if (recFiles.size() == 0) {
        System.out.println("No record files specified. Exiting.");
        System.exit(1);
    }

    for (int i = 0; i < recFiles.size(); i++) {
        curFileName = recFiles.get(i);
        File file = new File(curFileName);
        try {
            curFile = parseFile(file);
        } catch (FileNotFoundException e) {
            System.out.println("File " + recFiles.get(i) + " Not found.");
            System.exit(1);
        } catch (ParseException e) {
            System.out.println(e.toString());
            System.exit(1);
        }

        System.out.println(curFileName + " Parsed Successfully");
        try {
            curFile.genCode(language, new File("."));
        } catch (IOException e) {
            System.out.println(e.toString());
            System.exit(1);
        }
    }
}

public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
    curDir = file.getParent();
    curFileName = file.getName();
FileReader reader = new FileReader(file);
try {
    Rcc parser = new Rcc(reader);
    recTab = new Hashtable<String, JRecord>();
    return parser.Input();
} finally {
    try {
        reader.close();
    } catch (IOException e) {
    }
}

PARSER_END(Rcc)

SKIP :
{
    " "
    | "\t"
    | "\n"
    | "\r"
}

SPECIAL_TOKEN :
{
    "/\"" : WithinOneLineComment
}

<WithinOneLineComment> SPECIAL_TOKEN :
{
    <("\n" | "\r" | "\r\n")> : DEFAULT
}

<WithinOneLineComment> MORE :
{
    "~[]"
}

SPECIAL_TOKEN :
{
    "/\*" : WithinMultiLineComment
}

<WithinMultiLineComment> SPECIAL_TOKEN :
{
    "\*/" : DEFAULT
}
MORE:
{
<~-[]>
}

TOKEN:
{
   <MODULE_TKN: "module">
|   <RECORD_TKN: "class">
|   <INCLUDE_TKN: "include">
|   <BYTE_TKN: "byte">
|   <BOOLEAN_TKN: "boolean">
|   <INT_TKN: "int">
|   <LONG_TKN: "long">
|   <FLOAT_TKN: "float">
|   <DOUBLE_TKN: "double">
|   <STRING_TKN: "string">
|   <BUFFER_TKN: "buffer">
|   <VECTOR_TKN: "vector">
|   <MAP_TKN: "map">
|   <LBRACE_TKN: "{">
|   <RBRACE_TKN: "}">
|   <LT_TKN: "<">
|   <GT_TKN: ">">
|   <SEMICOLON_TKN: ";">
|   <COMMA_TKN: ",">
|   <DOT_TKN: ".">
|   <CSTRING_TKN: "" (~["""]) + """>
|   <IDENT_TKN: ["A".-"Z", "a".-"z"] (["a".-"z", "A".-"Z", "0".-"9", "."])*>
}

JFile Input() :
{
   ArrayList<JFile> ilist = new ArrayList<JFile>();
   ArrayList<JRecord> rlist = new ArrayList<JRecord>();
   JFile i;
   ArrayList <JRecord>l;
}
{
   
   i = Include()
   { ilist.add(i); }  
   | l = Module()
   { rlist.addAll(l); }
)+
   <EOF>
   { return new JFile(curFileName, ilist, rlist); }
}
JFile Include() :
{
    String fname;
    Token t;
}
{
    <INCLUDE_TKN>
    t = <CSTRING_TKN>
    {
        JFile ret = null;
        fname = t.image.replaceAll("^\\\", "").replaceAll("\\$", "");
        File file = new File(curDir, fname);
        String tmpDir = curDir;
        String tmpFile = curFileName;
        curDir = file.getParent();
        curFileName = file.getName();
        try {
            FileReader reader = new FileReader(file);
            Rcc parser = new Rcc(reader);
            try {
                ret = parser.Input();
                System.out.println(fname + " Parsed Successfully");
            } catch (ParseException e) {
                System.out.println(e.toString());
                System.exit(1);
            } try {
                reader.close();
            } catch (IOException e) {
            }
        } catch (FileNotFoundException e) {
            System.out.println("File " + fname + " Not found.");
            System.exit(1);
        }
        curDir = tmpDir;
        curFileName = tmpFile;
        return ret;
    }
}

ArrayList<JRecord> Module() :
{
    String mName;
    ArrayList<JRecord> rlist;
}
<MODULE_TKN>
mName = ModuleName()
{ curModuleName = mName; }
<LBRACE_TKN>
  rlist = RecordList()
<RBRACE_TKN>
  { return rlist; }
}

String ModuleName() :
{
  String name = "";
  Token t;
}
{
  t = <IDENT_TKN>
  { name += t.image; }
  ( <DOT_TKN>
    t = <IDENT_TKN>
    { name += "." + t.image; }
  )* 
  { return name; }
}

ArrayList<JRecord> RecordList() :
{
  ArrayList<JRecord> rlist = new ArrayList<JRecord>();
  JRecord r;
}
{
  r = Record()
  { rlist.add(r); }
  }+
  { return rlist; }
}

JRecord Record() :
{
  String name;
  ArrayList<JField> flist = new ArrayList<JField>();
  Token t;
  JField f;
}
{
  <RECORD_TKN>
t = <IDENT_TKN>
{ rname = t.image; }
</LBRACE_TKN>
(
  f = Field()
  { flist.add(f); }
  <SEMICOLON_TKN>
)+
</RBRACE_TKN>
{
  String fqn = curModuleName + "." + rname;
  JRecord r = new JRecord(fqn, flist);
  recTab.put(fqn, r);
  return r;
}
)

JField Field() :
{
  JType jt;
  Token t;
}
{
  jt = Type()
  t = <IDENT_TKN>
  { return new JField(jt, t.image); }
}

JType Type() :
{
  JType jt;
  Token t;
  String rname;
}
{
  jt = Map()
  { return jt; }
|  jt = Vector()
  { return jt; }
|  <BYTE_TKN>
  { return new JByte(); }
|  <BOOLEAN_TKN>
  { return new JBoolean(); }
|  <INT_TKN>
  { return new JInt(); }
|  <LONG_TKN>
  { return new JLong(); }
|  <FLOAT_TKN>
{ return new JFloat(); }
| <DOUBLE_TKN>
{ return new JDouble(); }
| <USTRING_TKN>
{ return new JString(); }
| <BUFFER_TKN>
{ return new JBuffer(); }
| rname = ModuleName()
{
    if (rname.indexOf('.', 0) < 0) {
        rname = curModuleName + "." + rname;
    }
    JRecord r = recTab.get(rname);
    if (r == null) {
        System.out.println("Type " + rname + " not known. Exiting.");
        System.exit(1);
    }
    return r;
}

JMap Map() :
{
    JType jt1;
    JType jt2;
}
{
    <MAP_TKN>
    <LT_TKN>
    jt1 = Type()
    <COMMA_TKN>
    jt2 = Type()
    <GT_TKN>
    { return new JMap(jt1, jt2); }
}

JVector Vector() :
{
    JType jt;
}
{
    <VECTOR_TKN>
    <LT_TKN>
    jt = Type()
    <GT_TKN>
    { return new JVector(jt); }
}
Found in path(s):
* /opt/ cola/ permits/ 11 36663495 _ 1613850785.01 /0 /zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/rcc.j j
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  jar/org/apache/jute/compiler/generated/Rcc.java
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  jar/org/apache/jute/compiler/generated/ParseException.java
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  jar/org/apache/jute/compiler/generated/TokenMgrError.java
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  jar/org/apache/jute/compiler/generated/SimpleCharStream.java
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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JRecord.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/RecordReader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JField.java
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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/Index.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JInt.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JMap.java
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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/package.html
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/package.html

1.2168 jgroups 4.1.9.Final
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  Version 2.1, February 1999

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* under the License.
*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.  
*
* &lt;h3&gt;Sub-types&lt;/h3&gt;
* &lt;p&gt;
* {[@link ChannelHandler]} itself does not provide many methods, but you usually have to implement one of its subtypes:
* &lt;ul&gt;
* &lt;li&gt;[@link ChannelInboundHandler] to handle inbound I/O events, and&lt;/li&gt;
* &lt;li&gt;[@link ChannelOutboundHandler] to handle outbound I/O operations.&lt;/li&gt;
* &lt;/ul&gt;
* &lt;/p&gt;
* &lt;p&gt;
* Alternatively, the following adapter classes are provided for your convenience:
* &lt;ul&gt;
* &lt;li&gt;[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,&lt;/li&gt;
* &lt;li&gt;[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and&lt;/li&gt;
* &lt;li&gt;[@link ChannelDuplexHandler] to handle both inbound and outbound events&lt;/li&gt;
* &lt;/ul&gt;
* &lt;/p&gt;
* &lt;p&gt;
* For more information, please refer to the documentation of each subtype.
* &lt;/p&gt;
*
* &lt;h3&gt;The context object&lt;/h3&gt;
* &lt;p&gt;
* A {[@link ChannelHandler]} is provided with a {[@link ChannelHandlerContext]} object. A {[@link ChannelHandler]} is supposed to interact with the
* {[@link ChannelPipeline]} it belongs to via a context object. Using the
* context object, the {[@link ChannelHandler]} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {[@link AttributeKey]}s) which is specific to the handler.
* 
* &lt;h3&gt;State management&lt;/h3&gt;
* 
* A {[@link ChannelHandler]} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* &lt;pre&gt
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
*     private boolean loggedIn;
*
*     @Override
*     public void channelRead0(ChannelHandlerContext ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else if (message instanceof GetDataMessage) {
*             if (loggedIn) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
* ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See ChannelInitializer#initChannel(Channel).
* public class DataServerInitializer extends ChannelInitializer<Channel> {
*     @Override
*     public void initChannel(Channel channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
* </pre>
*
* Using AttributeKey's
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use AttributeKey's which is provided by
* ChannelHandlerContext:
* <pre>
* public interface Message {
*     // your methods here
* }
* }
* @interface Message {
*     // your methods here
* }
* public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
*     private boolean loggedIn;
* }
* public class DataServerInitializer extends ChannelInitializer<Channel> {
*     @Override
*     public void initChannel(Channel channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
* </pre>
* 
* <code>@Override</code>
* public void channelRead0(ChannelHandlerContext ctx, Message message) {
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) message);
*         loggedIn = true;
*     } else if (message instanceof GetDataMessage) {
*         if (loggedIn) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*         } else {
*             fail();
*         }
*     }
* }
* ...
/**
 * // your methods here
 */

/**
 * @code @Sharable
 *
 * public class DataServerHandler extends @link SimpleChannelInboundHandler}{@Message} {
 * private final @link AttributeKey}{@link Boolean} auth =
 *      @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth");
 *
 * { @code @Override
 * public class DataServerHandler extends @link SimpleChannelInboundHandler}{@Message} {
 * private final @link AttributeKey}{@link Boolean} auth =
 *      @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth");
 *
 * { @code @Override
 * public void channelRead(@link ChannelHandlerContext) ctx, Message message) {
 * { @link Attribute}@link Boolean} attr = ctx.attr(auth);
 * if (message instanceof LoginMessage) {
 * authenticate((LoginMessage) o);
 * attr.set(true);
 * } else (message instanceof GetDataMessage) {
 * if (<b>Boolean.TRUE.equals(attr.get())</b>) {
 * ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
 * } else {
 * fail();
 * }
 * }
 * ...
 * }
 */
/* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
*/
/*
* public class DataServerInitializer extends @link ChannelInitializer}{@link Channel} {
* private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
* { @code @Override
* public void initChannel(@link Channel) channel) {
* channel.pipeline().addLast("handler", <b>SHARED</b>);
* }
*/
/*
* <h4>The { @code @Sharable} annotation</h4>
* <p>
In the example above which used an { @link AttributeKey},
* you might have noticed the { @code @Sharable} annotation.
* <p>
If a { @link ChannelHandlerContext} is annotated with the { @code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline}s multiple times without
* a race condition.

* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

* This annotation is provided for documentation purpose, just like the [JCIP annotations](http://www.javaconcurrencyinpractice.com/annotations/doc/).

* Additional resources worth reading

Please refer to the [@link ChannelHandler](io/netty/channel/ChannelHandler.java), and [@link ChannelPipeline](io/netty/channel/AbstractCoalescingBufferQueue.java) to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

*/

Found in path(s):
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/ChannelHandler.java

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* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/AbstractEventLoop.java

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* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/ChannelGroup.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-jar/io/netty/channel/AddressedEnvelope.java
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jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
jar/io/netty/channel/ConnectTimeoutException.java
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jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
jar/io/netty/channel/ChannelOutboundBuffer.java
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jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
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* /opt/cola/permits/1177956806_1625584573.81/0/netty-transport-4-1-48-final-sources-4-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java

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jar/io/netty/channel/socket/DuplexChannel.java
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jar/io/netty/bootstrap/BootstrapConfig.java
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jar/io/netty/channel/ChannelOutboundInvoker.java
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jar/io/netty/channel/WriteBufferWaterMark.java

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jar/io/netty/channel/pool/AbstractChannelPoolMap.java
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Original sources were obtained from:
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1.2179 pcre 8.41
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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

-----------------------------

Written by: Philip Hazel
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Email domain: cam.ac.uk

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PCRE JUST-IN-TIME COMPILATION SUPPORT

-------------------------------

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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1.2180 cracklib 2.9.5-r0
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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde= r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20
-----------------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> 
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> 
> =-mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didnt notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =20
library to dictact to application writes what license they should be using.=20
thus LGPL-2.1 enters to fill this void.

=-Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

============================================================================
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li... [mailto:cracklib-devel-bounces@li...]
> On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec directly
> > and see if he wants to relicense his code as LGPL... but at this point,
> > it was enough to just get it consistent and documented as to what it was
> > released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.
>
> the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didnt notice the license change until it was mentioned in the latest notes.

> unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong, it isnt the place of a library to dictact to application writes what license they should be using.

> thus LGPL-2.1 enters to fill this void.

>mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a
I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
> > by me.
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable timeframe.
I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > Seems like the ideal thing here would be for you and the other distro
> > > > maintainers to get together with Alec in a conversation and come to a
> > > > decision as to what licensing scheme y'all want. I haven't really done
> > > > much other than cleaning up the packaging and patches and a small
> > > > bit of
> > > > additional code, so whatever licensing y'all come up with is fine
> > > > by me.
> > > >
> > > > I am sympathetic. Guys, what do you reckon?
> > >>
> > > > What I am hearing so far is that LGPL makes sense, since it can be
> > > > linked with any code, not just GPL....
> > >
> > > My apologies for not chiming in in anything resembling a reasonable
> > > timeframe.
> >>
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes, go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes. go for it. thanks++

Nathan Neuling is the only one who can actually make said change ...

-mike

-----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);  
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);  
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)  
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxptr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])  
   by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 11cOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710100908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710100908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> > -------- Forwarded message --------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> >
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.2181 berkeley-db 5.3.21 25.el7

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It was downloaded from <http://www.ch-werner.de/sqliteodbc/>

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1.2190 jsonpointer 2.0

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.2193 certifi 2018.01.18

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
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can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.2194 jersey-client 2.30.1

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#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
  db eval {
    CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent
TEXT NOT NULL DEFAULT ",t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT ",b_blob
BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL
DEFAULT 0);
}
CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')), d_date DATE NOT NULL, t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')), i_parent INTEGER, t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));

CREATE TABLE doctransactionitem (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_doctransaction_id INTEGER NOT NULL, i_object_id INTEGER NOT NULL, t_object_table TEXT NOT NULL, t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')), t_sqlorder TEXT NOT NULL DEFAULT '');

CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_doctransaction_id INTEGER NOT NULL, t_message TEXT NOT NULL DEFAULT '', t_popup VARCHAR(1) DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));

CREATE TABLE unit (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_symbol TEXT NOT NULL DEFAULT '', t_country TEXT NOT NULL DEFAULT '', t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')), t_internet_code TEXT NOT NULL DEFAULT '', i_nbdecimal INT NOT NULL DEFAULT 2, rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source TEXT NOT NULL DEFAULT '');

CREATE TABLE unitvalue (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_unit_id INTEGER NOT NULL, d_date DATE NOT NULL, f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));

CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_bank_number TEXT NOT NULL DEFAULT '', t_icon TEXT NOT NULL DEFAULT '');

CREATE TABLE interest (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_account_id INTEGER NOT NULL, d_date DATE NOT NULL, f_rate FLOAT NOT NULL CHECK (f_rate>=0), t_income_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_expenditure_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_expenditure_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_base VARCHAR(3) NOT NULL DEFAULT '24' CHECK (t_base IN ('24', '360', '365')));

CREATE TABLE operation (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, i_group_id INTEGER NOT NULL DEFAULT 0, i_number INTEGER DEFAULT 0 CHECK (i_number>=0), d_date DATE NOT NULL DEFAULT '0000-00-00', rd_account_id INTEGER NOT NULL, t_mode TEXT NOT NULL DEFAULT '', r_payee_id INTEGER NOT NULL DEFAULT 0, t_comment TEXT NOT NULL DEFAULT '', rc_unit_id INTEGER NOT NULL, t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N', 'P', 'Y')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), f_value FLOAT NOT NULL DEFAULT 0.0, i_tmp INTEGER NOT NULL DEFAULT 0, r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0);

CREATE TABLE operationbalance (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, i_group_id INTEGER NOT NULL DEFAULT 0, i_number INTEGER DEFAULT 0, t_comment TEXT NOT NULL DEFAULT '', rd_account_id INTEGER NOT NULL, d_date DATE NOT NULL DEFAULT '0000-00-00', f_balance FLOAT NOT NULL DEFAULT 0.0);

CREATE TABLE refund (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_comment TEXT NOT NULL DEFAULT '', t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')));

CREATE TABLE payee (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_address TEXT NOT NULL DEFAULT '', t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));

CREATE TABLE suboperation (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_comment TEXT NOT NULL DEFAULT '', rd_operation_id INTEGER NOT NULL, r_category_id INTEGER NOT NULL DEFAULT 0, f_value FLOAT NOT NULL DEFAULT 0.0, i_tmp INTEGER NOT NULL DEFAULT 0, r_refund_id INTEGER NOT NULL DEFAULT 0, t_formula TEXT NOT NULL DEFAULT '');

CREATE TABLE rule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_description TEXT NOT NULL DEFAULT '');
```
CREATE TABLE budget (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_including_subcategories TEXT NOT NULL DEFAULT 'N', f_budgeted FLOAT NOT NULL DEFAULT 0.0, f_budgeted_modified FLOAT NOT NULL DEFAULT 0.0, i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12));
CREATE TABLE budgetcategory (id INTEGER NOT NULL DEFAULT 0, id_category INTEGER NOT NULL DEFAULT 0);
CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_category_condition TEXT NOT NULL DEFAULT 'Y', i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12), t_month_condition TEXT NOT NULL DEFAULT 'Y', i_condition INTEGER NOT NULL DEFAULT 0 CHECK (i_condition IN (-1, 0, 1)), f_quantity FLOAT NOT NULL DEFAULT 0.0, t_absolute TEXT NOT NULL DEFAULT 'Y', rc_category_id_target INTEGER NOT NULL DEFAULT 0, t_category_target TEXT NOT NULL DEFAULT 'Y', t_rule TEXT NOT NULL DEFAULT 'N');
CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, d_date DATE NOT NULL DEFAULT '0000-00-00', rd_operation_id INTEGER NOT NULL, i_period_increment INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>=0), t_period_unit TEXT NOT NULL DEFAULT 'M', t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_auto_write IN ('Y', 'N')), i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK (i_auto_write_days>=0), t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')), i_warn_days INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0), t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN ('Y', 'N')), i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0));
CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_fullname TEXT, rd_category_id INT, t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE "account" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_number TEXT NOT NULL DEFAULT '', t_agency_number TEXT NOT NULL DEFAULT '', t_agency_address TEXT NOT NULL DEFAULT '', t_comment TEXT NOT NULL DEFAULT '', t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')), t_type VARCHAR(1) NOT NULL DEFAULT 'C', t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), rd_bank_id INTEGER NOT NULL);
CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_fullname TEXT, rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);
CREATE TABLE vm_category_display_tmp (id INT, t_name TEXT, t_fullname TEXT, rd_category_id INT,
```

CREATE TABLE vm_budget_tmp(  id INT,  rc_category_id INT,  t_including_subcategories TEXT,  f_budgeted REAL,  f_budgeted_modified REAL,  f_transferred REAL,  i_year INT,  i_month INT,  t_CATEGORY,  t_PERIOD,  f_CURRENTAMOUNT,  t_RULES);

CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id, t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name,rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date,rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name,rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date,rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year,i_month,rc_category_id);
CREATE VIEW v_node AS SELECT * from node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname from node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname from parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW
BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'parameters'; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW
BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN UPDATE node SET
    t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
        new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
    WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN UPDATE
    node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
        new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
    WHERE id=new.id;UPDATE node SET t_name=case when NEW.rd_node_id IS NULL OR NEW.rd_node_id='' OR NEW.rd_node_id=0 THEN
        NEW.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id=NEW.rd_node_id)||' > '||NEW.t_name END
    WHERE id=NEW.id;END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budget)
    Nom de la contrainte: fki_budget_category_rc_category_id_id')
    WHERE NEW.rc_category_id!=0 AND
    NEW.rc_category_id|='"' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW
    BEGIN RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budget)
    Nom de la contrainte: fku_budget_category_rc_category_id_id')
    WHERE NEW.rc_category_id!=0 AND
    NEW.rc_category_id|='"' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (bank est utilis par account)
    Nom de la contrainte: fkdc_bank_account_id_rd_bank_id_id')
    WHERE NEW.rd_bank_id!=0 AND
    NEW.rd_bank_id|='"' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilis par account)
    Nom de la contrainte: fkdc_bank_account_id_rd_bank_id_id')
    WHERE NEW.rd_bank_id!=0 AND
    NEW.rd_bank_id|='"' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budget)
    Nom de la contrainte: fki_budget_category_rc_category_id_id')
    WHERE NEW.rc_category_id!=0 AND
    NEW.rc_category_id|='"' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id)  WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id="" AND (SELECT id FROM doctransaction
WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON
doctransactionitem FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet
doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id)  WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id="" AND (SELECT id FROM doctransaction
WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransactionitem_doctransactionitem_rd_doctransaction_id_id BEFORE DELETE ON
doctransaction item WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON
doctransactionmsg FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible d''ajouter un objet
doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id)  WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id="" AND (SELECT id FROM doctransaction
WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON
doctransactionmsg FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet
doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id)  WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id="" AND (SELECT id FROM doctransaction
WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON
doctransactionmsg FOR EACH ROW BEGIN  DELETE FROM doctransactionmsg WHERE
doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW
BEGIN  SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (account est utilis par interest)
Nom de la contrainte: fki_interest_account_rd_account_id_id)  WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW
BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)
Nom de la contrainte: fku_interest_account_rd_account_id_id)  WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW
BEGIN  DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (node est utilis par node)
Nom de la contrainte: fki_node_node_rd_node_id_id)  WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id=""
AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)
Nom de la contrainte: fku_node_node_rd_node_id_id)  WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id=""
AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN
DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW
BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilisé par operation)
Nom de la contrainte: fki_operation_account_rd_account_id_id')
WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!=''
AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW
BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilisé par operation)
Nom de la contrainte: fku_operation_account_rd_account_id_id')
WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!=''
AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW
BEGIN
DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW
BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (payee est utilisé par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id')
WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!=''
AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW
BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilisé par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id')
WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!=''
AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW
BEGIN
UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par operation)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id')
WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW
BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id')
WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (unit est utilisé par operation)
Nom de la contrainte: fkd_operation_unit_rc_unit_id_id')
WHERE (SELECT rc_unit_id FROM operation
WHERE rc_unit_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON
operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation est utilisé par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id')
WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!=''
AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON
operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilisé par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id')
WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!=''
AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON
recurrentoperation FOR EACH ROW BEGIN
UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance
...
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (opération est utilis par operationbalance)
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id’ WHERE NEW.r_operation_id!=0 AND
NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (opération est utilis par operationbalance)
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id’) WHERE NEW.r_operation_id!=0 AND
NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operation FOR
EACH ROW BEGIN UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON
recurrrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (opération est utilis par recurrentoperation)
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id’) WHERE NEW.rd_operation_id!=0 AND
NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON
recurrrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (opération est utilis par recurrentoperation)
Nom de la contrainte: fku_recurrentoperation_operation_rd_operation_id_id’) WHERE NEW.rd_operation_id!=0 AND
NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation
FOR EACH ROW BEGIN DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id =
OLD.id; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (opération est utilis par suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id’) WHERE NEW.rd_operation_id!=0 AND
NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (opération est utilis par suboperation)
Nom de la contrainte: fku_suboperation_operation_rd_operation_id_id’) WHERE NEW.rd_operation_id!=0 AND
NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR
EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id’) WHERE NEW.r_category_id!=0 AND
NEW.r_category_id!="" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par
Nom de la contrainte: fku_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;

CREATE TRIGGER fkd_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN     UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;

CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (refund est utilis par suboperation) Nom de la contrainte: fki_suboperation_refund_r_refund_id_id')   WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilis par suboperation) Nom de la contrainte: fku_suboperation_refund_r_refund_id_id')       WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;

CREATE TRIGGER fkd_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW BEGIN     UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;

CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par unit) Nom de la contrainte: fki_unit_unit_rd_unit_id_id')   WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;

CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unit) Nom de la contrainte: fku_unit_unit_rd_unit_id_id')       WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;

CREATE TRIGGER fkdc_unit_unit_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN     DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;

CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par unitvalue) Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id')   WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;

CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unitvalue) Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id')       WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;

CREATE TRIGGER fkdc_unitvalue_unit_id_rd_unit_id BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN     DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;

CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;

CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN '' ELSE (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN
'Monnaie' WHEN 'S' THEN 'Action' WHEN 'T' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT MIN(s.d_date) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE from unit;

CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE IFNULL((SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit_tmp1.id AND s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE from v_unit_tmp1;

CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT from v_unit_tmp2;

CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname WHERE unitvalue.rd_unit_id=v_unit_displayname.id)||' '||STRFTIME('%d/%m/%Y',d_date) AS t_displayname FROM unitvalue;

CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;

CREATE VIEW v_suboperation AS SELECT * FROM suboperation;

CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;

CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND (T2.i_number IS NULL) ORDER BY T1.i_number;

CREATE VIEW v_operation_tmp1 AS SELECT *,(SELECT t_name FROM payee s WHERE s.id=operation.r_payee_id) AS t_PAYEE,(SELECT TOTAL(s.f_value) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS f_QUANTITY,(SELECT count(*) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS i_NBSUBCATEGORY FROM operation;

CREATE VIEW v_operation AS SELECT *,(SELECT s.id FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS i_MOSTIMPSUBOP,((SELECT s.f_CURRENTAMOUNT FROM v_unit s WHERE s.id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY) AS f_CURRENTAMOUNT, (CASE WHEN v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE v_operation_tmp1.rd_account_id=a.id AND a.t_type<>'L') AND EXISTS (SELECT 1 FROM v_operation_tmp1 op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND a.t_type<>'L' AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY=v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;

CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n\'êtes pas autoris\'e de supprimer cette operation car en t\'at rapproch\' END) t_delete_message FROM operation;

CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM  interest s WHERE s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;

CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n\'êtes pas autoris\'e de supprimer ce compte car il contient des operations rapproch\'es END) t_delete_message FROM account;

CREATE VIEW v_bank_displayname AS SELECT *, t_name AS t_displayname FROM bank;

CREATE VIEW v_account_displayname AS SELECT *, (SELECT t_displayname FROM v_bank_displayname WHERE account.rd_bank_id=v_bank_displayname.id)||'-'||t_name AS t_displayname FROM account;
CREATE VIEW v_bank AS SELECT *, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;
CREATE VIEW v_category_displayname AS SELECT *, t_fullname AS t_displayname FROM category;
CREATE VIEW v_category AS SELECT * FROM category;
CREATE VIEW v_recurrentoperation AS SELECT *, i_period_increment[] || (CASE t_period_unit WHEN 'Y' THEN 'anne(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNLS FROM recurrentoperation;
CREATE VIEW v_recurrentoperation_displayname AS SELECT *, (SELECT t_displayname FROM v_operation_displayname WHERE v_operation_displayname.id=v_recurrentoperation.rd_operation_id) AS t_displayname FROM v_recurrentoperation;
CREATE VIEW v_suboperation_display AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=v_suboperation.r_category_id), '') AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s WHERE s.id=v_suboperation.r_refund_id), '') AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY||' : '||f_value AS t_displayname FROM v_suboperation_display;
CREATE VIEW v_operation_display_all AS SELECT *, (SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT, (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT, (SELECT s.t_CATEGORY FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY, (SELECT s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND, (CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, STRFTIME('%Y-W%W', v_operation.d_date) AS d_DATEWEEK, STRFTIME('%Y-%m', v_operation.d_date) AS d_DATEMONTH, STRFTIME('%Y', v_operation.d_date)||'-Q'||(CASE WHEN STRFTIME('%m', v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m', v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m', v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER, STRFTIME('%Y', v_operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m', v_operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATESEMESTER, STRFTIME('%Y', v_operation.d_date) AS d_DATEYEAR, (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE FROM v_operation;
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';
CREATE VIEW v_unit_display AS SELECT *, (SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;
CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crédit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS, bank.t_name AS t_BANK, bank.t_bank_number AS t_BANK_NUMBER, bank.t_icon AS t_ICON, v_account.f_CURRENTAMOUNT, (SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_TODAYAMOUNT, (SELECT count(*) FROM v_operationDisplay s WHERE s.rd_account_id=v_account.id) AS i_NBOPERATIONS, IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE),0) AS f_RATE FROM v_account, bank WHERE bank.id=v_account.rd_bank_id;
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE, (SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE, sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dépense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;
CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';
CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n’êtes pas autorisé à supprimer ce suivant car utilisé par des opérations rapprochées' END) t_delete_message FROM refund;
CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;
CREATE VIEW v_refund_display AS SELECT *, (SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_LASTDATE FROM v_refund;
CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;
CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE r_payee_id=payee.id AND t_status='Y') THEN 'Vous n’êtes pas autorisé à supprimer ce tiers car utilisé par des opérations
CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;
CREATE VIEW v_payee_display AS SELECT * FROM v_payee;
CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;
CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname[\%']) AND t_status='Y') THEN 'Vous n''etes pas autoris  d''ruire cette categorie car utilise par des oprations rapproches' END) t_delete_message FROM category;
CREATE VIEW v_category_tmp AS SELECT *,(SELECT count(distinct(so.rd_operation_id)) FROM operation o, suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID AND o.t_template='N') AS i_NBOPERATIONS, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT FROM v_category;
CREATE VIEW v_category_display AS SELECT *,f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname\%') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname like vm_category_display_tmp.t_fullname\%') AS i_SUMNBOPERATIONS, (CASE WHEN t_bookmarked='Y' THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE,(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN 'Revenu' END) AS t_TYPEEXPENSENLS FROM vm_category_display_tmp;
CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;
CREATE VIEW v_rule AS SELECT *,(SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;
CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;
CREATE VIEW v_interest AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;
CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname FROM interest;
CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'Ngatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS t_WHATNLS,(CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant' WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;
CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||' '||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budget.rc_category_id,") AS tCATEGORY, (CASE WHEN i_month=0 THEN " WHEN i_month<10 THEN '-0'||[i_month ELSE '-'||[i_month END)) AS tPERIOD, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM budgetcategory b2 WHERE b2.id=budget.id)) AS fCURRENTAMOUNT, (SELECT GROUP_CONCAT(v_budgetrule_displayname.t_displayname,',') FROM v_budgetrule_displayname WHERE (v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND (v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND (v_budgetrule_displayname.t_category_condition='N' OR budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS tRULES FROM budget;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS fDELTABEFORERETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS fDELTA FROM v_budget_tmp;
CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS fDELTABEFORERETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS fDELTA FROM vm_budget_tmp;
CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||' '||t_PERIOD||' '||f_budgeted_modified AS t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
BEGIN    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;

CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET
t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id="" OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)) || ' > '||new.t_name
END WHERE id=new.id;END;

CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
UPDATE category SET
t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id="" OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)) || ' > '||new.t_name
END WHERE id=new.id;UPDATE category SET t_name=new.t_name
WHERE rd_category_id=new.id;END;

CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;

explain
SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
from v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;
}
} {/.* Goto .*/}

# The next test requires FTS4
ifcapable !fts3 { finish_test return }

# Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
    db eval {
CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT
NULL, UNIQUE (Uri));
CREATE VIRTUAL TABLE fts USING fts4;
CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER,
"mfo:groupId" INTEGER, "mfo:groupId:graph" INTEGER,
"mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional"
INTEGER, "mfo:optional:graph" INTEGER);
CREATE TABLE "mfo:FeedChannel" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:updatedTime" INTEGER, "mfo:updatedTime:graph" INTEGER,
"mfo:updatedTime:localDate" INTEGER, "mfo:updatedTime:localTime"
INTEGER, "mfo:unreadCount" INTEGER, "mfo:unreadCount:graph" INTEGER,
"mfo:totalCount" INTEGER, "mfo:totalCount:graph" INTEGER, "mfo:action" INTEGER,
"mfo:action:graph" INTEGER, "mfo:type" INTEGER,
```
CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER, "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER, "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime" INTEGER);
CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL, "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER);
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL, "mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL, "mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL, "mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL, "mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL, "mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL, "mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL, "mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL, "mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
```
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:nCalTimezone" INTEGER, "ncal:nCalTimezone:graph" INTEGER, "ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate" INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER, "ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER, "ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL, "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL, "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL, "ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL, "ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL, "ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY,  
"ncal:statusDescription" TEXT COLLATE NOCASE,  
"ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT  
COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER,  
"ncal:requestStatusData" TEXT COLLATE NOCASE,  
"ncal:requestStatusData:graph" INTEGER);  
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);  
CREATE TABLE "ncal:Timezone" (ID INTEGER NOT NULL PRIMARY KEY,  
"ncal:tzurl" INTEGER, "ncal:tzurl:graph" INTEGER, "ncal:standard"  
INTEGER, "ncal:standard:graph" INTEGER, "ncal:daylight" INTEGER,  
"ncal:daylight:graph" INTEGER, "ncal:tzid" TEXT COLLATE NOCASE,  
"ncal:tzid:graph" INTEGER);  
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY  
KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE,  
"ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE  
NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE  
NOCASE, "ncal:tzname:graph" INTEGER);  
CREATE TABLE "ncal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,  
"ncal:percentComplete" INTEGER, "ncal:percentComplete:graph" INTEGER,  
"ncal:completed" INTEGER, "ncal:completed:graph" INTEGER,  
"ncal:completed:localDate" INTEGER, "ncal:completed:localTime"  
INTEGER, "ncal:todoStatus" INTEGER, "ncal:todoStatus:graph" INTEGER,  
"ncal:due" INTEGER, "ncal:due:graph" INTEGER);  
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);  
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY,  
"ncal:related" INTEGER, "ncal:related:graph" INTEGER,  
"ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER,  
"ncal:triggerDateTime:localDate" INTEGER, "ncal:triggerDateTime:localTime"  
INTEGER, "ncal:triggerDuration" INTEGER, "ncal:triggerDuration:graph" INTEGER);  
CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);  
CREATE TABLE "ncal:UnionParentClass" (ID INTEGER NOT NULL PRIMARY  
KEY, "ncal:lastModified" INTEGER, "ncal:lastModified:graph" INTEGER,  
"ncal:lastModified:localDate" INTEGER, "ncal:lastModified:localTime"  
INTEGER, "ncal:trigger" INTEGER, "ncal:trigger:graph" INTEGER,  
"ncal:created" INTEGER, "ncal:created:graph" INTEGER,  
"ncal:created:localDate" INTEGER, "ncal:created:localTime" INTEGER,  
"ncal:url" INTEGER, "ncal:url:graph" INTEGER, "ncal:comment" TEXT  
COLLATE NOCASE, "ncal:comment:graph" INTEGER, "ncal:summaryAltRep"  
INTEGER, "ncal:summaryAltRep:graph" INTEGER, "ncal:priorities" INTEGER,  
"ncal:priorities:graph" INTEGER, "ncal:location" TEXT COLLATE NOCASE,  
"ncal:location:graph" INTEGER, "ncal:uid" TEXT COLLATE NOCASE,  
"ncal:uid:graph" INTEGER, "ncal:requestStatus" INTEGER,  
"ncal:requestStatus:graph" INTEGER, "ncal:recurrenceId" INTEGER,  
"ncal:recurrenceId:graph" INTEGER, "ncal:dtstamp" INTEGER,  
"ncal:dtstamp:graph" INTEGER, "ncal:dtstamp:localDate" INTEGER,  
"ncal:dtstamp:localTime" INTEGER, "ncal:class" INTEGER,
CREATE TABLE "nco:Affiliation_nco:title" (ID INTEGER NOT NULL, "nco:title" TEXT NOT NULL, "nco:title:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CarPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY, "nco:contactGroupName" TEXT COLLATE NOCASE, "nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL, "nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL, "nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL, "nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL, "nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL, "nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL, "nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY, "nco:emailAddress" TEXT COLLATE NOCASE UNIQUE, "nco:emailAddress:graph" INTEGER);
CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph" INTEGER, "nco:imAccountType" TEXT COLLATE NOCASE, "nco:imAccountType:graph" INTEGER, "nco:imDisplayName" TEXT COLLATE NOCASE, "nco:imDisplayName:graph" INTEGER, "nco:imEnabled" INTEGER, "nco:imEnabled:graph" INTEGER);
CREATE TABLE "nco:IMAccount_nco:hasIMContact" (ID INTEGER NOT NULL, "nco:hasIMContact" INTEGER NOT NULL, "nco:hasIMContact:graph" INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL, "nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph" INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:nameFamily" TEXT COLLATE NOCASE, "nco:nameFamily:graph" INTEGER, "nco:nameGiven" TEXT COLLATE NOCASE, "nco:nameGiven:graph" INTEGER, "nco:nameAdditional" TEXT COLLATE NOCASE, "nco:nameAdditional:graph" INTEGER, "nco:nameHonorificSuffix" TEXT COLLATE NOCASE, "nco:nameHonorificSuffix:graph" INTEGER);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT NULL, "nco:hasAffiliation" INTEGER NOT NULL);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video" INTEGER, "nco:video:graph" INTEGER);
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL, "nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL, "nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL, "nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL, "nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL, "nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL, "nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL, "nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url" INTEGER NOT NULL, "nco:url:graph" INTEGER);
CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL, "nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
  "nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph" INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Audio" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:channels" INTEGER, "nfo:channels:graph" INTEGER,
  "nfo:sideChannels" INTEGER, "nfo:sideChannels:graph" INTEGER,
  "nfo:lifeChannels" INTEGER, "nfo:lifeChannels:graph" INTEGER,
  "nfo:sampleCount" INTEGER, "nfo:sampleCount:graph" INTEGER,
  "nfo:bitsPerSample" INTEGER, "nfo:bitsPerSample:graph" INTEGER,
  "nfo:frontChannels" INTEGER, "nfo:frontChannels:graph" INTEGER,
  "nfo:rearChannels" REAL, "nfo:rearChannels:graph" INTEGER,
  "nfo:gain" INTEGER, "nfo:gain:graph" INTEGER, "nfo:peakGain" INTEGER,
  "nfo:peakGain:graph" INTEGER, "nfo:audioOffset" REAL,
  "nfo:audioOffset:graph" INTEGER);
CREATE TABLE "nfo:Bookmark" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:bookmarks" INTEGER, "nfo:bookmarks:graph" INTEGER,
  "nfo:characterPosition" INTEGER, "nfo:characterPosition:graph" INTEGER,
  "nfo:pageNumber" INTEGER, "nfo:pageNumber:graph" INTEGER,
  "nfo:streamPosition" INTEGER, "nfo:streamPosition:graph" INTEGER,
  "nfo:streamDuration" INTEGER, "nfo:streamDuration:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT NULL,
  "nfo:containsBookmark" INTEGER NOT NULL,
  "nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT NULL,
  "nfo:containsBookmarkFolder" INTEGER NOT NULL,
  "nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:originalLocation" TEXT COLLATE NOCASE,
  "nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER,
  "nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate" INTEGER,
  "nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:tableOfContents" TEXT COLLATE NOCASE,
  "nfo:tableOfContents:graph" INTEGER);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph" INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER, "nfo:equipmentSoftware" TEXT COLLATE NOCASE, "nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER, "nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
<table>
<thead>
<tr>
<th>Table Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>nfo:RegionOfInterestContent</td>
<td>Table for region of interest content</td>
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<tr>
<td>nfo:RemoteDataObject</td>
<td>Table for remote data object</td>
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<tr>
<td>nfo:RemotePortAddress</td>
<td>Table for remote port address</td>
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<td>nfo:Software</td>
<td>Table for software</td>
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<td>nfo:SoftwareApplication</td>
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<td>nfo:SourceCode</td>
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<td>nfo:Spreadsheet</td>
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<td>nfo:Visual</td>
<td>Table for visual</td>
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<tr>
<td>nfo:WebHistory</td>
<td>Table for web history</td>
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</tbody>
</table>
CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nid3:ID3Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nid3:title" TEXT COLLATE NOCASE, "nid3:title:graph" INTEGER,
"nid3:albumTitle" TEXT COLLATE NOCASE, "nid3:albumTitle:graph" INTEGER,
"nid3:contentType" TEXT COLLATE NOCASE, "nid3:contentType:graph" INTEGER,
"nid3:length" INTEGER, "nid3:length:graph" INTEGER, "nid3:recordingYear" INTEGER,
"nid3:recordingYear:graph" INTEGER, "nid3:trackNumber" TEXT COLLATE NOCASE,
"nid3:trackNumber:graph" INTEGER, "nid3:partOfSet" TEXT COLLATE NOCASE,
"nid3:partOfSet:graph" INTEGER, "nid3:comments" TEXT COLLATE NOCASE,
"nid3:comments:graph" INTEGER);
CREATE TABLE "nid3:ID3Audio_nid3:leadArtist" (ID INTEGER NOT NULL,
"nid3:leadArtist" INTEGER NOT NULL, "nid3:leadArtist:graph" INTEGER);
CREATE TABLE "nie:DataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:url" TEXT COLLATE NOCASE UNIQUE, "nie:url:graph" INTEGER,
"nie:byteSize" INTEGER, "nie:byteSize:graph" INTEGER,
"nie:interpretedAs" INTEGER, "nie:interpretedAs:graph" INTEGER,
"nie:lastRefreshed" INTEGER, "nie:lastRefreshed:graph" INTEGER,
"nie:lastRefreshed:localDate" INTEGER, "nie:lastRefreshed:localTime" INTEGER,
"nie:created" INTEGER, "nie:created:graph" INTEGER,
"nie:created:localDate" INTEGER, "nie:created:localTime" INTEGER,
"nfo:belongsToContainer" INTEGER, "nfo:belongsToContainer:graph" INTEGER,
"tracker:available" INTEGER, "tracker:available:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL,
"nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL,
"nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nie:InformationElement" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nie:contentLastModified" INTEGER, "nie:contentLastModified:graph" INTEGER,
"nie:contentLastModified:localDate" INTEGER, "nie:contentLastModified:localTime" INTEGER,
"nie:subject" TEXT COLLATE NOCASE, "nie:subject:graph" INTEGER,
"nie:mimeType" TEXT COLLATE NOCASE, "nie:mimeType:graph" INTEGER,
"nie:language" TEXT COLLATE NOCASE, "nie:language:graph" INTEGER,
"nie:plainTextContent" TEXT COLLATE NOCASE, "nie:plainTextContent:graph" INTEGER,
"nie:legal" TEXT COLLATE NOCASE, "nie:legal:graph" INTEGER,
"nie:generator" TEXT COLLATE NOCASE, "nie:generator:graph" INTEGER,
"nie:description" TEXT COLLATE NOCASE, "nie:description:graph" INTEGER,
"nie:disclaimer" TEXT COLLATE NOCASE, "nie:disclaimer:graph" INTEGER,
"nie:depends" INTEGER, "nie:depends:graph" INTEGER,
"nie:links" INTEGER, "nie:links:graph" INTEGER, "nie:copyright" TEXT COLLATE NOCASE,
"nie:copyright:graph" INTEGER, "nie:comment" TEXT COLLATE NOCASE,
"nie:comment:graph" INTEGER, "nie:isStoredAs"
CREATE TABLE "nie:InformationElement_mlo:location" (ID INTEGER NOT NULL, "mlo:location" INTEGER NOT NULL, "mlo:location:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nao:hasProperty" (ID INTEGER NOT NULL, "nao:hasProperty" INTEGER NOT NULL, "nao:hasProperty:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:contributor" (ID INTEGER NOT NULL, "nco:contributor" INTEGER NOT NULL, "nco:contributor:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:creator" (ID INTEGER NOT NULL, "nco:creator" INTEGER NOT NULL, "nco:creator:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasLogicalPart" (ID INTEGER NOT NULL, "nie:hasLogicalPart" INTEGER NOT NULL, "nie:hasLogicalPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasPart" (ID INTEGER NOT NULL, "nie:hasPart" INTEGER NOT NULL, "nie:hasPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:informationElementDate" (ID INTEGER NOT NULL, "nie:informationElementDate" INTEGER NOT NULL, "nie:informationElementDate:graph" INTEGER, "nie:informationElementDate:localDate" INTEGER NOT NULL, "nie:informationElementDate:localTime" INTEGER NOT NULL);
CREATE TABLE "nie:InformationElement_nie:isLogicalPartOf" (ID INTEGER NOT NULL, "nie:isLogicalPartOf" INTEGER NOT NULL, "nie:isLogicalPartOf:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph" INTEGER);

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| Table Name          | ID          | Primary Key | Modulation | Frequency | Modulation Graph | Frequency Graph | Artist Name | Artist Name Graph | Background | Streaming Bitrate | Streaming Bitrate Graph | Encoding | Encoding Graph | Protocol | Protocol Graph | Gain | Gain Graph | Peak Gain | Peak Gain Graph | Album Track Count | Album Track Count Graph | Album Duration | Album Duration Graph | Album Gain | Album Gain Graph | Album Peak Gain | Album Peak Gain Graph | Album Title | Album Title Graph | Album Artist | Album Artist Graph | Number | Number Graph | Disc Album | Disc Album Graph | Number | Number Graph | Set Number | Set Number Graph | Composer | Composer Graph | Lyricist | Lyricist Graph | Beats Per Minute | Beats Per Minute Graph | International Standard Recording Code | International Standard Recording Code Graph | Flash | Flash Graph | Fnumber | Fnumber Graph | Focal Length | Focal Length Graph | Iso Speed | Iso Speed Graph | Metering Mode | Metering Mode Graph | White Balance | White Balance Graph | Is Cropped | Is Cropped Graph |
CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY" INTEGER,
"nmm:radioPTY:graph" INTEGER);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL,
"nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph" INTEGER);
CREATE TABLE "nmm:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:videoAlbum" INTEGER, "nmm:videoAlbum:graph" INTEGER,
"nmm:isSeries" INTEGER, "nmm:isSeries:graph" INTEGER, "nmm:season" INTEGER,
"nmm:season:graph" INTEGER, "nmm:episodeNumber" INTEGER, "nmm:episodeNumber:graph" INTEGER,
"nmm:runTime" INTEGER, "nmm:runTime:graph" INTEGER, "nmm:synopsis" TEXT COLLATE NOCASE,
"nmm:synopsis:graph" INTEGER, "nmm:MPAARating" TEXT COLLATE NOCASE,
"nmm:MPAARating:graph" INTEGER, "nmm:category" TEXT COLLATE NOCASE,
"nmm:category:graph" INTEGER, "nmm:producedBy" INTEGER,
"nmm:producedBy:graph" INTEGER, "nmm:hasSubtitle" INTEGER,
"nmm:hasSubtitle:graph" INTEGER, "nmm:isContentEncrypted" INTEGER,
"nmm:isContentEncrypted:graph" INTEGER, "mtp:fourCC" TEXT COLLATE NOCASE,
"mtp:fourCC:graph" INTEGER, "mtp:waveformat" TEXT COLLATE NOCASE,
"mtp:waveformat:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL,
"mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL,
"nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL,
"nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL,
"nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
"nmo:duration" INTEGER, "nmo:duration:graph" INTEGER);
CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph" INTEGER,
"nmo:lastMessageDate:localDate" INTEGER, "nmo:lastMessageDate:localTime" INTEGER,
"nmo:lastSuccessfulMessageDate" INTEGER,
"nmo:lastSuccessfulMessageDate:graph" INTEGER,
"nmo:lastSuccessfulMessageDate:localDate" INTEGER,
"nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL, "nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER, "nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL, "nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE, "nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER, "nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE, "nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER, "nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER, "nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Message" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER, "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER, "nmo:from" INTEGER, "nmo:from:graph" INTEGER, "nmo:isAnswered" INTEGER, "nmo:isAnswered:graph" INTEGER, "nmo:isDeleted" INTEGER, "nmo:isDeleted:graph" INTEGER, "nmo:isDraft" INTEGER, "nmo:isDraft:graph" INTEGER, "nmo:isRead" INTEGER, "nmo:isRead:graph" INTEGER, "nmo:isSent" INTEGER, "nmo:isSent:graph" INTEGER, "nmo:isEmergency" INTEGER, "nmo:isEmergency:graph" INTEGER, "nmo:htmlMessageContent" TEXT COLLATE NOCASE, "nmo:htmlMessageContent:graph" INTEGER, "nmo:messageId" TEXT COLLATE NOCASE, "nmo:messageId:graph" INTEGER, "nmo:messageSubject" TEXT COLLATE NOCASE, "nmo:messageSubject:graph" INTEGER, "nmo:receivedDate" INTEGER, "nmo:receivedDate:graph" INTEGER, "nmo:receivedDate:localDate" INTEGER, "nmo:receivedDate:localTime" INTEGER, "nmo:replyTo" INTEGER, "nmo:replyTo:graph" INTEGER, "nmo:sender" INTEGER, "nmo:sender:graph" INTEGER, "nmo:conversation" INTEGER, "nmo:conversation:graph" INTEGER, "nmo:communicationChannel" INTEGER, "nmo:communicationChannel:graph" INTEGER,
"tracker:added:localTime" INTEGER, "tracker:modified" INTEGER,
"tracker:modified:graph" INTEGER, "tracker:damaged" INTEGER,
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"dc:subject" TEXT COLLATE NOCASE, "dc:creator:graph" INTEGER,
"dc:subject:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
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"dc:subject" TEXT COLLATE NOCASE, "dc:creator:graph" INTEGER,
"dc:subject:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
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"dc:subject:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
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"dc:subject:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
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"dc:subject:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:subject" TEXT COLLATE NOCASE, "dc:creator:graph" INTEGER,
"dc:subject:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:subject" TEXT COLLATE NOCASE, "dc:creator:graph" INTEGER,
"dc:subject:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:subject" TEXT COLLATE NOCASE, "dc:creator:graph" INTEGER,
"dc:subject:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
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"dc:subject:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
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"dc:subject:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
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"dc:subject:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:subject" TEXT COLLATE NOCASE, "dc:creator:graph" INTEGER,
"dc:subject:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:subject" TEXT COLLATE NOCASE, "dc:creator:graph" INTEGER,
"dc:subject:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:subject" TEXT COLLATE NOCASE, "dc:creator:graph" INTEGER,
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL, "scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL, "scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL, "scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY, "scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT NULL, "scal:alarmAttendee" INTEGER NOT NULL, "scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL, "scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL, "scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL, "scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL, "scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL, "scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY, "scal:recurrencePattern" TEXT COLLATE NOCASE, "scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate"
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY, "scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER, "scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER, "scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY, "slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY, "slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER, "slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT NULL, "slo:belongsToCategory" INTEGER NOT NULL, "slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL, "slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY, "slo:startTime" INTEGER, "slo:startTime:graph" INTEGER, "slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER, "slo:endTime" INTEGER, "slo:endTime:graph" INTEGER, "slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL, "slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph" INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:is Mounted" INTEGER, "tracker:is Mounted: graph" INTEGER,
"tracker: unmount Date" INTEGER, "tracker: unmount Date: graph" INTEGER,
"tracker: unmount Date: local Date" INTEGER,
"tracker: unmount Date: local Time" INTEGER, "tracker: mount Point" INTEGER,
"tracker: mount Point: graph" INTEGER, "tracker: is Removable" INTEGER,
"tracker: is Removable: graph" INTEGER, "tracker: is Optical" INTEGER,
"tracker: is Optical: graph" INTEGER);
CREATE UNIQUE INDEX "mfo: FeedMessage_mfo: enclosureList_ID_ID" ON
"mfo: FeedMessage_mfo: enclosureList" (ID, "mfo: enclosureList");
CREATE UNIQUE INDEX "mlo: GeoBoundingBox_mlo: bbNorthWest_ID_ID" ON
"mlo: GeoBoundingBox_mlo: bbNorthWest" (ID, "mlo: bbNorthWest");
CREATE UNIQUE INDEX "mlo: GeoBoundingBox_mlo: bbSouthEast_ID_ID" ON
"mlo: GeoBoundingBox_mlo: bbSouthEast" (ID, "mlo: bbSouthEast");
CREATE INDEX "mlo: GeoLocation_mlo: asBoundingBox_ID" ON
"mlo: GeoLocation_mlo: asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo: GeoLocation_mlo: asBoundingBox_ID_ID" ON
"mlo: GeoLocation_mlo: asBoundingBox" ("mlo: asBoundingBox", ID);
CREATE INDEX "mlo: GeoLocation_mlo: asGeoPoint_ID" ON
"mlo: GeoLocation_mlo: asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo: GeoLocation_mlo: asGeoPoint_ID_ID" ON
"mlo: GeoLocation_mlo: asGeoPoint" ("mlo: asGeoPoint", ID);
CREATE INDEX "mlo: GeoLocation_mlo: asPostalAddress_ID" ON
"mlo: GeoLocation_mlo: asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo: GeoLocation_mlo: asPostalAddress_ID_ID" ON
"mlo: GeoLocation_mlo: asPostalAddress" ("mlo: asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo: GeoPoint_mlo: address_ID_ID" ON
"mlo: GeoPoint_mlo: address" (ID, "mlo: address");
CREATE UNIQUE INDEX "mlo: GeoPoint_mlo: altitude_ID_ID" ON
"mlo: GeoPoint_mlo: altitude" (ID, "mlo: altitude");
CREATE UNIQUE INDEX "mlo: GeoPoint_mlo: city_ID_ID" ON
"mlo: GeoPoint_mlo: city" (ID, "mlo: city");
CREATE UNIQUE INDEX "mlo: GeoPoint_mlo: country_ID_ID" ON
"mlo: GeoPoint_mlo: country" (ID, "mlo: country");
CREATE UNIQUE INDEX "mlo: GeoPoint_mlo: latitude_ID_ID" ON
"mlo: GeoPoint_mlo: latitude" (ID, "mlo: latitude");
CREATE UNIQUE INDEX "mlo: GeoPoint_mlo: longitude_ID_ID" ON
"mlo: GeoPoint_mlo: longitude" (ID, "mlo: longitude");
CREATE UNIQUE INDEX "mlo: GeoPoint_mlo: state_ID_ID" ON
"mlo: GeoPoint_mlo: state" (ID, "mlo: state");
CREATE UNIQUE INDEX "mlo: GeoPoint_mlo: timestamp_ID_ID" ON
"mlo: GeoPoint_mlo: timestamp" (ID, "mlo: timestamp");
CREATE UNIQUE INDEX "mlo: GeoSphere_mlo: radius_ID_ID" ON
"mlo: GeoSphere_mlo: radius" (ID, "mlo: radius");
CREATE UNIQUE INDEX "mlo: LandmarkCategory_mlo: is Removable_ID_ID" ON
"mlo: LandmarkCategory_mlo: is Removable" (ID, "mlo: is Removable");
CREATE UNIQUE INDEX "mlo: Landmark_mlo: belongsToCategory_ID_ID" ON
CREATE UNIQUE INDEX "mlo:belongsToCategory" (ID, "mlo:belongsToCategory"); CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID" ON "mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation"); CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID, "mlo:boxEastLimit"); CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID, "mlo:boxNorthLimit"); CREATE UNIQUE INDEX "mlo:boxSouthWestCorner" (ID, "mlo:boxSouthWestCorner"); CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID, "mlo:boxVerticalLimit"); CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON "mlo:Route_mlo:endTime" (ID, "mlo:endTime"); CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON "mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails"); CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON "mlo:Route_mlo:startTime" (ID, "mlo:startTime"); CREATE UNIQUE INDEX "mto:transferList" (ID, "mto:transferList"); CREATE UNIQUE INDEX "mto:transferPrivacyLevel" (ID, "mto:transferPrivacyLevel"); CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON "mto:UploadTransfer_mto:transferCategory" (ID, "mto:transferCategory"); CREATE UNIQUE INDEX "nao:isDefaultTag" (ID, "nao:isDefaultTag"); CREATE UNIQUE INDEX "nao:tagRelatedTo" (ID, "nao:tagRelatedTo"); CREATE UNIQUE INDEX "ncal:action" (ID, "ncal:action"); CREATE UNIQUE INDEX "ncal:bydayModifier" (ID, "ncal:bydayModifier"); CREATE UNIQUE INDEX "ncal:bydayWeekday" (ID, "ncal:bydayWeekday"); CREATE UNIQUE INDEX "ncal:calendarComponent" (ID, "ncal:calendarComponent"); CREATE UNIQUE INDEX "ncal:freebusy" (ID, "ncal:freebusy"); CREATE UNIQUE INDEX "ncal:byday" (ID, "ncal:byday"); CREATE UNIQUE INDEX "ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee" ON "ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories" ON "ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate" ON "ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule" ON "ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm" ON "ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation" ON "ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate" ON "ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild" ON "ncal:UnionParentClass_ncal:relatedToChild" (ID, "ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent" ON "ncal:UnionParentClass_ncal:relatedToParent" (ID, "ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources" ON "ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule" ON "ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title" ON "nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact" ON "nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_nco:anniversary" ON "nco:Contact_nco:anniversary" (ID, "nco:anniversary");
CREATE UNIQUE INDEX "nco:Contact_nco:birthday" ON
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON "nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON "nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON "nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");
CREATE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON "nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");
CREATE INDEX "nmm:MusicPiece_nmm:musicAlbum" ON "nmm:MusicPiece" ("nmm:musicAlbum");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece" ("nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON "nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON "nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON "nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON "nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON "nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE UNIQUE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" ("nmo:hasParticipant", ID);
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON "nmo:CommunicationChannel" ("nmo:lastMessageDate");
CREATE UNIQUE INDEX "nmo:Email_nmo:contentMimeType_ID_ID" ON "nmo:Email_nmo:contentMimeType" (ID, "nmo:contentMimeType");
CREATE UNIQUE INDEX "nmo:Message_nmo:bcc_ID_ID" ON "nmo:Message_nmo:bcc" (ID, "nmo:bcc");
CREATE UNIQUE INDEX "nmo:Message_nmo:cc_ID_ID" ON "nmo:Message_nmo:cc" (ID, "nmo:cc");
CREATE INDEX "nmo:Message_nmo:communicationChannel" ON "nmo:Message" ("nmo:communicationChannel", "nmo:receivedDate");
CREATE INDEX "nmo:Message_nmo:conversation" ON "nmo:Message" ("nmo:conversation");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON "nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON...
"nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON
"nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON
"nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON
"nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to"
("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON
"nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON
"nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX
"nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID" ON
"nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID,
"nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX
"nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON
"nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID,
"nmo:containsPhoneMessage");
CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON
"nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
CREATE UNIQUE INDEX "rdf:Property_rdfs:subPropertyOf_ID_ID" ON
"rdf:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON
"rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf");
CREATE UNIQUE INDEX "rdfs:Class_tracker:domainIndex_ID_ID" ON
"rdfs:Class_tracker:domainIndex" (ID, "tracker:domainIndex");
CREATE UNIQUE INDEX "rdfs:Resource_dc:contributor_ID_ID" ON
"rdfs:Resource_dc:contributor" (ID, "dc:contributor");
CREATE UNIQUE INDEX "rdfs:Resource_dc:date_ID_ID" ON
"rdfs:Resource_dc:date" (ID, "dc:date");
CREATE UNIQUE INDEX "rdfs:Resource_dc:relation_ID_ID" ON
"rdfs:Resource_dc:relation" (ID, "dc:relation");
CREATE UNIQUE INDEX "rdfs:Resource_dc:source_ID_ID" ON
"rdfs:Resource_dc:source" (ID, "dc:source");
CREATE UNIQUE INDEX "rdfs:Resource_nao:deprecated_ID_ID" ON
"rdfs:Resource_nao:deprecated" (ID, "nao:deprecated");
CREATE INDEX "rdfs:Resource_nao:hasTag_ID" ON "rdfs:Resource_nao:hasTag" (ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:hasTag_ID_ID" ON
"rdfs:Resource_nao:hasTag" ("nao:hasTag", ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:isRelated_ID_ID" ON
"rdfs:Resource_nao:isRelated" (ID, "nao:isRelated");
CREATE UNIQUE INDEX "rdfs:Resource_rdf:type_ID_ID" ON
CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource" ("tracker:added")
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON
"scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from")
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON
"scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to")
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON
"scal:Attendee_scal:member" (ID, "scal:member")
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON
"scal:Attendee_scal:sent-by" (ID, "scal:sent-by")
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON
"scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON
"scal:CalendarItem_scal:access" (ID, "scal:access")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON
"scal:CalendarItem_scal:attachment" (ID, "scal:attachment")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID" ON
"scal:CalendarItem_scal:belongsToCalendar" (ID, "scal:belongsToCalendar")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON
"scal:CalendarItem_scal:contact" (ID, "scal:contact")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON
"scal:CalendarItem_scal:rrule" (ID, "scal:rrule")
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation"
("slo:postalAddress")
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON
"slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory")
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON
"slo:Landmark_slo:hasContact" (ID, "slo:hasContact")
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON
"slo:Route_slo:routeDetails" (ID, "slo:routeDetails")
EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE,
(SELECT "nco:nameFamily" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE,
(SELECT "nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE,
(SELECT "nco:nameAdditional" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE,
(SELECT "nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE,
(SELECT "nco:nameHonorificSuffix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE,
strptime("%s", (SELECT "nco:birthDate" FROM "nco:Contact" WHERE ID = "1_u")),
(SELECT "nie:url" FROM "nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM "nco:Contact" WHERE ID = "1_u"))) COLLATE NOCASE,
"nco:PersonContact_nco:hasAffiliation11"."ID" AND
"nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" =
"nco:Role_nco:hasPostalAddress12"."ID"), (SELECT
GROUP_CONCAT("10_u" COLLATE NOCASE, ',') FROM (SELECT
"nie:InformationElement_nao:hasProperty13"."nao:hasProperty" AS
"8_u", "nao:Property14"."nao:propertyName" AS "9_u",
"nao:Property14"."nao:propertyValue" AS "10_u" FROM
"nie:InformationElement_nao:hasProperty" AS
"nie:InformationElement_nao:hasProperty13", "nao:Property" AS
"nie:InformationElement_nao:hasProperty13"."nao:Property" AS
"nao:Property14" WHERE "1_u" =
"nie:InformationElement_nao:hasProperty13"."ID" AND
"nie:InformationElement_nao:hasProperty13"."nao:hasProperty" =
"nao:Property14"."ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE)) FROM (SELECT
"nco:PersonContact1"."ID" AS "1_u" FROM "nco:PersonContact" AS
"nco:PersonContact1") ORDER BY "1_u";
} } {/* Goto */}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

without a shared lock, other processes are free to modify the database

Found in path(s):
No license file was found, but licenses were detected in source scan.

<h3>Proprietary SQLite Extensions</h3>
<a href="copyright.html">public domain</a>. But there also exist proprietary, licensed extensions to SQLite, written and maintained
You are welcomed to use SQLite in closed source, proprietary, and/or

Found in path(s):
No license file was found, but licenses were detected in source scan.

)putinterval

Found in path(s):
*/1 index 0(BadFont
Suppose the demo_data.boundary field holds some proprietary data description.

No license file was found, but licenses were detected in source scan.

Sources are in the public domain.

Rather than using fopen() to write XML or some proprietary format into

No license file was found, but licenses were detected in source scan.

# 2006 September 14

# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS2 module.
#
# $Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp$
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts2c-1.1 {
    db eval {

CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transactionVolume Hedged
1 - 24990
2500 - 54995000
5500 - 64996000);
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/);
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,
I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,
Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >>  << File: mccartyBonusCommercial_UnP.xls >>
'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,'), 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.');

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook), 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

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- OUTAGE.dbf
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "'chris.germany@enron.com'" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know. ?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com,
As discussed in the Winter Operations Meeting on Sept. 29, 2000, E-Gas (Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations (daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

Here is a goody for you:

Marketers and Poolers can receive gas via Peaking and IBSS nominations (daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira);

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JM Forney
3-7160;

FW: Curve Fetch File, 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.
-----Original Message-----
From: Royed, Jeff
Sent:Tuesday, September 25, 2001 11:37 AM
To:Bayer, Adam
Subject:Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"

"Mankarious (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)"

cc:
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
  
');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',
'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.................................

Thanks
---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM -----------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com',
'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their
calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE: i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,','Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE][IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854

Marcie, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch);
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com',
'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter
Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from
California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert.
He has now handed them to him in person but asked me to transmit them
electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',
dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
  Finalize market analysis to refine business case, specifically
  projected revenue stream
  Complete counterparty surveying, including targeting 3 CPs for letters
  of intent
Review Enron asset base for potential reuse/licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM --------------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc: 
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

');
INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '---------------------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM --------------------------

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution''s Capacity Available for Release - Sum

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
');
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,','Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net, ', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', ' 

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.
');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,','email address change', 'Hello all.
I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2)', 'San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

We will send you another e-mail to confirm when the Law Conference Website is operational.

Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

Re: hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though);
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.
From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

INSERT INTO email(from, to, subject, body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,';

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

INSERT INTO email(from, to, subject, body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,'; 'Postings', 'Please see the attached.

ds

');
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky  
Director, Southwest Region  
Anti-Defamation League  
713/627-3490, ext. 122  
713/627-2011 (fax)  
MCominsky@aol.com;

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard  
Senior Legal Specialist  
Enron North America Corp.  
Phone: (713) 853-3907  
Fax: (713) 646-3490  
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441


INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....www.gorelieberman-2000.com/

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).

This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two
1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
   included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on
new gen.

Please let me know if you have any questions or feedback.

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

')
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com',
'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
')
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com',
'c..kenne@enron.com', 'RE:
What about this too???, '

----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

<< File: Netco Trader Matrix.xls >>
')
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com',
joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris

x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax  713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & ?', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',)
'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.'');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corpAlbert LaMore281-366-4962

running the reports now
give me a contact over there too
BP

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start
Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary
schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->>> O:\Portland\WestDesk\California Scheduling\ISO Final
Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big
day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to
get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'tschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week—I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15...talk to you';

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', ", 'Lite Bytz RSVP', '
This week's Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event—so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyztolozprint.jpg';

   COMMIT;

} {}
execsql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
} {}
}
do_test fts2c-1.7 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
} {24}
do_test fts2c-1.9 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts2c-2.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.4 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
} {20 {2 0 42 3 2 1 54 8}}
do_test fts2c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only # 3 of them are paired with "product". Make sure only those instances # that match the phrase appear in the offsets(email) list.
#
do_test fts2c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts2c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#

do_test fts2c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts2c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}
do_test fts2c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
    Review Enron asset base for <b>potential</b> <b>reuse</b>/ licensing}}
OPEN SOURCE USED IN SDWAN 20.7.1  23332

Contract negotiations <b>...</b>{}{}
do_test fts2c-4.4 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
    Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations  }}
do_test fts2c-4.5 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the  }}
do_test fts2c-4.6 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
}
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick??
Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas
eve?? They have an 11:00 a.m. <b>...</b>{}
do_test fts2c-4.7 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
}
} {{Erin:
<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>{}
do_test fts2c-4.8 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
}
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
Variances detected.
Variances detected in <b>Load</b> schedule.

LOG MESSAGES:

PARSING <b>...</b>{}

# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
} {}
} {} {matt.smith@enron.com} ...

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...
}
do_test fts2c-5.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
} {}
} {} {matt.smith@enron.com} ...

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

INSERT INTO x1 VALUES('blonds', 'proprietary');

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
##
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
##
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module.
# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts1c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

        The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

        ?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
        ?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
        ?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

        Please see example below:

        Parent's Settings:
        Minimum: 5000
        Increment: 1000

        Volume on Autohedge transaction Volume Hedged
        1    - 24990
        2500 - 54995000
        5500 - 64996000);
        INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.');
Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);

Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');

Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would
be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey);

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well. Thanks.

Dan
-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >>  << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER.  SO FAR I HAVE THEM FOR LEAF.  I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH.  ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com.', 'TRV Notification:  (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&tV1=5&tv1Exp=Y&current_ect_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!).  Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim
Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic:  Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch. Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "''chris.germany@enron.com''" <chris.germany@enron.com>
cc:
Subject: About St Pauls

Sounds good to me. I bet this is next to the Warick?? Hotel. 
Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

Here is a goody for you:

---

LS HPL LSK IC 30.000 / Enron

---
Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn"t know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2


The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '---------------------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM ---------------------------

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
c:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done..................................

Thanks

---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
c: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books
We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: +44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,
I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]

[i mage][i mage][i mage]

Dear SmartReminders Member,
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash Report Name: Houston Cellular 8-11-01 Report Date: 12/13/01 Report ID: 594D37C9ED2111D5B452 Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.’);

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for’, ‘FYI the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax: (415) 782-7854
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

----------------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 -----------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them
electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
- Finalize market analysis to refine business case, specifically projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters of intent
- Review Enron asset base for potential reuse/licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.
agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: "    -    *Koch, Kent" <kkoch@nisource.com>, "    -    *Millar, Debra" <dmillar@nisource.com>, "    -    *Burke, Lynn"<lburke@nisource.com>
cc: "    -    *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution"s Capacity Available for Release - Sum

Attached is Columbia Distribution"s notice of capacity available for release for

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives
listed
at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');

-------Original Message------
From: Punja, Karim
Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
e-mail: kpunja@hotmail.com

Take Care,

Karim.

'):
INSERT INTO email([from],[to],[subject],[body]) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com', 'email address change', 'Hello all.
I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],[subject],[body]) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],[subject],[body]) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2)', ' 2001 Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.
We will send you another e-mail to confirm when the Law Conference Website is operational.

Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT

Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:
EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey);
INSERT INTO email([from],[to],subject,`body`) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,' 'Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,`body`) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL”s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com);
INSERT INTO email([from],[to],subject,`body`) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush”s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.
PL');
INSERT INTO email([from],[to],subject,`body`) VALUES('marie.heard@enron.com', 'echamilton@fna.com', 'ISDA Master Agreement', 'Erin:
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard  
Senior Legal Specialist  
Enron North America Corp.  
Phone: (713) 853-3907  
Fax: (713) 646-3490  
marie.heard@enron.com

";
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

");
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Thank you,
Karolyn Criado
3-9441

");
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.
"
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.
Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

www.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqeste@aol.com', '', 'Jacques,
I sent you a fax of Kevin Kolb's comments on the release. The payoff on the note would be $36,248
($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two
links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
   included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com',
'FW: Current Enron TCC Portfolio','

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com','william.brADFord@enron.com, debbie.brackett@enron.com,','Coastal Merchant Energy/El Paso Merchant Energy','Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');

INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, ')

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

<< File: Netco Trader Matrix.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY:APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date:1/5/2001
Time:9:00 AM - 10:00 AM (Central Standard Time)

Chairperson:Outlook Migration Team
Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG);
U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp
Albert LaMore
281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah
713-767-5374
Reliant
Steve McGinn
713-207-4000

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>','Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variance detected.
Variance detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt
--- Load Schedule ---

$$$ Variance found in table tblLoads.

- Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
- TRANS_TYPE: FINAL
- LOAD_ID: PGE4
- MKT_TYPE: 2
- TRANS_DATE: 4/22/01
- SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re: ', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', ", 'Lite Bytz RSVP',
This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyzttoolzprint.jpg');

COMMIT;

{}
```sql
SELECT rowid FROM email WHERE email MATCH 'mark'
}
} {6 17 25 38 40 42 73 74}
do_test fts1c-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}
do_test fts1c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts1c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts1c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
  }
} {}
do_test fts1c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts1c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE email MATCH 'gas reminder'
  }
```

do_test fts1c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
}

do_test fts1c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
}

do_test fts1c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
}

do_test fts1c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
# do_test fts1c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
}

do_test fts1c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
  }
}

# Snippet generator tests
#
# do_test fts1c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
  }
}

WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts1c-4.2 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'christmas candlelight'
}
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>
eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m.,
among others. <b>...</b>}}
do_test fts1c-4.3 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
Review Enron asset base for <b>potential</b> <b>reuse</b>/ licensing
Contract negotiations <b>...</b>}}
do_test fts1c-4.4 {
execsql {
SELECT snippet(email,'<<<','>>>',' ') FROM email
WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
Contract negotiations }}
do_test fts1c-4.5 {
execsql {
SELECT snippet(email,'<<<','>>>',' ') FROM email
WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}
do_test fts1c-4.6 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'chris is here'
}
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick??
Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas
eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts1c-4.7 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH '"pursuant to"'
}
} {{Erin:

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Pursuant to your request, attached are the Schedule to

```
do_test fts1c-4.8 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
Variances detected.
Variances detected in <b>Load</b> schedule.

LOG MESSAGES:

PARSING ...
```
SQLite is open source, and is available in the public domain

application code is free to use these routines as well, if desired.

MMFauxFont.prc

<html>
<body bgcolor="white">
<p>FOR IMMEDIATE RELEASE:</p>
<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's most deployed SQL database engine</h3>
Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.

# # #
About SQLite

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.

CONTACT INFORMATION:
SQLite Consortium
Dr. D. Richard Hipp
6200 Maple Cove Lane
Charlotte, NC 28269
Email: drh@sqlite.org
http://www.sqlite.org/
Tel: +1.704.948.4565

About Mozilla

Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.

CONTACT INFORMATION:
Mozilla Corporation
Jessica Waight
Tel: +1.415.345.4754
Email: jwaight@outcastpr.com

About Symbian Limited

Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.
Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.

CONTACT INFORMATION:
Symbian Global Press Office
Karen Hamblen
+44 207 154 1707
press@symbian.com

The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

SQLite core and like the SQLite core are in the public domain. The <b><a href="th3.html">TH3</a></b> test harness is a set of proprietary tests, written in

/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/
application is free to use the same <a href="../c3ref/sqlite3.html">database connection</a> or the

*/
** The "printf" code that follows dates from the 1980's. It is in
** the public domain. The original comments are included here for
** completeness. They are very out-of-date but might be useful as
** an historical reference. Most of the "enhancements" have been backed
** out so that the functionality is now the same as standard printf().
**
**************************************************************************
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/

other proprietary or non-standard VFSes.

<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">SQLite Consortium Agreement</h1>

Open Source Used In SDWan 20.7.1 23366
This SQLite Consortium Agreement ("Agreement") is made and entered into as of the _____ day of ______________, 2007 ("Effective Date") by and between ___________________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").

WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at http://www.sqlite.org/ ("SQLite"); and

WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

1.3 Consortium Member

A "Consortium Member" is a company or organization, including...
but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

<h2>2.0 Agreement</h2>

<h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>

<h4>2.1.1 General Support</h4>
<p>The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.</p>

<h4>2.1.2 Debugging Support</h4>
The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

<h4>2.1.3 Custom Development</h4>
The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

<h4>2.1.6 Custom Testing</h4>
The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company.
These acceptance tests shall be run and shall pass prior to any release of SQLite.

<h4>2.1.7 Priority Bug Fixes</h4>
<p>The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.</p>

<h4>2.1.8 Code Quality</h4>
<p>The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.</p>

<h4>2.1.9 Backwards Compatibility</h4>
<p>The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.</p>

<h4>2.1.10 Test Coverage</h4>
<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.</p>

<h4>2.1.11 Website</h4>
<p>The SQLite Developers shall maintain the SQLite website at http://www.sqlite.org/ in good working order and all SQLite source code shall be made freely available at such website.</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.</p>

<h4>2.2.2 Direction</h4>
<p>The SQLite Architect shall coordinate the activities of SQLite
Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.

<h4>2.2.3 Oversight</h4>
<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.
</p>

<h4>2.2.4 Continuity</h4>
<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.
</p>

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.
</p>

<h4>2.3.2 Responsible Party</h4>
<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.
</p>

<h4>2.3.3 Multiple Developers</h4>
<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement.

So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.
</p>

<h4>2.3.4 Mentorship</h4>
<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.
</p>
<h4>2.3.5 Audits</h4>
Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.

<h4>2.3.6 Disaster Planning</h4>
Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.

<h4>2.3.7 Trademark</h4>
Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the http://www.sqlite.org/ website.

<h4>2.3.8 No Take-overs or Buy-outs</h4>
Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.

<h4>2.3.9 New Consortium Members</h4>
New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.

<h4>2.3.10 Adequate Staff</h4>
Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.
2.3.11 Use Of Funds

Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

2.4 Responsibilities And Obligations Of Company

2.4.1 Funding

Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".

2.4.2 Copyright Disclaimer

Company acknowledges that SQLite source code and documentation published on the SQLite website is in the public domain and that nothing in this agreement shall change that fact.

3.0 Fees

In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.

4.0 Confidentiality

4.1 Definition of Confidential Information

"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.

4.2 Non-Use and Non-Disclosure

Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever.
other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

<h4>4.2.1 Disclosure Required by Law</h4>
In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

<h3>4.3 Return of Materials.</h3>

Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>
Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.

5.2 Availability and Public Domain Dedication

The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain. To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers’ and Hwaci’s rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.

5.3 Trademark

Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.

6.0 Representations And Warranties

6.1 Intellectual Property Clearances.
<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.</p>

<h3>7.2 Termination.</h3>

<p>If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.</p>

<h3>7.3 Survival.</h3>

<p>Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.</p>

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>
The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.

8.2 Notices.

Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

8.3 Waiver.

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.

8.4 Severability.
If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.

8.5 Integration.

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.

8.6 Counterparts.

This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.

8.7 Governing Law.

This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.

8.8 Independent Contractors.

It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.

9.0 Signatures
The parties have executed this Agreement below to indicate their acceptance of its terms.

Found in path(s):

No license file was found, but licenses were detected in source scan.

/*
 ** 2004 May 22
 **
 ** The author disclaims copyright to this source code. In place of
 ** a legal notice, here is a blessing:
 **
 **  May you do good and not evil.
 **  May you find forgiveness for yourself and forgive others.
 **  May you share freely, never taking more than you give.
 **
 **icional implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.

**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.

**
** The layout of divisions is as follows:

**
**  * General-purpose declarations and utility functions.
**  * Unique file ID logic used by VxWorks.
**  * Various locking primitive implementations (all except proxy locking):
**     + for Posix Advisory Locks
**     + for no-op locks
**     + for dot-file locks
**     + for flock() locking
**     + for named semaphore locks (VxWorks only)
**     + for AFP filesystem locks (MacOSX only)
**  * sqlite3_file methods not associated with locking.
**  * Definitions of sqlite3_io_methods objects for all locking
**     methods plus "finder" functions for each locking method.
**  * sqlite3 vfs method implementations.
**  * Locking primitives for the proxy uber-locking-method. (MacOSX only)
**  * Definitions of sqlite3 vfs objects for all locking methods
**     plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
Open Source Used In SDWan 20.7.1 23380

/*

Found in path(s):
No license file was found, but licenses were detected in source scan.

2.31 0
1.23 0
1.0 0

Found in path(s):
* %%% Version
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<a href="http://en.wikipedia.org/wiki/Public_Domain">public domain</a>
the public domain and originals of author, and all of those authors have public domain dedications
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in this code to the public domain. We make this dedication for the benefit

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# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
# #
# # May you do good and not evil.
# # May you find forgiveness for yourself and forgive others.
# # May you share freely, never taking more than you give.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

do_test func-0.0 {
  execsql {CREATE TABLE tbl1(t1 text)}
  foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES($word)"
  }
  execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
  execsql {
    CREATE TABLE t2(a);
    INSERT INTO t2 VALUES(1);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(345);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(67890);
    SELECT * FROM t2;
  }
} {1 {} 345 {} 67890}

do_test func-1.0 {
  execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
  set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
  set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
  execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
           ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
  execsql {SELECT coalesce(length(a),-1) FROM t2}
# Check out the `substr()` function
#
do_test func-2.0 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
  execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
  execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
  execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
  execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
  execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
  execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
  execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
  execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
  execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {"u1234"!="u1234"} {

# Put some UTF-8 characters in the database
#
do_test func-3.0 {
  execsql {DELETE FROM tbl1}
  foreach word "contains UTF-8 characters hiiu1234ho" {
    execsql "INSERT INTO tbl1 VALUES('Sword')"
do_test func-3.1 {
  execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hiሴho"

do_test func-3.2 {
  execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}

do_test func-3.3 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}

do_test func-3.4 {
  execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"

do_test func-3.5 {
  execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"

do_test func-3.6 {
  execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"

do_test func-3.7 {
  execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"

do_test func-3.8 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"

do_test func-3.9 {
  execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"

do_test func-3.10 {
  execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- er in \u1234h"

do_test func-3.99 {
  execsql {DELETE FROM tbl1}
  foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql {SELECT t1 FROM tbl1}
} {this program is free software}

#: End \u1234!=\u1234

# Test the abs() and round() functions.
#
if capable !floatingpoint {
  do_test func-4.1 {
    execsql {

CREATE TABLE t1(a,b,c);
INSERT INTO t1 VALUES(1,2,3);
INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
INSERT INTO t1 VALUES(3,-2,-5);
}
catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
do_test func-4.1 {
execsql {
    CREATE TABLE t1(a,b,c);
    INSERT INTO t1 VALUES(1,2,3);
    INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
    INSERT INTO t1 VALUES(3,-2,-5);
    }
catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
do_test func-4.2 {
catchsql {SELECT abs() FROM t1}
} {1 {wrong number of arguments to function abs()}}
ifcapable floatingpoint {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 1.2345678901234 2}}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 12345.6789 5}}
}
ifcapable !floatingpoint {
if {[working_64bit_int]} {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 1.2345678901234 2}}
}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 1234567890 5}}
}
do_test func-4.4.1 {
execsql {SELECT abs(a) FROM t2}
} {1 {345 67890}}
do_test func-4.4.2 {
execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
ifcapable floatingpoint {
do_test func-4.5 {
  catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
  catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 {2.0 1.23 2.0}}
do_test func-4.7 {
  catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2.0 1.0 -2.0}}
do_test func-4.8 {
  catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3.0 -12346.0 -5.0}}
do_test func-4.9 {
  catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 {3.0 -12345.68 -5.0}}
do_test func-4.10 {
  catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.0y}}
do_test func-4.11 {
  catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
  execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
  execsql {SELECT round(t1,2) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
  execsql {SELECT typeof(round(5.1,1));}
} {real}
do_test func-4.15 {
  execsql {SELECT typeof(round(5.1));}
} {real}
do_test func-4.16 {
  catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
} {0 {2.0 1.23 2.0}}
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
  set x1 [expr 40222.5 + $i]
  set x2 [expr 40223.0 + $i]
  do_test func-4.17.$i {
    execsql {SELECT round($x1);}
  } $x2
}
for {set i 1} {$i<999} {incr i} {
  set x1 [expr 40222.5 + $i]
  set x2 [expr 40223.0 + $i]
  do_test func-4.17.$i {
    execsql {SELECT round($x1);}
  } $x2
}
set x1 [expr 40222.05 + $i]
set x2 [expr 40222.10 + $i]
do_test func-4.18.$i {
    execsql {SELECT round($x1,1);}
} $x2
}
do_test func-4.20 {
    execsql {SELECT round(40223.499999999999999);}
} {40223.0}
do_test func-4.21 {
    execsql {SELECT round(40224.499999999999999);}
} {40224.0}
do_test func-4.22 {
    execsql {SELECT round(40225.499999999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
    do_test func-4.23.$i {
        execsql {SELECT round(40223.499999999999999,$i);}
} {40223.5}
do_test func-4.24.$i {
    execsql {SELECT round(40224.499999999999999,$i);}
} {40224.5}
do_test func-4.25.$i {
    execsql {SELECT round(40225.499999999999999,$i);}
} {40225.5}
}
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.499999999999999,$i);}
} {40223.499999999999999}
do_test func-4.27.$i {
    execsql {SELECT round(40224.499999999999999,$i);}
} {40224.499999999999999}
do_test func-4.28.$i {
    execsql {SELECT round(40225.499999999999999,$i);}
} {40225.499999999999999}
}
do_test func-4.29 {
    execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
    execsql {SELECT round(12345678901.5);}
} {12345678902.0}
do_test func-4.31 {
    execsql {SELECT round(123456789012.5);}
} {123456789013.0}
do_test func-4.32 {
    execsql {SELECT round(1234567890123.5);}
}
do_test func-4.33 {
  execsql {SELECT round(12345678901234.5);}
} {12345678901235.0}
do_test func-4.34 {
  execsql {SELECT round(1234567890123.35,1);}
} {1234567890123.4}
do_test func-4.35 {
  execsql {SELECT round(1234567890123.445,2);}
} {1234567890123.45}
do_test func-4.36 {
  execsql {SELECT round(99999999999994.5);}
} {99999999999995.0}
do_test func-4.37 {
  execsql {SELECT round(9999999999999.55,1);}
} {9999999999999.6}do_test func-4.38 {
  execsql {SELECT round(9999999999999.556,2);}
} {9999999999999.56}
}

# Test the upper() and lower() functions
#
do_test func-5.1 {
  execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
  execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
  execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
ifcapable !icu {
  do_test func-5.4 {
    catchsql {SELECT upper(a,5) FROM t2}
  } {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
  catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
  execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
  execsql {SELECT coalesce(upper(a),'nil') FROM t2}
do_test func-6.3 {
  execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
  execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
  execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}

# Test the last_insert_rowid() function
#
do_test func-7.1 {
  execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql {EXPLAIN SELECT sum(a) FROM t2;}
  }
  execsql {
    SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
  }
} {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql {EXPLAIN SELECT sum(a) FROM t2;}
  }
  execsql {
    SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
  }
} {68236 3 22745.0 1 67890 5}
}
do_test func-8.2 {
  execsql {
    SELECT max('z+''a''|abcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZabcdefgijklmph

ifcapable tempdb {
do_test func-8.3 {

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execsql { 
  CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
  SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
else {
  do_test func-8.3 { 
    execsql { 
      CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
      SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
    } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
  } 
} do_test func-8.4 { 
  execsql { 
    SELECT max('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
  } {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
} ifcapable compound { 
  do_test func-8.5 { 
    execsql { 
      SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
                        UNION ALL SELECT -9223372036854775807)
    } {0}
  } do_test func-8.6 { 
    execsql { 
      SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
                                  UNION ALL SELECT -9223372036854775807)
    } {integer}
  } do_test func-8.7 { 
    execsql { 
      SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
                                  UNION ALL SELECT -9223372036854775807)
    } {real}
  } ifcapable floatingpoint { 
    do_test func-8.8 { 
      execsql { 
        SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
                                 UNION ALL SELECT -9223372036854775807)
      } {1}
    } 
  } ifcapable !floatingpoint { 
    do_test func-8.8 { 
      execsql { 
      } 
    } 
  }
SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
    UNION ALL SELECT -9223372036850000000)

# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
    execsql {
        SELECT random() is not null;
    }
} {1}
do_test func-9.2 {
    execsql {
        SELECT typeof(random());
    }
} {integer}
do_test func-9.3 {
    execsql {
        SELECT randomblob(32) is not null;
    }
} {1}
do_test func-9.4 {
    execsql {
        SELECT typeof(randomblob(32));
    }
} {blob}
do_test func-9.5 {
    execsql {
        SELECT length(randomblob(32)), length(randomblob(-5)),
            length(randomblob(2000))
    }
} {32 1 2000}

# The "hex()" function was added in order to be able to render blobs
# generated by randomblob(). So this seems like a good place to test
# hex().
#
if capable bloblit {
    do_test func-9.10 {
        execsql {SELECT hex(x'00112233445566778899aAbBeCdDeEfF')}
    } {00112233445566778899AABBCCDDEEFF}
} set encoding [db one {PRAGMA encoding}]
if {$encoding="UTF-16le"} {
    do_test func-9.11-utf16le {

execsql {SELECT hex(replace('abcdefg','ef','12'))}
} {61062006306400310032006700}
do_test func-9.12-utf16le {
  execsql {SELECT hex(replace('abcdefg','\','12'))}
} {61062006306400506600660700}
do_test func-9.13-utf16le {
  execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
} {610610061006106100620063006400650066006700}
} elseif {$encoding=="UTF-8"} {
  do_test func-9.11-utf8 {
  execsql {SELECT hex(replace('abcdefg','ef','12'))}
} {61626364313267}
do_test func-9.12-utf8 {
  execsql {SELECT hex(replace('abcdefg','\','12'))}
} {61626364656667}
do_test func-9.13-utf8 {
  execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
} {6161616161626364656667}
}

# Use the "sqlite_register_test_function" TCL command which is part of
# the test fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
  catchsql {
    SELECT testfunc(NULL,NULL);
  }
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
  execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL);
  }
} {1234}
do_test func-10.3 {
  execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL);
  }
} {{{}}}
if incapable floatingpoint {
  do_test func-10.4 {
    execsql {
      SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'double', 1.234);
    }
  } {1.234}
  do_test func-10.5 {
    execsql {
      SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'int', 1234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'string', NULL, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'int', 1234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'double', 1.234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'string', NULL, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'double', 1.234);
    }
  } {1.234}
}

# Test the built-in sqlite_version(*) SQL function.
#
# do_test func-11.1 {
execsql {
  SELECT sqlite_version(*);
}
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text() etc. are called. These tests use two special user-defined functions (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the text form of that argument. A destructor is associated with the return value. Function test_destructor_count() returns the number of outstanding destructor calls for values returned by test_destructor().
#
if {[db eval {PRAGMA encoding}]=="UTF-8"} {

do_test func-12.1-utf8 {
  execsql {
    SELECT testDestructor('hello world'), testDestructor_count();
  } {{hello world} 1}
} else {
  ifcapable utf16 {
    do_test func-12.1-utf16 {
      execsql {
        SELECT testDestructor16('hello world'), testDestructor_count();
      } {{hello world} 1}
    }
  }
}
do_test func-12.2 {
  execsql {
    SELECT testDestructor_count();
  } {0}
do_test func-12.3 {
  execsql {
    SELECT testDestructor('hello') || 'world';
  } {{hello world}}
do_test func-12.4 {
  execsql {
    SELECT testDestructor_count();
  } {0}
do_test func-12.5 {
  execsql {
    CREATE TABLE t4(x);
    INSERT INTO t4 VALUES(testDestructor('hello'));
    INSERT INTO t4 VALUES(testDestructor('world'));
    SELECT min(testDestructor(x)), max(testDestructor(x)) FROM t4;
  } {{hello world}}
do_test func-12.6 {
  execsql {
    SELECT testDestructor_count();
  } {0}
do_test func-12.7 {
  execsql {
    DROP TABLE t4;
  }
} {}}
# Test that the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds,
# `test_auxdata()`. Function `test_auxdata()` takes any number of arguments.

do_test func-13.1 {
  execsql {
    SELECT `test_auxdata('hello world')`;
  }
} {0}

do_test func-13.2 {
  execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
  }
}

do_test func-13.3 {
  execsql {
    SELECT `test_auxdata('hello world')` FROM t4;
  }
} {0 1}

do_test func-13.4 {
  execsql {
    SELECT `test_auxdata('hello world', 123)` FROM t4;
  }
} {{0 0} {1 1}}

do_test func-13.5 {
  execsql {
    SELECT `test_auxdata('hello world', a)` FROM t4;
  }
} {{0 0} {1 0}}

do_test func-13.6 {
  execsql {
    SELECT `test_auxdata('hello world', a)` FROM t4;
  }
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
  set DB [sqlite3_connection_pointer db]
  set sql "$\text{"SELECT test_auxdata( ? , a ) FROM t4;"}
  set STMT [sqlite3_prepare $DB $sql -1 TAIL]
  sqlite3_bind_text $STMT 1 hello\000 -1
  set res [list]
  while { "$\text{"SQLITE_ROW"==}[sqlite3_step $STMT]" } {
    lappend res [sqlite3_column_text $STMT 0]
  }
}
# Make sure that a function with a very long name is rejected
do_test func-14.1 {
    catch {
        db function [string repeat X 254] {return "hello"}
    }
} {0}
do_test func-14.2 {
    catch {
        db function [string repeat X 256] {return "hello"}
    }
} {1}
do_test func-15.1 {
    catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
    catchsql {select test_error('this is the error message')} 
} {1 {this is the error message}}
do_test func-15.3 {
    catchsql {select test_error('this is the error message','12')} 
} {1 {this is the error message}}
do_test func-15.4 {
    db errorcode
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
    execsql {
        CREATE TABLE tbl2(a, b);
    }
    set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
    sqlite3_bind_blob $::STMT 1 abc 3
    sqlite3_step $::STMT
    sqlite3_finalize $::STMT
    execsql {
        SELECT quote(a), quote(b) FROM tbl2;
    }
} {X'616263' NULL}

# Correctly handle function error messages that include %.
# Ticket #1354

do_test func-17.1 {
    proc testfunc1 args {error "Error %d with %s percents %p"}
    db function testfunc1 ::testfunc1
    catchsql {

SELECT testfunc1(1,2,3);
}
} {1 \{Error \%d with \%s percents \%p\}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
execsql {
    CREATE TABLE t5(x);
    INSERT INTO t5 VALUES(1);
    INSERT INTO t5 VALUES(-99);
    INSERT INTO t5 VALUES(10000);
    SELECT sum(x) FROM t5;
}
} {9902}
ifcapable floatingpoint {
do_test func-18.2 {
execsql {
    INSERT INTO t5 VALUES(0.0);
    SELECT sum(x) FROM t5;
}
} {9902.0}
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
execsql {
    DELETE FROM t5;
    SELECT sum(x), total(x) FROM t5;
}
} {{} 0.0}
do_test func-18.4 {
execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
}
} {{} 0.0}
do_test func-18.5 {
execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
}
} {{} 0.0}
do_test func-18.6 {
execsql {

INSERT INTO t5 VALUES(123);
SELECT sum(x), total(x) FROM t5
}
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful
# result.
#
# do_test func-18.10 {
execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)+1) from t6;
}
} 0
# do_test func-18.11 {
execsql {
    SELECT typeof(sum(x)) FROM t6
}
} integer
ifcapable floatingpoint {
# do_test func-18.12 {
  catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2.0+1) from t6;
  }
} {1 {integer overflow}}
# do_test func-18.13 {
execsql {
    SELECT total(x) - ((1<<62)*2.0+1) FROM t6
}
} 0.0
}
ifcapable !floatingpoint {
# do_test func-18.12 {
  catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2+1) from t6;
  }
} {1 {integer overflow}}
# do_test func-18.13 {
execsql {
    SELECT total(x) - ((1<<62)*2+1) FROM t6
}
} 0.0
}
if [[working_64bit_int]] { do_test func-18.14 {
  execsql {
    SELECT sum(-9223372036854775805);
  }
} -9223372036854775805
}
ifcapable compound&&subquery {
do_test func-18.15 {
catchsql {
  SELECT sum(x) FROM
    (SELECT 9223372036854775807 AS x UNION ALL
      SELECT 10 AS x);
}
} 1 {integer overflow} if [[working_64bit_int]] {
do_test func-18.16 {
catchsql {
  SELECT sum(x) FROM
    (SELECT 9223372036854775807 AS x UNION ALL
      SELECT -10 AS x);
}
} 0 9223372036854775797 do_test func-18.17 {
catchsql {
  SELECT sum(x) FROM
    (SELECT -9223372036854775807 AS x UNION ALL
      SELECT 10 AS x);
}
} 0 -9223372036854775797 do_test func-18.18 {
catchsql {
  SELECT sum(x) FROM
    (SELECT -9223372036854775807 AS x UNION ALL
      SELECT -10 AS x);
}
} 1 {integer overflow} do_test func-18.19 {
catchsql {
  SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
}
} 0 -1 do_test func-18.20 {
catchsql {
  SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
}
do_test func-18.21 {
catchsql {
    SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
}
}

do_test func-18.22 {
catchsql {
    SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
}
}

;# if capable compound&&subquery

# Integer overflow on abs()
#
if {[working_64bit_int]} {
do_test func-18.31 {
catchsql {
    SELECT abs(-9223372036854775807);
}
}
}
do_test func-18.32 {
catchsql {
    SELECT abs(-9223372036854775807-1);
}
}

# The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
execsql {
    SELECT match(a,b) FROM t1 WHERE 0;
}
}
do_test func-19.2 {
catchsql {
    SELECT 'abc' MATCH 'xyz';
}
}
do_test func-19.3 {
catchsql {
    SELECT 'abc' NOT MATCH 'xyz';
}
}
do_test func-19.4 {
catchsql {

SELECT match(1,2,3);
}
} {1 {wrong number of arguments to function match()}}

# Soundex tests.
#
if ![catch {db eval {SELECT soundex('hello')}}] {
set i 0
foreach {name sdx} {
  euler        E460
  EULER        E460
  Euler        E460
  ellery       E460
  gauss        G200
  ghosh        G200
  hilbert      H416
  Heilbronn    H416
  knuth        K530
  kant         K530
  Lloyd        L300
  LADD         L300
  Lukasiewicz  L222
  Lissajous    L222
  A            A000
  12345        ?000
} {
  incr i
  do_test func-20.$i {
    execsql {SELECT soundex($name)} $sdx
  }
}
}

# Tests of the REPLACE function.
#
do_test func-21.1 {
catchsql {
  SELECT replace(1,2);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
catchsql {
  SELECT replace(1,2,3,4);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
execsql {
  SELECT typeof(replace("This is the main test string", NULL, "ALT"));
}
do_test func-21.4 {
  execsql {
    SELECT typeof(replace(NULL, "main", "ALT"));
  }
}
do_test func-21.5 {
  execsql {
    SELECT typeof(replace("This is the main test string", "main", NULL));
  }
}
do_test func-21.6 {
  execsql {
    SELECT replace("This is the main test string", "main", "ALT");
  }
}
do_test func-21.7 {
  execsql {
    SELECT replace("This is the main test string", "main", "larger-main");
  }
}
do_test func-21.8 {
  execsql {
    SELECT replace("aaaaaaa", "a", "0123456789");
  }
}
ifcapable tclvar {
do_test func-21.9 {
  # Attempt to exploit a buffer-overflow that at one time existed
  # in the REPLACE function.
  set ::str \[string repeat A 29998\]CC\[string repeat A 35537\]
  set ::rep \[string repeat B 65536\]
  execsql {
    SELECT LENGTH(REPLACE($::str, 'C', $::rep));
  }
  }[expr 29998 + 2*65536 + 35537]
}
# Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
  catchsql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {
  catchsql {SELECT ltrim(1,2,3)}
} {1 {wrong number of arguments to function ltrim()}}
do_test func-22.3 {
catchsql {SELECT rtrim(1,2,3)}
} {1 {wrong number of arguments to function rtrim()}}
do_test func-22.4 {
exsql {SELECT trim(‘ hi ’);} }
} {hi}
do_test func-22.5 {
exsql {SELECT ltrim(‘ hi ’);} }
} {hi}
do_test func-22.6 {
exsql {SELECT rtrim(‘ hi ’);} }
} {hi}
do_test func-22.7 {
exsql {SELECT trim(‘ hi ’,’xyz’);} }
} {hi}
do_test func-22.8 {
exsql {SELECT ltrim(‘ hi ’,’xyz’);} }
} {hi}
do_test func-22.9 {
exsql {SELECT rtrim(‘ hi ’,’xyz’);} }
} {hi}
do_test func-22.10 {
exsql {SELECT trim(‘xyzzy hi zzzy’,’xyz’);} }
} {hi}
do_test func-22.11 {
exsql {SELECT ltrim(‘xyzzy hi zzzy’,’xyz’);} }
} {hi zzzy}
do_test func-22.12 {
exsql {SELECT rtrim(‘xyzzy hi zzzy’,’xyz’);} }
} {xyzzy hi }
do_test func-22.13 {
exsql {SELECT trim(‘ hi ’,'"');}
} {hi}
if {[db one {PRAGMA encoding}]="UTF-8"} {
do_test func-22.14 {
exsql {SELECT hex(trim(x’c280e1bfbff48fbf6869’’,x’6162e1bfbfc280’'))}
} {F48FBFBF6869}
do_test func-22.15 {
exsql {SELECT hex(trim(x’ceb1ceb2ceb3’’,x’ceb1’))}
} {CEB2CEB3}
} {null}
do_test func-22.21 {
  execsql {SELECT typeof(trim(NULL,'xyz'));} {null}
}
do_test func-22.22 {
  execsql {SELECT typeof(trim('hello',NULL));} {null}
}

# This is to test the deprecated sqlite3_aggregate_count() API.
#
ifcapable deprecated {
  do_test func-23.1 {
    sqlite3_create_aggregate db
    execsql {
      SELECT legacy_count() FROM t6;
    }
    } {3}
}

# The group_concat() function.
#
  do_test func-24.1 {
    execsql {
      SELECT group_concat(t1) FROM tbl1
    }
    } {this,program,is,free,software}
do_test func-24.2 {
    execsql {
      SELECT group_concat(t1,' ') FROM tbl1
    }
    } {{this program is free software}}
do_test func-24.3 {
    execsql {
      SELECT group_concat(t1,' '||rowid||' ') FROM tbl1
    }
    } {{this 2 program 3 is 4 free 5 software}}
do_test func-24.4 {
    execsql {
      SELECT group_concat(NULL,t1) FROM tbl1
    }
    } {{}}
do_test func-24.5 {
    execsql {
      SELECT group_concat(t1,NULL) FROM tbl1
    }
    } {thisprogramisfreesoftware}
do_test func-24.6 {
    execsql {
      SELECT 'BEGIN-'||group_concat(t1) FROM tbl1
    }
    } {null}

# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<${sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
    append midargs ,/$i/
    append midres /Si
    set result [md5 "this${midres}program${midres}is${midres}free${midres}software${midres}" ]
    set sql "SELECT md5sum(t1$midargs) FROM tbl1"
    do_test func-24.7.$i {
        db eval $::sql
    } $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
# do_test func-24.8 {
execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
} {.program,is,free,software}
do_test func-24.9 {
execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
} {,,,,software}
}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
# do_test func-24.10 {
execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
} {program,is,free,software}
do_test func-24.11 {
execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
} {.....software}
}
} {software}
do_test func-24.12 {
execsql {
SELECT group_concat(CASE t1 WHEN 'this' THEN ''
WHEN 'program' THEN null ELSE t1 END) FROM tbl1
}
} {,is,free,software}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}
# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
abuse_create_function db
} {}
# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
lappend a $i
}
db eval "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {{}}
do_test func-26.3 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678

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9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789

} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789

} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789

} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789

} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789

} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789

} {1 {wrong number of arguments to function coalesce()}}

] {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
catchsql {SELECT coalesce(1,2)}
} {0 1}

# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
db eval {
    CREATE TABLE t28(x, y DEFAULT(nosuchfunc()));
}
catchsql {
    INSERT INTO t28(x) VALUES(1);
}
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
db eval {
    CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
    INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
    INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
    INSERT INTO t29 VALUES(5, "hello", 7);
}
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x<5} {set x 1}
    set x
} {1}
do_test func-29.3 {
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(+) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permutation] != "mmap"} {
do_test func-29.4 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x>100} {set x many}
set x
} {many}
}
do_test func-29.5 {
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT sum(length(x)) FROM t29}
} {1000009}
do_test func-29.6 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x<5} {set x 1}
set x
} {1}
do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162
do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$\u00A2\u20AC}]
for {set i 1} {$i<0xd800} {incr i 13} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xfffd} {incr i 17} {
if {$i==0xfeff} continue
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commerical product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
    a       a
    aaron   aaron
    abaissiez abaissiez
    abandon abandon
    abandoned abandon
    abase   abas
    abash   abash
    abate   abat
    abated  abat
    abatement abat
    abatements abat
    abates  abat
    abbess  abbess
    abbey   abbei
    abbeys  abbei
    abominable abomin
    abbot   abbot
    abbots  abbot
    abbreviated abbrei
}
<table>
<thead>
<tr>
<th>abrogate</th>
<th>abrog</th>
</tr>
</thead>
<tbody>
<tr>
<td>abrook</td>
<td>abrook</td>
</tr>
<tr>
<td>abrupt</td>
<td>abrupt</td>
</tr>
<tr>
<td>abruption</td>
<td>abrupt</td>
</tr>
<tr>
<td>abruptly</td>
<td>abruptly</td>
</tr>
<tr>
<td>absence</td>
<td>absenc</td>
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<tr>
<td>absent</td>
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</tr>
<tr>
<td>absey</td>
<td>absei</td>
</tr>
<tr>
<td>absolute</td>
<td>absolut</td>
</tr>
<tr>
<td>absolutely</td>
<td>absolut</td>
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# Create a full-text index to use for testing the stemmer.

```sql
#
db close
sqlite3 db :memory:
db eval {
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}
```
foreach {pfrom pto} $porter_test_data {
    do_test fts1porter-$pfrom {
        execsql {
            DELETE FROM t1_term;
            DELETE FROM t1_content;
            INSERT INTO t1(word) VALUES($pfrom);
            SELECT term FROM t1_term;
        }
    } $pto
}

finish_test

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SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

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{string currentfile exch readstring pop}executeonly def

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/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** 
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt> ** <dd> ^(This option takes a single argument which is a pointer to an instance of the [sqlite3_mem_methods] structure. The argument specifies alternative low-level memory allocation routines to be used in place of the memory allocation routines built into SQLite.)^ ^SQLite makes its own private copy of the content of the [sqlite3_mem_methods] structure before the [sqlite3_config()] call returns.</dd> **

** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt> ** <dd> ^(This option takes a single argument which is a pointer to an instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods] structure is filled with the currently defined memory allocation routines.)^ This option can be used to overload the default memory allocation routines with a wrapper that simulates memory allocation failure or tracks memory usage, for example. </dd> **

** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt> ** <dd> ^This option takes single argument of type int, interpreted as a boolean, which enables or disables the collection of memory allocation statistics. ^When memory allocation statistics are disabled, the following SQLite interfaces become non-operational:

** <ul>
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status()]
** </ul>^
** ^Memory allocation statistics are enabled by default unless SQLite is compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default.
** </dd> **

** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt> ** <dd> ^This option specifies a static memory buffer that SQLite can use for scratch memory. There are three arguments: A pointer an 8-byte aligned memory buffer from which the scratch allocations will be drawn, the size of each scratch allocation (sz), and the maximum number of scratch allocations (N). The sz argument must be a multiple of 16.

** The first argument must be a pointer to an 8-byte aligned buffer of at least sz*N bytes of memory.
** ^SQLite will use no more than two scratch buffers per thread. So N should be set to twice the expected maximum number of threads.
** ^SQLite will never require a scratch buffer that is more than 6 times the database page size. ^If SQLite needs needs additional scratch memory beyond what is provided by this configuration option, then [sqlite3_malloc()] will be used to obtain the memory needed.</dd> **
** [SQLITE_CONFIG_PAGECACHE] <dt>SQLITE_CONFIG_PAGECACHE</dt>**

This option specifies a static memory buffer that SQLite can use for the database page cache with the default page cache implementation. This configuration should not be used if an application-define page cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option.

There are three arguments to this option: A pointer to 8-byte aligned memory, the size of each page buffer (sz), and the number of pages (N).

The sz argument should be the size of the largest database page (a power of two between 512 and 32768) plus a little extra for each page header. The page header size is 20 to 40 bytes depending on the host architecture. It is harmless, apart from the wasted memory, to make sz a little too large. The first argument should point to an allocation of at least sz*N bytes of memory.

SQLite will use the memory provided by the first argument to satisfy its memory needs for the first N pages that it adds to cache. If additional page cache memory is needed beyond what is provided by this option, then SQLite goes to [sqlite3_malloc()] for the additional storage space.

The pointer in the first argument must be aligned to an 8-byte boundary or subsequent behavior of SQLite will be undefined.

** [SQLITE_CONFIG_HEAP] <dt>SQLITE_CONFIG_HEAP</dt>**

This option specifies a static memory buffer that SQLite will use for all of its dynamic memory allocation needs beyond those provided for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].

There are three arguments: An 8-byte aligned pointer to the memory, the number of bytes in the memory buffer, and the minimum allocation size. If the first pointer (the memory pointer) is NULL, then SQLite reverts to using its default memory allocator (the system malloc() implementation), undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. If the memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory allocator is engaged to handle all of SQLite's memory allocation needs.

The first pointer (the memory pointer) must be aligned to an 8-byte boundary or subsequent behavior of SQLite will be undefined. The minimum allocation size is capped at 2**12. Reasonable values for the minimum allocation size are 2**5 through 2**8.

** [SQLITE_CONFIG_MUTEX] <dt>SQLITE_CONFIG_MUTEX</dt>**

This option takes a single argument which is a pointer to an instance of the [sqlite3_mutex_methods] structure. The argument specifies alternative low-level mutex routines to be used in place the mutex routines built into SQLite. SQLite makes a copy of the content of the [sqlite3_mutex_methods] structure before the call to [sqlite3_config()] returns. If SQLite is compiled with the [SQLITE_THREADSAFE] compile-time option then the entire mutexing subsystem is omitted from the build and hence calls to [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutuxing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(This option takes two arguments that determine the default
** memory allocation for the lookaside memory allocator on each
** [database connection]. The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(This option sets the
** <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** verb to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to
** an [sqlite3_pcache_methods2] object. This object specifies the interface
** to a custom page cache implementation.)^  ^SQLite makes a copy of the
** object and uses it for page cache memory allocations.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** [sqlite3_pcache_methods2] object. SQLite copies of the current
** page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** ^(The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
**[sqlite3_log()]** call and is intended to be a **result code** or an **extended result code**. ^The third parameter passed to the logger is log message after formatting via **sqlite3_snprintf()**.
**The SQLite logging interface is not reentrant; the logger function supplied by the application must not invoke any SQLite interface.**
**In a multi-threaded application, the application-defined logger function must be threadsafe. </dd>

** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI

** <dd> This option takes a single argument of type int. If non-zero, then ** URI handling is globally enabled. If the parameter is zero, then URI handling ** is globally disabled. If URI handling is globally enabled, all filenames ** passed to **sqlite3_open()**, **sqlite3_open_v2()**, **sqlite3_open16()** or ** specified as part of **ATTACH** commands are interpreted as URIs, regardless ** of whether or not the [SQLITE_OPEN_URI] flag is set when the database ** connection is opened. If it is globally disabled, filenames are ** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the ** database connection is opened. By default, URI handling is globally ** disabled. The default value may be changed by compiling with the ** [SQLITE_USE_URI] symbol defined.

** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN

** <dd> This option takes a single integer argument which is interpreted as ** a boolean in order to enable or disable the use of covering indices for ** full table scans in the query optimizer. The default setting is determined ** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on" ** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans ** is because some incorrectly coded legacy applications might malfunction ** malfunction when the optimization is enabled. Providing the ability to ** disable the optimization allows the older, buggy application code to work ** without change even with newer versions of SQLite.

** [[SQLITE_CONFIG_PCACHE]] and [[SQLITE_CONFIG_GETPCACHE]]

** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>

** [[SQLITE_CONFIG_SQLLOG]]

** <dt>SQLITE_CONFIG_SQLLOG

** <dd>This option is only available if sqlite is compiled with the ** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should ** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int). ** The second should be of type (void*). The callback is invoked by the library ** in three separate circumstances, identified by the value passed as the ** fourth parameter. If the fourth parameter is 0, then the database connection ** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the ** fourth parameter is 1, then the SQL statement that the third parameter ** points to has just been executed. Or, if the fourth parameter is 2, then ** the connection being passed as the second parameter is being closed. The ** third parameter is passed NULL in this case. An example of using this ** configuration option can be seen in the "test_sqllog.c" source file in ** the canonical SQLite source tree.</dd>

**

** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNlVkuI7/sqlite-src-3071700/src/sqlite.h.in
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# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts3ac-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,'traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

        The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

        ?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
        ?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
        ?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

        Please see example below:

        Parent's Settings:
        Minimum: 5000
        Increment: 1000

        Volume on Autohedge transactionVolume Hedged
        1   - 24990
        2500 - 54995000
        5500 - 64996000);
        INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com,
lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o’clock hour just let me know; I’ll
be more than willing to stay.');
Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

')

Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would
be to offer up the Falcon for their use; however, given the tight time frame
and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');

INSERT INTO email(from,[to],subject,body) VALUES('lachandra.fenceroy@enron.com',
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business
users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other
information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email(from,[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com',
'RE: worksheets', 'Fran,

If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well.
Thanks.
Dan
-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >>  << File: mccartyBonusCommercial_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com.', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.');

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.);

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim
Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "'chris.germany@enron.com'" <chris.germany@enron.com>
cc:
Subject: About St Pauls
Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.??

- About St Pauls.

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmcrcra@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', '-CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20, 2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20, 2000: E-GAS Request Reminder

As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o`rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.´);
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron

');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??

Susan Pereira);
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn"t know how deep to go with the desk. Do you think this works.');

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227


-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';

INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '---------------------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM ---------------------------

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!! --- New EAST books', 'This has to be done..................................

Thanks

---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books
We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal: East Northeast
Dick Jenkins: East Marketeast

WK

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com.', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm.,tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]

[IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here. SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA"s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that. I felt this was the type of info you were looking for. Thanks!

Ben');

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax: (415) 782-7854
"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM  To: ""smara@enron.com""><smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch';

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

-------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them
electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',
dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:

- Finalize market analysis to refine business case, specifically projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters of intent
- Review Enron asset base for potential reuse/ licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',
'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');

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----------Original Message----------

From: Punja, Karim
Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', ' 2001 Enron Law Conference

San Antonio, Texas  May 2-4, 2001  Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.
We will send you another e-mail to confirm when the Law Conference Website is operational.

Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:
EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey;

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com.', 'Postings', 'Please see the attached.

ds

');

INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com;

INSERT INTO email([from],[to],subject,body) VALUES('philip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.

PL);

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com','j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com','Price List week of Oct. 8-9, 2001','Thank you,
Karolyn Criado
3-9441

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.
Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

www.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqeste@aol.com', '', 'Jacques,
I sent you a fax of Kevin Kolb's comments on the release. The payoff on the note would be $36,248
($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', '

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
CC: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

'}); INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com', 'william.bradford@enron.com, debbie.brackett@enron.com,','Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');

INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???,

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

<< File: Netco Trader Matrix.xls >>

chris
x31666);

INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committee approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490);

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date:1/5/2001
Time:9:00 AM - 10:00 AM (Central Standard Time)

Chairperson:Outlook Migration Team
Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks !

Best regards

Diana Seifert
EOL PCG

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensesxms.enron.com/
U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt
### Load Schedule ###

$: Variance found in table tblLoads.

- Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
- TRANS_TYPE: FINAL
- LOAD_ID: PGE4
- MKT_TYPE: 2
- TRANS_DATE: 4/22/01
- SC_ID: EPMI

');

```sql
INSERT INTO email(from, to, subject, body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email(from, to, subject, body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');

INSERT INTO email(from, to, subject, body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');

COMMIT;
```
SELECT rowid FROM email WHERE email MATCH 'mark'
}
} {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {
execsql {
  SELECT rowid FROM email WHERE email MATCH 'susan'
}
} {24 40}
do_test fts3ac-1.4 {
execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark susan'
}
} {40}
do_test fts3ac-1.5 {
execsql {
  SELECT rowid FROM email WHERE email MATCH 'susan mark'
}
} {40}
do_test fts3ac-1.6 {
execsql {
  SELECT rowid FROM email WHERE email MATCH ""mark susan"
}
} {}
do_test fts3ac-1.7 {
execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark -susan'
}
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
execsql {
  SELECT rowid FROM email WHERE email MATCH '-mark susan'
}
} {24}
do_test fts3ac-1.9 {
execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
}
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
execsql {
  SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
}
do_test fts3ac-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
}

do_test fts3ac-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
}

do_test fts3ac-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
}

do_test fts3ac-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
}

do_test fts3ac-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
}

do_test fts3ac-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
  }
}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
}

do_test fts3ac-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
  }
}

# Snippet generator tests
#
do_test fts3ac-4.1 {
  execsql {
    SELECT snippet(email) FROM email
  }
}
WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts3ac-4.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
}
} {{<b>...</b>here <b>Christmas</b><b>...</b>}}
do_test fts3ac-4.3 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> asset base for <b>potential</b> <b>reuse</b>/ licensing Contract negotiations}<b>...</b>}}
do_test fts3ac-4.4 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing Contract negotiations }}
do_test fts3ac-4.5 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now }}
do_test fts3ac-4.6 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
}
} {{<b>...</b><b>chris</b>.germany@enron.com" <b>chris</b>...<b>bet this <b>is</b> next to<b>...</b>about going <b>here</b> Christmas eve <b>...</b>}}
do_test fts3ac-4.7 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
}
} {{Erin:
<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to the ISDA Master Agreement, together<b>...</b>}}
do_test fts3ac-4.8 {
exesql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
}
} { {pete.<b>davis</b>@enron.com<b>...</b>3;  No <b>ancillary</b> schedules awarded<b>...</b>detected in <b>Load</b> schedule.

LOG<b>...</b>}}

# Combinations of AND and OR operators:
#
do_test fts3ac-5.1 {
exesql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
}
} { {matt.smith@<b>enron</b>.<b>com</b><b>...</b>31 Keystone Receipts
15 <b>Questar</b>/<b>Pipeline</b>
40 Rockies<b>...</b>}}

do_test fts3ac-5.2 {
exesql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
}
} { {matt.smith@<b>enron</b>.<b>com</b><b>...</b>31 Keystone Receipts
15 <b>Questar</b>/<b>Pipeline</b>
40 Rockies<b>...</b>}}

#-------------------------------------------------------------------------
# Test a problem reported on the mailing list.
#
do_test fts3ac-6.1 {
exesql {
    CREATE VIRTUAL TABLE ft USING fts3(one, two);
    INSERT INTO ft VALUES('', 'foo');
    INSERT INTO ft VALUES('foo', 'foo');
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
exesql {
    DELETE FROM ft WHERE one = 'foo';
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
} {{1 0 0 3}}
finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

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<title>SQLite Copyright Release Template</title>
<body bgcolor="white">
<h1 align="center">
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Found in path(s):
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)print dup( )cvs print

Found in path(s):
* [cvx $error/errorname get(Error

1.2199 libcap 2.25
1.2199.1 Available under license:

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-------------------------------------------------------------------------
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Full text of gpl-2.0.txt:
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1.2207 wildfly-logging 11.1.1.Final

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1.2217 util-linux 2.32.1

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* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/schedulers/SchedulerRunnableIntrospection.java
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* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/annotations/package-info.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/subjects/package-info.java
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* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/disposables/package-info.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/plugins/package-info.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/internal/schedulers/TrampolineScheduler.java
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* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/internal/operators/observable/ObservableJoin.java
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* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/internal/operators/mixed/MaterializeSingleObserver.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/internal/operators/mixed/SingleFlatMapObservable.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/internal/operators/maybe/MaybeFilter.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/internal/operators/observable/ObservableWindow.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/internal/observers/QueueDrainObserver.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/subjects/SerializedSubject.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/internal/operators/observable/ObservableSampleTimed.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-jar/io/reactivex/internal/operators/maybe/MaybeDelayWithCompletable.java
jar/io/reactivex/internal/operators/observable/ObservableLastMaybe.java
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* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-
jar/io/reactivex/internal/schedulers/SchedulerWhen.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-
jar/io/reactivex/internal/schedulers/AbstractDirectTask.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-
jar/io/reactivex/internal/schedulers/ScheduledDirectPeriodicTask.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-
jar/io/reactivex/internal/schedulers/InstantPeriodicTask.java

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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/analysis/Subroutine.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/util/proxy/FactoryHelper.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/convert/Transformer.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/SyntheticAttribute.java
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  jar/javassist/tools/reflect/Reflection.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/expr/Instanceof.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/util/proxy/SecurityActions.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/ByteStream.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/compiler/SyntaxError.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/convert/TransformCall.java
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  jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/ClassFilePrinter.java
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  jar/javassist/ast/CtArray.java
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  jar/javassist/ast/CtPrimitiveType.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/compiler/ast/NewExpr.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/DeprecatedAttribute.java
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  jar/javassist/compiler/MemberResolver.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformWriteField.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Type.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Type.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/CompileError.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassMap.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/FloatMemberValue.java
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^L
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Version 3, 29 June 2007

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

--------------------------------------------------------------------------
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1.2229 log4j-slf4j-impl 2.11.1

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1.2232 wildfly-http-transaction-client

1.0.20.Final

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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This license, the Lesser General Public License, applies to some
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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.2239 newt 0.52.18 1ubuntu2

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with the library, after making changes to the library and recompiling
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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This is the Debian version of the newt library.
newt was written by Erik Troan <ewt@redhat.com>.

The original package was put together by Enrique Zanardi <ezanardi@debian.org>, from sources obtained from:
Recent upstream versions can be found at: http://fedora.redhat.com/

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newt is available under the terms of the GNU Library General Public License, version 2. On Debian GNU/Linux systems, the complete text of this license can be found in `/usr/share/common-licenses/LGPL-2'.
This context will create, initialize and run an \{@link WebServer\} by searching for a
single \{@link ServletWebServerFactory\} bean within the \{@link ApplicationContext\}
**Context** will create, initialize and run an \{@link WebServer\} by searching for a
single \{@link ServletWebServerFactory\} bean within the \{@link ApplicationContext\}
* itself. The \{@link ServletWebServerFactory\} is free to use standard Spring concepts
* (such as dependency injection, lifecycle callbacks and property placeholder variables).
* In addition, any \{@link Servlet\} or \{@link Filter\} beans defined in the context will be
automatically registered with the web server. In the case of a single Servlet bean, the
* '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean
name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will
always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').
* For more advanced configuration, the context can instead define beans that implement
the \{@link ServletContextInitializer\} interface (most often
* \{@link ServletRegistrationBean\}s and/or \{@link FilterRegistrationBean\}s). To prevent
double registration, the use of \{@link ServletContextInitializer\} beans will disable
automatic Servlet and Filter bean registration.
* Although this context can be used directly, most developers should consider using the
\{@link AnnotationConfigServletWebServerApplicationContext\} or
\{@link XmlServletWebServerApplicationContext\} variants.

* @author Phillip Webb
* @author Dave Syer
* @since 2.0.0
* @see AnnotationConfigServletWebServerApplicationContext
* @see XmlServletWebServerApplicationContext
* @see ServletWebServerFactory
* /*

Found in path(s):
*/opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/servlet/context/ServletWebServerApplicationContext.java
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* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/web/servlet/DynamicRegistrationBean.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/logging/logback/DefaultLogbackConfiguration.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/diagnostics/analyzer/NoUniqueBeanDefinitionFailureAnalyzer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/context/properties/bind/PlaceholdersResolver.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/context/properties/bind/IndexedElementsBinder.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/web/context/ServerPortInfoApplicationContextInitializer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/jta/bitronix/package-info.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/context/package-info.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/context/properties/bind/PlaceholdersResolver.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/context/properties/bind/IndexedElementsBinder.java
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  jar/org/springframework/boot/jta/bitronix/package-info.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/context/package-info.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/context/properties/ConfigurationPropertiesBindingPostProcessor.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/web/servlet/error/ErrorController.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/web/servlet/package-info.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/web/servlet/view/package-info.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/web/reactive/result/view/MustacheView.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
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* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/context/event/ApplicationFailedEvent.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/admin/SpringApplicationAdminMXBeanRegistrar.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/context/properties/bind/AggregateElementBinder.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/web/embedded/netty/NettyReactiveWebServerFactory.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/validation/MessageInterpolatorFactory.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/context/annotation/package-info.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
  jar/org/springframework/boot/web/reactive/server/package-info.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/env/RandomValuePropertySource.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/context/properties/bind/handler/IgnoreErrorsBindHandler.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/json/JacksonJsonParser.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/web/embedded/jetty/ForwardHeadersCustomizer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/web/reactive/error/ErrorWebExceptionHandler.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/web/embedded/jetty/ServletContextInitializerConfiguration.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/web/server/WebServerException.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/web/servlet/server/StaticResourceJars.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/context/logging/package-info.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/web/embedded/undertow/UndertowCompressionConfigurer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/ApplicationArguments.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/SpringApplicationBannerPrinter.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/context/properties/source/DefaultPropertyMapper.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/jdbc/package-info.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/web/embedded/tomcat/TomcatEmbeddedContext.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/web/reactive/error/NumberToDurationConverter.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/jackson/package-info.java
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* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-jar/org/springframework/boot/system/ApplicationHome.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-jar/org/springframework/boot/web/embedded/jetty/JettyWebServer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-jar/org/springframework/boot/web/embedded/tomcat/TomcatReactiveWebServerFactory.java
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* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-jar/org/springframework/boot/web/embedded/jetty/SslServerCustomizer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-jar/org/springframework/boot/web/embedded/undertow/UndertowServletCustomizer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-jar/org/springframework/boot/web/servlet/support/ErrorPageFilter.java

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* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-jar/META-INF/maven/org.springframework.boot/spring-boot/pom.xml

1.2241 commons-digester 1.8
1.2242 python-iniparse 0.4 9.el7

1.2242.1 Available under license:

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iniparse/compat.py and tests/test_compat.py contain code derived from
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

<table>
<thead>
<tr>
<th>Release</th>
<th>Derived from</th>
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<th>Owner</th>
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.2244 jsonpatch 1.13

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1.2245 neo4j-import-tool 4.1.7

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* /opt/ws_local/PERMITS_SQL/1094801607_1601321061.58/0/wildfly-http-client-common-1.0.20-final-sources-jar/schema/wildfly-http-client_1_0.xsd
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1.2251 wildfly-elytron-mechanism-http

1.11.4.Final

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1.2252 hibernate-validator 5.2.4.Final

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/**
* Retrieves constraint related meta data for the parameters of the given executable.
* *
* @param executable The executable of interest.
* *
* @return A list with parameter meta data for the given executable.
*/

Found in path(s):
* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2.jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2.jar/org/hibernate/validator/internal/xml/package.html
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* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2.jar/META-
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 */
/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 */

/*
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
 * ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
*/
* { @link javax.validation.ParameterNameProvider}. By default, { @code arg0}, { @code arg1} etc. will be used as parameter names.

* </p>
* </pre>
* The following listing shows an example using the JavaScript engine which comes with the JDK:

* </p>
* </pre>
* { @code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* </p>
* Can be specified on any method or constructor.

* </p>
* *
* @author Gunnar Morling
*/

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 */

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* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2-
jar/org/hibernate/validator/internal/util/TypeHelper.java

1.2253 opensaml-xmlsec-api 3.3.1
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schema.xsd
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Schema for XML Signatures
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/encryption/Generator.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/encryption/CipherReference.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/criterion/SignatureValidationConfigurationCriterion.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/signature/support/SignatureValidationParametersCriterion.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/DigestSHA1.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/SignatureRSASHA384.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/signature/PGPData.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/signature/X509IssuerName.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/SignatureECDSASHA224.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/signature/X509Data.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/signature/X509SerialNumber.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/SymmetricKeyWrapAlgorithm.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/signature/DSAKeyValue.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/signature/ECKeyValue.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/BlockEncryptionAlgorithm.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/encryption/support/DecryptionException.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/signature/X509IssuerName.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/signature/G.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/SignatureRSASHA384.java
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* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/KeyTransportRSAOAEPMGF1P.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/SignatureECDSASHA384.java

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1.2254 jbossws-cxf-jaspi 5.4.1.Final

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1.2256 ip-address 4.2.0

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* is no plans to change this as it will break existing requirements. Consider using
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*
* @author Glen Smith
* @author Rainer Pruy
*/

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package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method // to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}
// CreateResult is the response from a Create operation. Call its Extract method
to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    } err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project’s service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it’s time to write the actual code! We recommend reading over the [CONTRIBUTING](./github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](./github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.
Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as
implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:
### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be a lot of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
```

---

Open Source Used In SDWan 20.7.1 24415
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

---------------------

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.
### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------
If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It’s Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don’t take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/testhelper"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `
{
}
`

// GetResult provides a Get result.
const GetResult = `
{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `
{
}
`
// UpdateRequest provides the input to as Update request.
const UpdateRequest = `{ }
``

// UpdateResult provides an update result.
const UpdateResult = `{ }
``

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, ListResult)
})
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")

th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.WriteHeader(http.StatusOK)
})
}
w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, GetResult)
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "POST")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, CreateRequest)

w.WriteHeader(http.StatusCreated)
fmt.Fprintf(w, GetResult)
})
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "DELETE")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, UpdateRequest)

w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})
}

package RESOURCE

import (  
  "github.com/gophercloud/gophercloud"  
  "github.com/gophercloud/gophercloud/pagination"
)
// ListOptsBuilder allows extensions to add additional parameters to
// the List request.
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        } else {
            url += query
        }
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}
// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}
package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })

    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
defer th.TeardownHTTP()
HandleGetResourceSuccessfully(t)

actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
th.SetupHTTP()
def err th.TeardownHTTP()
HandleCreateResourceSuccessfully(t)

createOpts := resources.CreateOpts{
Name: "resource two",
}

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
th.SetupHTTP()
def th.TeardownHTTP()
HandleDeleteResourceSuccessfully(t)

res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
def th.TeardownHTTP()
HandleUpdateResourceSuccessfully(t)

updateOpts := resources.UpdateOpts{
Description: "Staging Resource",
}

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import "github.com/gophercloud/gophercloud"
func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 4: Acceptance Testing

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

/*

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.
Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE

Step 7: Congratulations!
=================================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 2: Create an Issue
=================================

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

---------------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't
want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call
If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.
Step 3: Code Hunting

====================

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
    ID           string   `json:"id"`
    Name         string   `json:"name"`
    AdminStateUp bool     `json:"admin_state_up"`
    Status       string   `json:"status"`
    Subnets      []string `json:"subnets"`
    TenantID     string   `json:"tenant_id"`
    Shared       bool     `json:"shared"`
}
```

to look like

```go
type Network struct {
    ID                    string   `json:"id"`
    Name                  string   `json:"name"`
    AdminStateUp          bool     `json:"admin_state_up"`
    Status                string   `json:"status"`
    Subnets               []string `json:"subnets"`
    TenantID              string   `json:"tenant_id"`
    Shared                bool     `json:"shared"`
    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.
One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on.
Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

**Step 1: Read Our Guides**

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

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When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

---

**1.2265 neo4j-values 4.1.7**

**1.2265.1 Available under license:**

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data
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Written by: Philip Hazel
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2017_09.0.0/operations/_default_security_rules_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2020_05.0.0/operations/_express_route_links_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2017_10.0.0/models/_models.py3.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_06.0.0/operations/_public_ip_prefixes_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_09.0.0/operations/_available_resource_group_delegations_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2020_03.0.0/operations/_load_balancer_probes_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2020_04.0.0/operations/_load_balancer_probes_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_07.0.0/operations/_virtual_router_peerings_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_07.0.0/operations/_private_endpoints_operations.py
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2020_05.0.0/operations/_available_delegations_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2020_04.0.0/operations/_ddos_protection_plans_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_06.0.0/operations/_bgp_service_communities_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_12.0.0/operations/_available_service_aliases_operations.py
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_07_01/operations/_available_endpoint_services_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_11_01/operations/_remote_application_gateway_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2020_04_01/operations/_load_balancer_frontend_ip_configurations_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_12_01/operations/_p2s_vpn_gateways_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_08_01/operations/_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_12_01/operations/_default_security_rules_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2017_08_01/operations/_virtual_networks_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2017_11_01/operations/_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_06_01/operations/_load_balancer_probes_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_08_01/operations/_load_balancers_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_07_01/operations/_available_endpoint_services_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_11_01/operations/_remote_application_gateway_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_12_01/operations/_p2s_vpn_gateways_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_08_01/operations/_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_12_01/operations/_default_security_rules_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2017_08_01/operations/_virtual_networks_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2017_11_01/operations/_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_06_01/operations/_load_balancer_probes_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_08_01/operations/_load_balancers_operations.py
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2017_10_01/operations/_network_management_client_operations.py
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_11_01/operations/_inbound_nat_rules_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_10_01/operations/_express_route_ports_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_12_01/operations/_network_interfaces_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_04_01/operations/_local_network_gateways_operations.py

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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_12_01/operations/_firewall_policies_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_08_01/models/__init__.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_09_01/operations/_route_filter_rules_operations.py
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2020_05_01/operations/_ip_groups_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2020_05_01/operations/_load_balancer_network_interfaces_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_07_01/operations/_network_profiles_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_11_01/operations/_route_filter_rules_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2020_03_01/operations/_virtual_hub_route_table_v2s_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_04_01/operations/_private_link_services_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_12_01/operations/_vpn_sites_configuration_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_04_01/operations/_express_route_cross_connection_peerings_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_02_01/operations/_available_resource_group_delegations_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2020_03_01/operations/_security_partner_providers_operations.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: azure-mgmt-network
Version: 11.0.0
Summary: Microsoft Azure Network Management Client Library for Python
Home-page: https://github.com/Azure/azure-sdk-for-python
Author: Microsoft Corporation
Author-email: azpsdkhelp@microsoft.com
License: MIT License
Description: # Microsoft Azure SDK for Python

This is the Microsoft Azure Network Management Client Library.
This package has been tested with Python 2.7, 3.5, 3.6, 3.7 and 3.8.
For a more complete view of Azure libraries, see the [Github repo](https://github.com/Azure/azure-sdk-for-python/)

# Usage

For code examples, see [Network Management](https://docs.microsoft.com/python/api/overview/azure/network) on docs.microsoft.com.

# Provide Feedback

If you encounter any bugs or have suggestions, please file an issue in the [Issues](https://github.com/Azure/azure-sdk-for-python/issues) section of the project.

![Impressions](https://azure-sdk-impressions.azurewebsites.net/api/impressions/azure-sdk-for-python%2Fazure-mgmt-network%2FREADME.png)
# Release History

## 11.0.0 (2020-06-19)

**Features**

- Model ConnectivityHop has a new parameter previous_hop_ids
- Model ConnectivityHop has a new parameter previous_links
- Model ConnectivityHop has a new parameter links
- Model HubIPAddresses has a new parameter public_ips
- Model FirewallPolicy has a new parameter rule_collection_groups
- Model FirewallPolicy has a new parameter dns_settings
- Model VirtualHub has a new parameter routing_state
- Model VirtualHub has a new parameter ip_configurations
- Model VirtualHub has a new parameter bgp_connections
- Model VirtualHub has a new parameter virtual_router_ips
- Model VirtualHub has a new parameter virtual_router_asn
- Model ApplicationGatewayFrontendIPConfiguration has a new parameter private_link_configuration
- Model ApplicationGateway has a new parameter private_endpoint_connections
- Model ApplicationGateway has a new parameter private_link_configurations
- Model P2SVpnGateway has a new parameter custom_dns_servers
- Model FirewallPolicyRule has a new parameter description
- Model NetworkVirtualAppliance has a new parameter virtual_appliance_sites
- Model NetworkVirtualAppliance has a new parameter bootstrap_configuration_blobs
- Model NetworkVirtualAppliance has a new parameter cloud_init_configuration
- Model NetworkVirtualAppliance has a new parameter cloud_init_configuration_blobs
- Model NetworkVirtualAppliance has a new parameter nva_sku
- Added operation VirtualHubsOperations.get_effective_virtual_hub_routes
- Added operation HubVirtualNetworkConnectionsOperations.delete
- Added operation HubVirtualNetworkConnectionsOperations.create_or_update
- Added operation group VirtualHubBgpConnectionsOperations
- Added operation group VirtualApplianceSkusOperations
- Added operation group VirtualHubIpConfigurationOperations
- Added operation group ApplicationGatewayPrivateLinkResourcesOperations
- Added operation group VirtualApplianceSitesOperations
- Added operation group ApplicationGatewayPrivateEndpointConnectionsOperations
- Added operation group FirewallPolicyRuleCollectionGroupsOperations
- Added operation group VirtualHubBgpConnectionOperations

**Breaking changes**

- Model HubIPAddresses no longer has parameter public_ip_addresses
- Model FirewallPolicy no longer has parameter rule_groups
- Model VirtualHub no longer has parameter virtual_network_connections
- Model FirewallPolicyRule no longer has parameter priority
- Model NetworkVirtualAppliance no longer has parameter cloud_init_configurations_blob
- Model NetworkVirtualAppliance no longer has parameter boot_strap_configuration_blob
- Model NetworkVirtualAppliance no longer has parameter sku

## 10.2.0 (2020-04-10)

**Features**

- Model VpnConnection has a new parameter routing_configuration
- Model NatRuleCondition has a new parameter terminate_tls
- Model HubVirtualNetworkConnection has a new parameter routing_configuration
- Model ExpressRouteConnection has a new parameter routing_configuration
- Model FirewallPolicy has a new parameter transport_security
- Model FirewallPolicy has a new parameter identity
- Model FirewallPolicy has a new parameter threat_intel_whitelist
- Model ApplicationRuleCondition has a new parameter target_urls
- Model P2SConnectionConfiguration has a new parameter routing_configuration
- Model BackendAddressPool has a new parameter load_balancer_backend_addresses
- Added operation LoadBalancerBackendAddressPoolsOperations.create_or_update
- Added operation LoadBalancerBackendAddressPoolsOperations.delete
- Added operation group HubRouteTablesOperations

## 10.1.0 (2020-04-10)

**Features**

- Model VpnConnection has a new parameter dpd_timeout_seconds
- Model FirewallPolicy has a new parameter intrusion_system_mode
- Model Subnet has a new parameter ip_allocations
- Model ApplicationGateway has a new parameter force_firewall_policy_association
- Model PrivateEndpoint has a new parameter custom_dns_configs
- Model VirtualNetworkGatewayConnection has a new parameter dpd_timeout_seconds
- Model VpnClientConfiguration has a new parameter radius_servers
- Model VirtualNetwork has a new parameter ip_allocations
- Model VirtualHub has a new parameter security_partner_provider
- Model VpnServerConfiguration has a new parameter radius_servers
- Added operation group PrivateDnsZoneGroupsOperations
- Added operation group SecurityPartnerProvidersOperations
- Added operation group IpAllocationsOperations

## 10.0.0 (2020-03-31)

**Features**

- Model VirtualNetworkGatewayConnection has a new parameter use_local_azure_ip_address
- Model NetworkRuleCondition has a new parameter source_ip_groups
- Model NetworkRuleCondition has a new parameter destination_ip_groups
- Model VirtualNetworkGatewayIPConfiguration has a new parameter private_ip_address
- Model BgpSettings has a new parameter bgp_peering_addresses
- Model ExpressRouteCircuitConnection has a new parameter ipv6_circuit_connection_config
- Model ApplicationGatewayHttpListener has a new parameter host_names
- Model ApplicationRuleCondition has a new parameter source_ip_groups
- Model VirtualNetworkGateway has a new parameter enable_private_ip_address
- Model LocalNetworkGateway has a new parameter fqdn
- Model VpnSiteLink has a new parameter fqdn
- Model NetworkSecurityGroup has a new parameter flow_logs
- Added operation NetworkManagementClientOperationsMixin.put_bastion_shareable_link
- Added operation NetworkManagementClientOperationsMixin.get_bastion_shareable_link
- Added operation NetworkManagementClientOperationsMixin.delete_bastion_shareable_link
- Added operation NetworkManagementClientOperationsMixin.disconnect_active_sessions
- Added operation NetworkManagementClientOperationsMixin.get_active_sessions
- Added operation group NetworkVirtualAppliancesOperations

**Breaking changes**

- Model ApplicationGatewayHttpListener no longer has parameter hostnames

## 9.0.0 (2020-01-17)

**Features**

- Model AzureFirewall has a new parameter ip_groups
- Model AzureFirewall has a new parameter management_ip_configuration
- Model ConnectionMonitorResult has a new parameter endpoints
- Model ConnectionMonitorResult has a new parameter connection_monitor_type
- Model ConnectionMonitorResult has a new parameter test_configurations
- Model ConnectionMonitorResult has a new parameter test_groups
- Model ConnectionMonitorResult has a new parameter outputs
- Model ConnectionMonitorResult has a new parameter notes
- Model AzureFirewallIPConfiguration has a new parameter type
- Model ConnectionMonitor has a new parameter endpoints
- Model ConnectionMonitor has a new parameter test_configurations
- Model ConnectionMonitor has a new parameter test_groups
- Model ConnectionMonitor has a new parameter outputs
- Model ConnectionMonitor has a new parameter notes
- Model DdosSettings has a new parameter protected_ip
- Model ApplicationGatewayRewriteRuleActionSet has a new parameter url_configuration
- Added operation P2sVpnGatewaysOperations.disconnect_p2s_vpn_connections
- Added operation VirtualNetworkGatewaysOperations.disconnect_virtual_network_gateway_vpn_connections
- Added operation group FlowLogsOperations
**Breaking changes**

- Operation
  ExpressRouteCircuitAuthorizationsOperations.create_or_update has a new signature
- Model ConnectionMonitorParameters has a new signature

## 8.0.0 (2019-11-12)

**Features**

- Model PrivateLinkServiceConnectionState has a new parameter
  actions_required
- Model ConnectivityParameters has a new parameter
  preferred_ip_version

**Breaking changes**

- Model PrivateLinkServiceConnectionState no longer has parameter
  action_required

## 7.0.0 (2019-10-22)

**Features**

- Model ApplicationGatewayHttpListener has a new parameter
  hostnames
- Model ApplicationGatewayHttpListener has a new parameter
  firewall_policy
- Model ApplicationGatewayPathRule has a new parameter
  firewall_policy
- Model P2SVpnGateway has a new parameter
  p2_sconnection_configurations
- Model VpnServerConfiguration has a new parameter
  vpn_client_root_certificates
- Model VpnServerConfiguration has a new parameter
  radius_server_root_certificates
- Model VpnServerConfiguration has a new parameter
  radius_client_root_certificates
- Model VpnServerConfiguration has a new parameter
  vpn_client_revoked_certificates
- Model ExpressRouteConnection has a new parameter
  enable_internet_security
- Model AzureFirewallApplicationRule has a new parameter
  source_ip_groups
- Model WebApplicationFirewallPolicy has a new parameter
  path_based_rules
- Model WebApplicationFirewallPolicy has a new parameter
  http_listeners
- Model PrivateLinkService has a new parameter enable_proxy_protocol
- Model AzureFirewallNetworkRule has a new parameter destination_ip_groups
- Model AzureFirewallNetworkRule has a new parameter source_ip_groups
- Model AzureFirewallNetworkRule has a new parameter destination_fqdns
- Model VirtualWAN has a new parameter virtual_wan_type
- Model VirtualHub has a new parameter sku
- Model VirtualHub has a new parameter virtual_hub_route_table_v2s
- Model AzureFirewallNatRule has a new parameter translated_fqdn
- Model AzureFirewallNatRule has a new parameter source_ip_groups
- Model PrivateEndpointConnection has a new parameter link_identifier
- Model AzureFirewall has a new parameter additional_properties
- Added operation RouteFiltersOperations.update_tags
- Added operation ServiceEndpointPoliciesOperations.update_tags
- Added operation
  PrivateLinkServicesOperations.get_private_endpoint_connection
- Added operation
  PrivateLinkServicesOperations.list_private_endpoint_connections
- Added operation group VirtualHubRouteTableV2sOperations
- Added operation group IpGroupsOperations

**Breaking changes**

- Operation AzureFirewallsOperations.update_tags has a new signature
- Operation
  ExpressRouteCircuitAuthorizationsOperations.create_or_update has a new signature
- Model P2SVpnGateway no longer has parameter p2s_connection_configurations
- Model VpnServerConfiguration no longer has parameter
  vpn_server_config_vpn_client_root_certificates
- Model VpnServerConfiguration no longer has parameter
  vpn_server_config_radius_client_root_certificates
- Model VpnServerConfiguration no longer has parameter
  vpn_server_config_vpn_client_revoked_certificates
- Model VpnServerConfiguration no longer has parameter
  vpn_server_config_radius_server_root_certificates
- Removed operation RouteFiltersOperations.update
- Removed operation VirtualRoutersOperations.update
- Removed operation RouteFilterRulesOperations.update
- Removed operation VirtualRouterPeeringsOperations.update
- Removed operation FirewallPoliciesOperations.update_tags
- Removed operation ServiceEndpointPoliciesOperations.update_tags

## 6.0.0 (2019-10-09)
**Features**

- Model VirtualNetwork has a new parameter bgp_communities
- Model VirtualHub has a new parameter azure_firewall
- Model VirtualHub has a new parameter security_provider_name
- Model P2SVpnGateway has a new parameter p2s_connection_configurations
- Model P2SVpnGateway has a new parameter vpn_server_configuration
- Model AzureFirewall has a new parameter sku
- Model VirtualNetworkGateway has a new parameter inbound_dns_forwarding_endpoint
- Model VirtualNetworkGateway has a new parameter enable_dns_forwarding
- Added operation P2sVpnGatewaysOperations.get_p2s_vpn_connection_health_detailed
- Added operation NetworkManagementClientOperationsMixin.generatevirtualwanvpnserverconfigurationvpnprofile
- Added operation group VpnServerConfigurationsOperations
- Added operation group VpnServerConfigurationsAssociatedWithVirtualWanOperations
- Added operation group AvailableServiceAliasesOperations

**Breaking changes**

- Model WebApplicationFirewallPolicy has a new required parameter managed_rules
- Model P2SVpnGateway no longer has parameter vpn_client_address_pool
- Model P2SVpnGateway no longer has parameter custom_routes
- Model P2SVpnGateway no longer has parameter p2_svpn_server_configuration
- Model VirtualWAN no longer has parameter security_provider_name
- Model VirtualWAN no longer has parameter p2_svpn_server_configurations
- Model PolicySettings has a new signature

## 5.1.0 (2019-10-03)

**Features**

- Model VirtualNetworkGateway has a new parameter vpn_gateway_generation
- Model ExpressRoutePort has a new parameter identity
- Model VirtualNetworkGatewayConnection has a new parameter traffic_selector_policies
- Model ExpressRouteLink has a new parameter mac_sec_config
- Model VirtualNetworkGatewayConnectionListEntity has a new parameter traffic_selector_policies
- Model NetworkInterfaceIPConfiguration has a new parameter private_link_connection_properties
- Model ApplicationGatewayRequestRoutingRule has a new parameter priority
- Added operation VirtualNetworkGatewayConnectionsOperations.stop_packet_capture
- Added operation VirtualNetworkGatewayConnectionsOperations.start_packet_capture
- Added operation ConnectionMonitorsOperations.update_tags
- Added operation VirtualNetworkGatewaysOperations.stop_packet_capture
- Added operation VirtualNetworkGatewaysOperations.start_packet_capture
- Added operation group VirtualRoutersOperations
- Added operation group VirtualRouterPeeringsOperations

## 5.0.0 (2019-08-27)

**Features**

- Model PrivateLinkServiceIpConfiguration has a new parameter primary
- Model PrivateLinkServiceIpConfiguration has a new parameter etag
- Model PrivateLinkServiceIpConfiguration has a new parameter type
- Model PrivateLinkServiceIpConfiguration has a new parameter id
- Model AzureFirewall has a new parameter virtual_hub
- Model AzureFirewall has a new parameter hub_ip_addresses
- Model AzureFirewall has a new parameter firewall_policy
- Model PrivateLinkServiceConnection has a new parameter provisioning_state
- Model PrivateLinkServiceConnection has a new parameter etag
- Model PrivateLinkServiceConnection has a new parameter type
- Model PublicIPPrefix has a new parameter load_balancer_frontend_ip_configuration
- Model ApplicationGatewayOnDemandProbe has a new parameter backend_address_pool
- Model ApplicationGatewayOnDemandProbe has a new parameter backend_http_settings
- Model PrivateEndpointConnection has a new parameter provisioning_state
- Model PrivateEndpointConnection has a new parameter etag
- Model PrivateEndpointConnection has a new parameter type
- Added operation SubnetsOperations.unprepare_network_policies
- Added operation group FirewallPolicyRuleGroupsOperations
- Added operation group FirewallPoliciesOperations

**Breaking changes**

- Model PrivateLinkServiceIpConfiguration no longer has parameter
public_ip_address
- Model ApplicationGatewayOnDemandProbe no longer has parameter backend_pool_name
- Model ApplicationGatewayOnDemandProbe no longer has parameter backend_http_setting_name

## 4.0.0 (2019-07-19)

**Features**

- Model Subnet has a new parameter private_link_service_network_policies
- Model Subnet has a new parameter private_endpoint_network_policies
- Model VpnSite has a new parameter vpn_site_links
- Model LoadBalancingRule has a new parameter type
- Model BackendAddressPool has a new parameter outbound_rules
- Model BackendAddressPool has a new parameter type
- Model InboundNatPool has a new parameter type
- Model OutboundRule has a new parameter type
- Model InboundNatRule has a new parameter type
- Model Probe has a new parameter type
- Model FrontendIPConfiguration has a new parameter private_ip_address_version
- Model FrontendIPConfiguration has a new parameter type
- Model AvailablePrivateEndpointType has a new parameter name
- Model AvailablePrivateEndpointType has a new parameter resource_name
- Model VpnConnection has a new parameter vpn_link_connections
- Added operation AvailablePrivateEndpointTypesOperations.list_by_resource_group
- Added operation AzureFirewallsOperations.update_tags
- Added operation PrivateLinkServicesOperations.check_private_link_service_visibility_by_resource_group
- Added operation PrivateLinkServicesOperations.list_auto_approved_private_link_services
- Added operation PrivateLinkServicesOperations.check_private_link_serviceVisibility
- Added operation PrivateLinkServicesOperations.list_auto_approved_private_link_services_by_resource_group
- Added operation group VpnLinkConnectionsOperations
- Added operation group VpnSiteLinkConnectionsOperations
- Added operation group VpnSiteLinksOperations

**Breaking changes**

- Operation SubnetsOperations.prepare_network_policies has a new signature
- Model PrepareNetworkPoliciesRequest no longer has parameter resource_group_name
- Model AvailablePrivateEndpointType no longer has parameter service_name
- Removed operation group AvailableResourceGroupPrivateEndpointTypesOperations

## 3.0.0 (2019-05-24)

**Features**

- Model NetworkInterface has a new parameter private_endpoint
- Model ServiceAssociationLink has a new parameter type
- Model ServiceAssociationLink has a new parameter allow_delete
- Model ServiceAssociationLink has a new parameter locations
- Model Subnet has a new parameter private_endpoints
- Model PatchRouteFilter has a new parameter ipv6_peerings
- Model ExpressRouteCircuitPeering has a new parameter type
- Model ApplicationGatewayProbe has a new parameter port
- Model RouteFilter has a new parameter ipv6_peerings
- Model ExpressRouteCircuitAuthorization has a new parameter type
- Model PeerExpressRouteCircuitConnection has a new parameter type
- Model AzureFirewall has a new parameter zones
- Model ResourceNavigationLink has a new parameter type
- Model ExpressRouteCircuitConnection has a new parameter type
- Model VpnConnection has a new parameter
  use_policy_based_traffic_selectors
- Model NatGateway has a new parameter zones
- Model VpnClientConfiguration has a new parameter aad_audience
- Model VpnClientConfiguration has a new parameter aad_issuer
- Model VpnClientConfiguration has a new parameter aad_tenant
- Added operation
  VirtualNetworkGatewaysOperations.get_vpnclient_connection_health
- Added operation
  P2sVpnGatewaysOperations.get_p2s_vpn_connection_health
- Added operation VpnGatewaysOperations.reset
- Added operation group BastionHostsOperations
- Added operation group NetworkManagementClientOperationsMixin
- Added operation group PrivateLinkServicesOperations
- Added operation group
  AvailableResourceGroupPrivateEndpointTypesOperations
- Added operation group ServiceAssociationLinksOperations
- Added operation group ResourceNavigationLinksOperations
- Added operation group ServiceTagsOperations
- Added operation group PrivateEndpointsOperations
- Added operation group AvailablePrivateEndpointTypesOperations

**Breaking changes**
- Model NetworkInterface no longer has parameter interface_endpoint
- Model Subnet no longer has parameter interface_endpoints
- Removed operation group InterfaceEndpointsOperations

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes if you were importing from the v20xx_yy_zz API folders. In summary, some modules were incorrectly visible/importable and have been renamed. This fixed several issues caused by usage of classes that were not supposed to be used in the first place.

- NetworkManagementClient cannot be imported from
  `azure.mgmt.network.v20xx_yy_zz.network_management_client`
  anymore (import from `azure.mgmt.network.v20xx_yy_zz` works like before)
- NetworkManagementClientConfiguration import has been moved from
  `azure.mgmt.network.v20xx_yy_zz.network_management_client` to
  `azure.mgmt.network.v20xx_yy_zz`
- A model `MyClass` from a "models" sub-module cannot be imported
  anymore using `azure.mgmt.network.v20xx_yy_zz.models.my_class`
  (import from `azure.mgmt.network.v20xx_yy_zz.models` works like before)
- An operation class `MyClassOperations` from an `operations`
  sub-module cannot be imported anymore using
  `azure.mgmt.network.v20xx_yy_zz.operations.my_class_operations`
  (import from `azure.mgmt.network.v20xx_yy_zz.operations` works like before)

Last but not least, HTTP connection pooling is now enabled by default.
You should always use a client as a context manager, or call close(), or use no more than one client per process.

## 2.7.0 (2019-04-25)

**Features**

- Model P2SVpnGateway has a new parameter custom_routes
- Model Subnet has a new parameter nat_gateway
- Model VpnConnection has a new parameter
  use_local_azure_ip_address
- Model EffectiveRoute has a new parameter
  disable_bgp_route_propagation
- Model VirtualNetworkGateway has a new parameter custom_routes
- Added operation
  ApplicationGatewaysOperations.backend_health_on_demand
- Added operation DdosProtectionPlansOperations.update_tags
- Added operation group NatGatewaysOperations

**Bug fixes and preview API updates**

- Parameter output_blob_sas_url of model GetVpnSitesConfigurationRequest is now required
- Operation VpnSitesConfigurationOperations.download has a new signature
- Model ExpressRouteCircuit no longer has parameter allow_global_reach

## 2.6.0 (2019-03-21)

**Features**

- Model ApplicationGateway has a new parameter firewall_policy
- Model ApplicationGatewayBackendHealthServer has a new parameter health_probe_log
- Model ExpressRouteCircuitPeering has a new parameter peered_connections
- Model ExpressRouteCircuit has a new parameter global_reach_enabled
- Added operation group PeerExpressRouteCircuitConnectionsOperations
- Added operation group WebApplicationFirewallPoliciesOperations

**Bugfixes**

- Fix incorrect operation ApplicationGatewaysOperations.list_available_request_headers
- Fix incorrect operation ApplicationGatewaysOperations.list_available_server_variables
- Fix incorrect operation ApplicationGatewaysOperations.list_available_response_headers

## 2.6.0rc1 (2019-02-15)

**Features**

- Model AzureFirewall has a new parameter threat_intel_mode
- Model ApplicationGatewayRewriteRule has a new parameter conditions
- Model ApplicationGatewayRewriteRule has a new parameter rule_sequence
- Model ApplicationGatewayAutoscaleConfiguration has a new parameter max_capacity
- Added operation SubnetsOperations.prepare_network_policies

## 2.5.1 (2019-01-15)
**Features**

- Add missing ddos_custom_policies operations

## 2.5.0 (2019-01-04)

**Features**

- Model PublicIPAddress has a new parameter ddos_settings
- Added operation ApplicationGatewaysOperations.list_available_request_headers
- Added operation ApplicationGatewaysOperations.list_available_server_variables
- Added operation ApplicationGatewaysOperations.list_available_response_headers
- Added operation ApplicationSecurityGroupsOperations.update_tags

## 2.4.0 (2018-11-27)

**Features**

- Model ApplicationGatewaySslCertificate has a new parameter key_vault_secret_id
- Model ApplicationGatewayRequestRoutingRule has a new parameter rewrite_rule_set
- Model FlowLogInformation has a new parameter format
- Model ApplicationGateway has a new parameter identity
- Model ApplicationGateway has a new parameter rewrite_rule_sets
- Model TrafficAnalyticsConfigurationProperties has a new parameter traffic_analytics_interval
- Model ApplicationGatewayPathRule has a new parameter rewrite_rule_set
- Model ApplicationGatewayUrlPathMap has a new parameter default_rewrite_rule_set

**Breaking changes**

- Model ApplicationGatewayTrustedRootCertificate no longer has parameter keyvault_secret_id (replaced by key_vault_secret_id)

## 2.3.0 (2018-11-07)

**Features**

- Model ApplicationGatewayWebApplicationFirewallConfiguration has a new parameter exclusions
- Model ApplicationGatewayWebApplicationFirewallConfiguration has a new parameter file_upload_limit_in_mb
- Model ApplicationGatewayWebApplicationFirewallConfiguration has a new parameter max_request_body_size_in_kb
- Model ApplicationGatewayHttpListener has a new parameter custom_error_configurations
- Model ExpressRouteCircuit has a new parameter bandwidth_in_gbps
- Model ExpressRouteCircuit has a new parameter stag
- Model ExpressRouteCircuit has a new parameter express_route_port
- Model EvaluatedNetworkSecurityGroup has a new parameter applied_to
- Model NetworkConfigurationDiagnosticResult has a new parameter profile
- Model ApplicationGateway has a new parameter custom_error_configurations
- Added operation group LoadBalancerOutboundRulesOperations
- Added operation group ExpressRouteLinksOperations
- Added operation group ExpressRoutePortsOperations
- Added operation group ExpressRoutePortsLocationsOperations

**Breaking changes**

- Model NetworkConfigurationDiagnosticResult no longer has parameter traffic_query
- Operation NetworkWatchersOperations.get_network_configuration_diagnostic has a new signature (no longer takes target_resource_id, queries, but a NetworkConfigurationDiagnosticParameters instance)

### 2.2.1 (2018-09-14)

**Bugfixes**

- Fix unexpected exception with network_profiles.delete

### 2.2.0 (2018-09-11)

Default API version is now 2018-08-01

**Features**

- Model AzureFirewall has a new parameter nat_rule_collections
- Model VirtualHub has a new parameter route_table
- Model VirtualHub has a new parameter virtual_network_connections
- Model VirtualHub has a new parameter p2_svpn_gateway
- Model VirtualHub has a new parameter express_route_gateway
- Model VirtualHub has a new parameter vpn_gateway
- Model VirtualWAN has a new parameter allow_vnet_to_vnet_traffic
- Model VirtualWAN has a new parameter p2_svpn_server_configurations
- Model VirtualWAN has a new parameter
Model VirtualWAN has a new parameter allow_branch_to_branch_traffic
Model VirtualWAN has a new parameter security_provider_name
Model VpnSite has a new parameter is_security_site
Model VpnConnection has a new parameter connection_bandwidth
Model VpnConnection has a new parameter enable_internet_security
Model VpnConnection has a new parameter vpn_connection_protocol_type
Model VpnConnection has a new parameter enable_rate_limiting
Model ServiceEndpointPolicy has a new parameter subnets
Model AzureFirewallApplicationRule has a new parameter fqdn_tags
Model AzureFirewallApplicationRule has a new parameter target_fqdns
Model VpnGateway has a new parameter vpn_gateway_scale_unit
Model ApplicationGatewayBackendHttpSettings has a new parameter trusted_root_certificates
Model VirtualNetworkGatewayConnection has a new parameter connection_protocol
Model ExpressRouteCircuitPeering has a new parameter express_route_connection
Model Subnet has a new parameter delegations
Model Subnet has a new parameter address_prefixes
Model Subnet has a new parameter ipconfiguration_profiles
Model Subnet has a new parameter service_association_links
Model Subnet has a new parameter interface_endpoints
Model Subnet has a new parameter purpose
Model ApplicationGateway has a new parameter trusted_root_certificates
Model NetworkInterface has a new parameter tap_configurations
Model NetworkInterface has a new parameter hosted_workloads
Model NetworkInterface has a new parameter interface_endpoint
Model VirtualNetworkGatewayConnectionListEntity has a new parameter connection_protocol
Model HubVirtualNetworkConnection has a new parameter enable_internet_security
Model NetworkInterfaceIPConfiguration has a new parameter virtual_network_taps
Added operation
VirtualNetworkGatewaysOperations.reset_vpn_client_shared_key
Added operation group ExpressRouteConnectionsOperations
Added operation group AzureFirewallFqdnTagsOperations
Added operation group VirtualNetworkTapsOperations
Added operation group NetworkProfilesOperations
Added operation group P2sVpnServerConfigurationsOperations
Added operation group AvailableDelegationsOperations
Added operation group InterfaceEndpointsOperations
Added operation group P2sVpnGatewaysOperations
Added operation group AvailableResourceGroupDelegationsOperations
- Added operation group ExpressRouteGatewaysOperations
- Added operation group NetworkInterfaceTapConfigurationsOperations

**Breaking changes**

- Model VirtualHub no longer has parameter `hub_virtual_network_connections`
- Model VpnConnection no longer has parameter `connection_bandwidth_in_mbps`
- Model AzureFirewallApplicationRule no longer has parameter `target_urls`
- Model VpnGateway no longer has parameter `policies`
- Model AzureFirewallIPConfiguration no longer has parameter `internal_public_ip_address`
- Model ApplicationGatewayAutoscaleConfiguration has a new signature
- Renamed `virtual_wa_ns` to `virtual_wans`

## 2.1.0 (2018-08-28)

Default API version is now 2018-07-01

**Features**

- Model ExpressRouteCircuit has a new parameter `allow_global_reach`
- Model PublicIPAddress has a new parameter `public_ip_prefix`
- Model BackendAddressPool has a new parameter `outbound_rule` (replaces `outbound_nat_rule`)
- Model FrontendIPConfiguration has a new parameter `outbound_rules` (replaces `outbound_nat_rule`)
- Model LoadBalancingRule has a new parameter `enable_tcp_reset`
- Model VirtualNetworkGatewayConnectionListEntity has a new parameter `express_route_gateway_bypass`
- Model VirtualNetworkGatewayConnection has a new parameter `express_route_gateway_bypass`
- Model Subnet has a new parameter `service_endpoint_policies`
- Model InboundNatPool has a new parameter `enable_tcp_reset`
- Model LoadBalancer has a new parameter `outbound_rules` (replaces `outbound_nat_rule`)
- Model InboundNatRule has a new parameter `enable_tcp_reset`
- Added operation group ServiceEndpointPolicyDefinitionsOperations
- Added operation group ServiceEndpointPoliciesOperations
- Added operation group PublicIPPrefixesOperations

**Breaking changes**

- Model BackendAddressPool no longer has parameter `outbound_nat_rule`
  (now `outbound_rules`)
- Model FrontendIPConfiguration no longer has parameter outbound_nat_rules (now outbound_rules)
- Model LoadBalancer no longer has parameter outbound_nat_rules (now outbound_rules)

## 2.0.1 (2018-08-07)

**Bugfixes**

- Fix packet_captures.get_status empty output

## 2.0.0 (2018-07-27)

**Features**

- Supports now 2018-06-01 and 2018-04-01. 2018-06-01 is the new default.
- Client class can be used as a context manager to keep the underlying HTTP session open for performance

**Features starting 2018-04-01**

- Model FlowLogInformation has a new parameter flow_analytics_configuration
- Model ApplicationGateway has a new parameter enable_fips
- Model ApplicationGateway has a new parameter autoscale_configuration
- Model ApplicationGateway has a new parameter zones
- Model ConnectionSharedKey has a new parameter id
- Added operation group HubVirtualNetworkConnectionsOperations
- Added operation group AzureFirewallsOperations
- Added operation group VirtualHubsOperations
- Added operation group VpnGatewaysOperations
- Added operation group VpnSitesOperations
- Added operation group VirtualWANsOperations
- Added operation group VpnSitesConfigurationOperations
- Added operation group VpnConnectionsOperations

**Breaking changes starting 2018-04-01**

- Operation VirtualNetworkGatewayConnectionsOperations.set_shared_key has a new parameter "id"
- Operation DdosProtectionPlansOperations.create_or_update parameter "parameters" has been flatten to "tags/location"

**Breaking changes starting 2018-06-01**
- The new class VpnConnection introduced in 2018-04-01 renamed "connection_bandwidth" to "connection_bandwidth_in_mbps"

## 2.0.0rc3 (2018-06-14)

**Bugfixes**

- API version 2018-02-01 enum Probe now supports HTTPS (standard SKU load balancer)
- API version 2015-06-15 adding missing "primary" in NetworkInterfaceIPConfiguration

## 2.0.0rc2 (2018-04-03)

**Features**

- All clients now support Azure profiles.
- API version 2018-02-01 is now the default
- Express Route Circuit Connection (considered preview)
- Express Route Provider APIs
- GetTopologyOperation supports query parameter
- Feature work for setting Custom IPsec/IKE policy for Virtual Network Gateway point-to-site clients
- DDoS Protection Plans

## 2.0.0rc1 (2018-03-07)

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes.

- Model signatures now use only keyword-argument syntax. All positional arguments must be re-written as keyword-arguments. To keep auto-completion in most cases, models are now generated for Python 2 and Python 3. Python 3 uses the "**" syntax for keyword-only arguments.
- Enum types now use the "str" mixin (class AzureEnum(str, Enum)) to improve the behavior when unrecognized enum values are encountered. While this is not a breaking change, the distinctions are important, and are documented here: http://docs.python.org/3/library/enum.html#others At a glance:
  - "is" should not be used at all.
  - "format" will return the string value, where "%s" string formatting will return 'NameOfEnum.stringValue'. Format syntax should be preferred.
- New Long Running Operation:
  - Return type changes from
`msrestazure.azure_operation.AzureOperationPoller` to `msrest.polling.LROPoller`. External API is the same.
- Return type is now **always** a `msrest.polling.LROPoller`, regardless of the optional parameters used.
- The behavior has changed when using `raw=True`. Instead of returning the initial call result as `ClientRawResponse`, without polling, now this returns an LROPoller. After polling, the final resource will be returned as a `ClientRawResponse`.
- New `polling` parameter. The default behavior is `Polling=True` which will poll using ARM algorithm. When `Polling=False`, the response of the initial call will be returned without polling.
- `polling` parameter accepts instances of subclasses of `msrest.polling.PollingMethod`.
- `add_done_callback` will no longer raise if called after polling is finished, but will instead execute the callback right away.

**Network Breaking changes**

- Operation `network_watcher.get_topology` changed method signature

**Features**

- Add `ConnectionMonitor` operation group (2017-10/11-01)
- Add `target_virtual_network / target_subnet` to `topology_parameter` (2017-10/11-01)
- Add `idle_timeout_in_minutes / enable_floating_ip` to `inbound_nat_pool` (2017-11-01)

**Bugfixes**

- Fix `peer_asn` validation rules (2017-10/11-01)

### 1.7.1 (2017-12-20)

**Bugfixes**

Fix `SecurityRule` constructor parameters order to respect the one used until 1.5.0. This indeed introduces a breaking change for users of 1.6.0 and 1.7.0, but this constructor signature change was not expected, and following semantic versionning all 1.x versions should follow the same signature.

This fixes third party library, like Ansible, that expects (for excellent reasons) this SDK to follow strictly semantic versionning with regards to breaking changes and have their dependency system asking for
## 1.7.0 (2017-12-14)

**Features**

- Add iptag. IpTag is way to restrict the range of IPaddresses to be allocated.
- Default API version is now 2017-11-01

**Bug fixes**

- Added valid ASN range in ExpressRouteCircuitPeering (#1672)

## 1.6.0 (2017-11-28)

**Bug fixes**

- Accept space in location for "usage" (i.e. "west us").
- sourceAddressPrefix, sourceAddressPrefixes and sourceApplicationSecurityGroups are mutually exclusive and one only is needed, meaning none of them is required by itself. Thus, sourceAddressPrefix is not required anymore.
- destinationAddressPrefix, destinationAddressPrefixes and destinationApplicationSecurityGroups are mutually exclusive and one only is needed, meaning none of them is required by itself. Thus, destinationAddressPrefix is not required anymore.
- Client now accept unicode string as a valid subscription_id parameter
- Restore missing azure.mgmt.network.__version__

**Features**

- Client now accept a "profile" parameter to define API version per operation group.
- Add update_tags to most of the resources
- Add operations group to list all available rest API operations
- NetworkInterfaces_ListVirtualMachineScaleSetIpConfigurations
- NetworkInterfaces_GetVirtualMachineScaleSetIpConfiguration

## 1.5.0 (2017-09-26)

**Features**

- Availability Zones
- Add network_watchers.get_azure_reachability_report
- Add network_watchers.list_available_providers
- Add virtual_network_gateways.supported_vpn_devices
- Add virtual_network_gateways.vpn_device_configuration_script

## 1.5.0rc1 (2017-09-18)

**Features**

- Add ApiVersion 2017-09-01 (new default)
- Add application_security_groups (ASG) operations group
- Add ASG to network_interface operations
- Add ASG to IP operations
- Add source/destination ASGs to network security rules
- Add DDOS protection and VM protection to vnet operations

**Bug fix**

- check_dns_name_availability now correctly defines "domain_name_label" as required and not optional

## 1.4.0 (2017-08-23)

**Features**

- Add ApiVersion 2017-08-01 (new default)
- Added in both 2017-08-01 and 2017-06-01:
  - virtual_network_gateways.list_connections method
  - default_security_rules operations group
  - inbound_nat_rules operations group
  - load_balancer_backend_address_pools operations group
  - load_balancer_frontend_ip_configurations operations group
  - load_balancer_load_balancing_rules operations group
  - load_balancer_network_interfaces operations group
  - load_balancer_probes operations group
  - network_interface_ip_configurations operations group
  - network_interface_load_balancers operations group
  - EffectiveNetworkSecurityGroup.tag_map attribute
  - EffectiveNetworkSecurityRule.source_port_ranges attribute
  - EffectiveNetworkSecurityRule.destination_port_ranges attribute
  - EffectiveNetworkSecurityRule.source_address_prefixes attribute
  - EffectiveNetworkSecurityRule.destination_address_prefixes attribute
- Added in 2017-08-01 only
  - PublicIPAddress.sku
  - LoadBalancer.sku
**Changes on preview**

> - "available_private_access_services" is renamed
> "available_endpoint_services"
> - "radius_secret" parsing fix (was unable to work in 1.3.0)

### 1.3.0 (2017-07-10)

**Preview features**

- Adding "available_private_access_services" operation group (preview)
- Adding "radius_secret" in Virtual Network Gateway (preview)

**Bug Fixes**

- VMSS Network ApiVersion fix in 2017-06-01 (point to 2017-03-30)

### 1.2.0 (2017-07-03)

**Features**

Adding the following features to both 2017-03-01 and 2017-06-01:

- express route ipv6
- VMSS Network (get, list, etc.)
- VMSS Public IP (get, list, etc.)

### 1.1.0 (2017-06-27)

**Features**

- Add list_usage in virtual networks (2017-03-01)
- Add ApiVersion 2017-06-01 (new default)

This new ApiVersion is for new Application Gateway features:

> - ApplicationGateway Ssl Policy custom cipher suites support [new properties added to SslPolicy Property of ApplicationGatewayPropertiesFormat]
> - Get AvailableSslOptions api [new resource ApplicationGatewayAvailableSslOptions and child resource ApplicationGatewayPredefinedPolicy]
> - Redirection support [new child resource ApplicationGatewayRedirectConfiguration for Application Gateway, new properties in UrlPathMap, PathRules and RequestRoutingRule]
> - Azure Websites feature support [new properties in ApplicationGatewayBackendHttpSettingsPropertiesFormat]
> ApplicationGatewayProbePropertiesFormat, schema for property
> ApplicationGatewayProbeHealthResponseMatch

## 1.0.0 (2017-05-15)

- Tag 1.0.0rc3 as stable (same content)

## 1.0.0rc3 (2017-05-03)

**Features**

- Added check connectivity api to network watcher

## 1.0.0rc2 (2017-04-18)

**Features**

- Add ApiVersion 2016-12-01 and 2017-03-01
- 2017-03-01 is now default ApiVersion

**Bugfixes**

- Restore access to NetworkWatcher and PacketCapture from 2016-09-01

## 1.0.0rc1 (2017-04-11)

**Features**

To help customers with sovereign clouds (not general Azure), this version has official multi ApiVersion support for 2015-06-15 and 2016-09-01

## 0.30.1 (2017-03-27)

- Add NetworkWatcher
- Add PacketCapture
- Add new methods to Virtualk Network Gateway
  - get_bgp_peer_status
  - get_learned_routes
  - get_advertised_routes

## 0.30.0 (2016-11-01)

- Initial preview release. Based on API version 2016-09-01.

## 0.20.0 (2015-08-31)

1.2272 sbsigntool 1.3

1.2272.1 Available under license:

sbsigntool - utilities for signing UEFI binaries for use with secure boot.

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1.2287 artemis-selector 2.10.1
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1.2288 opensaml-xmlsec-impl 3.3.0

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1.2290 python-defaults 2.7.12-1~16.04
1.2290.1 Available under license:

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This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and
A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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@end enumerate

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DRuntime: Runtime Library for the D Programming Language

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1.2302 weld-api 3.1.SP2

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* https://github.com/eclipse-ee4j/jaxb-fi
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1.2312 jackson-xc 2.11.3

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* /opt/ws_local/PERMITS_SQL/1094801243_1601320735.8/0/microprofile-rest-client-api-1-4-0-sources-
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* /opt/ws_local/PERMITS_SQL/1094801243_1601320735.8/0/microprofile-rest-client-api-1-4-0-sources-
jar/org/eclipse/microprofile/rest/client/ext/ResponseExceptionMapper.java
* /opt/ws_local/PERMITS_SQL/1094801243_1601320735.8/0/microprofile-rest-client-api-1-4-0-sources-

jar/org/eclipse/microprofile/rest/client/annotation/RegisterProvider.java
*/opt/ws_local/PERMITS_SQL/1094801243_1601320735.8/0/microprofile-rest-client-api-1-4-0-sources-
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1.2315 **simpleclient 0.6.0**

1.2316 **wildfly-elytron-http-util 1.11.4.Final**

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1.2317 jackson-jaxrs-base 2.11.3

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1.2318 dbus-glib 0.106 1

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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/AbstractByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/AbstractByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/PoolArena.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
1.2323 rtmpdump 2.4+20151223.gitfa8646d-1ubuntu0.1

1.2323.1 Available under license:

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes.  The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html
OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.2334 wget 1.19.5
1.2334.1 Available under license :

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  jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /opt/cola/permits/1141637169_1615091308.85/0/spring-expression-5-1-17-release-sources-
  jar/org/springframework/expression/spel/standard/SpelExpression.java

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* /opt/cola/permits/1141637169_1615091308.85/0/spring-expression-5-1-17-release-sources-
  jar/org/springframework/expression/spel/ast/OpInc.java
* /opt/cola/permits/1141637169_1615091308.85/0/spring-expression-5-1-17-release-sources-
  jar/org/springframework/expression/OperatorOverloader.java
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1.2338 apr-util 1.5.4

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```
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```
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```
1.2339 zlib 1.2.11

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* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-
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1.2360 azure-storage 6.1.0

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1.2369 e2fsprogs 1.44.1 1ubuntu1.3

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*/
Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c

Open Source Used In SDWan 20.7.1 25431
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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<one line to give the program's name and a brief idea of what it does.>
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under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
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<signature of Ty Coon>, 1 April 1989
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2.1.16.RELEASE
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<name>Apache License, Version 2.0</name>

Found in path(s):

1.2371 pango 1.40.14
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also compile or
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Ty Coon, President of Vice

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1.2372 openjdk-orb 8.1.4.Final

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Version 2, June 1991

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1.2374 wildfly-protocol 11.1.1.Final

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* /opt/ws_local/PERMITS_SQL/1094802951_1601319454.03/0/wildfly-elytron-x500-principal-1.11.4-final-sources-jar/org/wildfly/security/x500/principal/X500SubjectEvidenceDecoder.java

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.
A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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@heading TERMS AND CONDITIONS

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that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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  jar/io/netty/handler/codec/compression/CompressionUtil.java
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* Enumeration of supported Base64 dialects.
* <p>
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/**
* Utility class for { @link ByteBuf } that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
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/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <pre>
 * lengthFieldOffset   = 0
 * lengthFieldLength   = 2
 * lengthAdjustment    = 0
 * initialBytesToStrip = 0 (= do not strip header)
 * </pre>
 *
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * +-------------------+ +-------------------+
 * | Length | Actual Content | Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
 * +-------------------+ +-------------------+
 * </pre>
 *
 * <h3>2 bytes length field at offset 0, strip header</h3>
 *
 * <ch3>2 bytes length field at offset 0, strip header</ch3>
Because we can get the length of the content by calling `ByteBuf#readableBytes()`, you might want to strip the length field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we specified `<tt>2</tt>`, that is same with the length of the length field, to strip the first two bytes.

```java
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
```

Before decode (14 bytes) after decode (12 bytes)
```
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+
```

### 2 bytes length field at offset 0, do not strip header, the length field represents the length of the whole message

In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero `lengthAdjustment`. Because the length value in this example message is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>` as `lengthAdjustment` for compensation.

```java
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = -2
```

Before decode (14 bytes) after decode (14 bytes)
```
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

### 3 bytes length field at the end of 5 bytes header, do not strip header

The following message is a simple variation of the first example. An extra header value is prepended to the message. `lengthAdjustment` is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.
* lengthFieldOffset = 2 (= the length of Header 1)
* lengthFieldLength = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Length   | Header 1 | Actual Content |----->| Length   | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Length   | Header 1 | Actual Content |----->| Length   | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive <tt>lengthAdjustment</tt> so that the decoder counts the extra header into the frame length calculation.

* lengthFieldOffset = 0
* lengthFieldLength = 3
* lengthAdjustment = 2 (= the length of Header 1)
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero <tt>initialBytesToStrip</tt> to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* lengthAdjustment = 1 (= the length of HDR2)
* initialBytesToStrip = 3 (= the length of HDR1 + LEN)
* Let's give another twist to the previous example. The only difference from
  * the previous example is that the length field represents the length of the
  * whole message instead of the message body, just like the third example.
  * We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
  * Please note that we don't need to take the length of HDR2 into account
  * because the length field already includes the whole header length.
* <pre>
  * lengthFieldOffset   = 1
  * lengthFieldLength   = 2
  * <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
  * <b>initialBytesToStrip</b> = <b> 3</b>
  *
  * BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
  * +-----------------+-----------------+-----------------+
  * | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
  * | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  * +-----------------+-----------------+-----------------+
  */

* @see LengthFieldPrepender
*/

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1.2390 prometheus-procfs 0.0.2

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promcs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.2391 simpleclient-servlet 0.0.15

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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6e6eb27

1.2394 java-nats-streaming 2.2.3

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* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/benchmark/Sample.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/ConnectionLostHandler.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/package-info.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/benchmark/SampleGroup.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/benchmark/Utils.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/StreamingConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/StreamingConnection.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/SubscriptionImpl.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/Message.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/Subcription.java
1.2395 lang-painless 6.8.10

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*/
/**
* Painless invokedynamic bootstrap for the call site.
* <p>
* Has 11 flavors (passed as static bootstrap parameters): dynamic method call,
* dynamic field load (getter), and dynamic field store (setter), dynamic array load,
* dynamic array store, iterator, method reference, unary operator, binary operator,
* shift operator, and dynamic array index normalize.
* <p>
* When a new type is encountered at the call site, we lookup from the appropriate
* whitelist, and cache with a guard. If we encounter too many types, we stop caching.
* <p>
* Based on the cascaded inlining cache from the JSR 292 cookbook
* (https://code.google.com/archive/p/jsr292-cookbook/, BSD license)
*/

Found in path(s):
* /opt/cola/permits/1101137062_1603146342.48/0/lang-painless-6-8-sources-
jar/org/elasticsearch/painless/DefBootstrap.java

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* /opt/cola/permits/1101137062_1603146342.48/0/lang-painless-6-8-sources-
jar/org/elasticsearch/painless/Def.java
* /opt/cola/permits/1101137062_1603146342.48/0/lang-painless-6-8-sources-
jar/org/elasticsearch/painless/Locals.java
* /opt/cola/permits/1101137062_1603146342.48/0/lang-painless-6-8-sources-
jar/org/elasticsearch/painless/node/SContinue.java
* /opt/cola/permits/1101137062_1603146342.48/0/lang-painless-6-8-sources-
jar/org/elasticsearch/painless/WriterConstants.java
* /opt/cola/permits/1101137062_1603146342.48/0/lang-painless-6-8-sources-
1.2396 jdom 1.0
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$Id: Content.java,v 1.5 2004/09/07 06:37:20 jhunter Exp$

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/*

Found in path(s):
* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/filter/NegateFilter.java
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$Id: CDATA.java,v 1.30 2004/02/27 11:32:57 jhunter Exp $

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Found in path(s):
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/**<*/

$Id: OrFilter.java,v 1.4 2004/02/06 09:28:31 jhunter Exp $

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$Id: DOMAdapter.java,v 1.21 2004/02/06 09:28:31 jhunter Exp$

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/adapters/DOMAdapter.java

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$Id: JDOMParseException.java,v 1.7 2004/02/17 02:29:24 jhunter Exp$

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$Id: AttributeList.java,v 1.23 2004/02/28 03:30:27 jhunter Exp $

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Slid: XML4JDOMAdapter.java,v 1.17 2004/02/06 09:28:31 jhunter Exp $

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/input/TextBuffer.java
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$Id: DOMOutputter.java,v 1.41 2004/09/03 06:03:42 jhunter Exp $

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/*

$Id: BuilderErrorHandler.java,v 1.12 2004/02/06 09:28:31 jhunter Exp $

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$Id: XMLOutputter.java,v 1.112 2004/09/01 06:08:18 jhunter Exp $

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$Id: ElementFilter.java,v 1.18 2004/09/07 06:37:20 jhunter Exp $

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$Id: FilterIterator.java,v 1.5 2004/08/31 19:36:12 jhunter Exp $

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$Id: IllegalArgumentException.java,v 1.14 2004/02/06 09:28:30 jhunter Exp $

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/*--

$Id: CrimsonDOMAdapter.java,v 1.16 2004/02/06 09:28:31 jhunter Exp $

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-
  jar/org/jdom/adapters/CrimsonDOMAdapter.java

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$Id: Attribute.java,v 1.52 2004/03/01 23:58:28 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/Attribute.java
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$Id: XSLTransformException.java,v 1.3 2004/02/06 09:28:32 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-
jar/org/jdom/transform/XSLTransformException.java
No license file was found, but licenses were detected in source scan.

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$Id: JDOMException.java,v 1.23 2004/02/27 11:32:57 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/JDOMException.java

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$Id: IllegalAddException.java,v 1.25 2004/02/06 09:28:30 jhunter Exp $
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$Id: JDOMSource.java,v 1.18 2004/08/31 04:43:48 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/transform/JDOMSource.java
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$Id: SAXHandler.java,v 1.68 2004/08/31 06:14:05 jhunter Exp $

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$Id: ContentList.java,v 1.39 2004/02/28 03:30:27 jhunter Exp $

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$Id: Text.java,v 1.24 2004/02/27 11:32:57 jhunter Exp $

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$Id: DOMBuilder.java,v 1.59 2004/09/03 06:03:41 jhunter Exp $

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/ *--

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$Id: EscapeStrategy.java,v 1.3 2004/02/06 09:28:32 jhunter Exp $

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/*...

$Id: OracleV1DOMAdapter.java,v 1.19 2004/02/06 09:28:31 jhunter Exp $

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$Id: DefaultJDOMFactory.java,v 1.6 2004/09/01 05:25:38 jhunter Exp$

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$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp $

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$Id: ProcessingInstruction.java,v 1.46 2004/02/27 11:32:57 jhunter Exp $

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Found in path(s):
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jar/org/jdom/adapters/XercesDOMAdapter.java
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/*--

$Id: OracleV2DOMAdapter.java,v 1.18 2004/02/06 09:28:31 jhunter Exp$

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$Id: DescendantIterator.java,v 1.5 2004/02/27 11:32:57 jhunter Exp $

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$Id: AbstractFilter.java,v 1.5 2004/02/27 11:32:58 jhunter Exp $

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$Id: SAXOutputter.java,v 1.37 2004/09/03 06:11:00 jhunter Exp $

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$Id: AbstractDOMAdapter.java,v 1.20 2004/02/06 09:28:31 jhunter Exp $

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$Id: DocType.java,v 1.31 2004/02/27 11:32:57 jhunter Exp $

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$Id: Format.java,v 1.10 2004/09/07 06:37:20 jhunter Exp $

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/ * - - 

$Id: JAXPDOMAdapter.java,v 1.12 2004/02/06 09:28:31 jhunter Exp $

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$Id: Namespace.java,v 1.41 2004/02/27 11:32:57 jhunter Exp$

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$Id: DataConversionException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp $

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1.2407 httpcore-nio 4.4.5
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</head>

<body>

<!-- Navigation -->
<header>
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<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
</div>
</nav>
</header>

<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
</div>
</nav>

</body>
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1.2408 jackson-mapper-asl 1.9.13.redhat-00006

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1.2409 trio-asycnio 0.12.0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.2412 adduser 3.116ubuntu1

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1.2414 simplejson 3.13.2

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1.2421 jackson-databind 2.10.1

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1.2426 wildfly-clustering-marshalling-api

19.1.0.Final

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* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
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  jar/org/springframework/boot/autoconfigure/influx/InfluxDbAutoConfiguration.java
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  jar/org/springframework/boot/autoconfigure/transaction/package-info.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
  jar/org/springframework/boot/autoconfigure/info/ProjectInfoAutoConfiguration.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
* `/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources.jar/org/springframework/boot/autoconfigure/orm/jpa/HibernateProperties.java`
* `/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources.jar/org/springframework/boot/autoconfigure/AutoConfigurationPackage.java`
* `/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources.jar/org/springframework/boot/autoconfigure/hateoas/HateoasProperties.java`
* `/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources.jar/org/springframework/boot/autoconfigure/quartz/SchedulerFactoryBeanCustomizer.java`
* `/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources.jar/org/springframework/boot/autoconfigure/jersey/JerseyAutoConfiguration.java`
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* `/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources.jar/org/springframework/boot/autoconfigure/jersey/JerseyAutoConfiguration.java`
* `/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources.jar/org/springframework/boot/autoconfigure/web/reactive/WebFluxRegistrations.java`
* `/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources.jar/org/springframework/boot/autoconfigure/transaction/jta/JtaProperties.java`
* `/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources.jar/org/springframework/boot/autoconfigure/web/reactive/WebFluxAutoConfiguration.java`
* `/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources.jar/org/springframework/boot/autoconfigure/mongo/package-info.java`
* `/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources.jar/org/springframework/boot/autoconfigure/web/reactive/WebFluxAutoConfiguration.java`
* `/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources.jar/org/springframework/boot/autoconfigure/transaction/TransactionProperties.java`

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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derivative work of the Library even though the source code is not.
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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1.2442 pyasn1 0.4.2

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ASN.1 library for Python
------------------------
[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.python.org/pypi/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.python.org/pypi/pyasn1/)
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[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------
* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
-----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
```

```
```
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            ),
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            ),
        ),
    )

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
  id is 123
  room is 321
  house is 0

>>> record == received_record
True

>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
--------------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question on Stack Overflow [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/README.md
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.. _license:

License
=======

.. include:: ../../LICENSE.rst

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* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/docs/source/license.rst
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ASN.1 library for Python

Abstract Syntax Notation One (`ASN.1` <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`) is a
technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.python.org/pypi/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protobuf>`, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::
  :maxdepth: 2

/pyasn1/contents

Use case
-------

.. toctree::
  :maxdepth: 2

/example-use-case

Download & Install
-----------------

.. toctree::
Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

License
-------

The PyASN1 software is distributed under 2-clause BSD License.

Getting help
-------------


Books on ASN.1
----------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson
Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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```
Found in path(s):
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/docs/source/contents.rst
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* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/LICENSE.rst

1.2443 libxext 1.3.3-1+b2

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1.2444 hk2-utils 2.5.0

1.2445 kbd 1.15.5 1ubuntu5
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```
PC Screen (console) Fonts - psf1 header

0 leshort 0x0436 psf screen font data
> 2 byte 0 256 characters, no index
> 2 byte 1 512 characters, no index
> 2byte2256 characters, Unicode index
> 2byte3512 characters, Unicode index
> 2byte4256 characters, Unicode level 2 index
> 2byte5512 characters, Unicode level 2 index
> 3byte8x8%d

PC Screen (console) Fonts - psf2 header

0 lelong0x864ab572 psf2 screen font data
> 12 lelong&1 1 with Unicode index
> 16 lelong x8b, %d glyphs
> 28 lelong x8b, %d
> 24 lelong x8b%d
```

```
nn
```
```
```
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: kbd
Upstream-Contact: kbd@lists.altlinux.org, Alexey Gladkov <gladkov.alexey@gmail.com>
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Files: *
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src/findfile.c src/getfd.c src/getkeycodes.c src/getunimap.c
src/kbd_mode.c src/loadunimap.c src/psffontop.c src/psfxtable.c
src/resizecons.c src/screendump.c src/setkeycodes.c src/setleds.c
src/setmetamode.c src/setvesablank.c src/showconsolefont.c
src/spawn_console.c src/spawn_login.c man/man1/chvt.1
man/man1/deallocvt.1 man/man1/kbd_mode.1 man/man1/setleds.1
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man/man8/loadunimap.8 man/man8/resizecons.8
man/man8/setkeycodes.8

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Files: man/man1/misc/splitfont.1 man/man1/openvt.1
man/man1/misc/setlogcons.8 man/man8/misc/vcstime.8

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setleds.c setmetamode.c setsesablanke.c showconsolefont.c
spawn_console.c spawn_login.c
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Manifest-Version: 1.0
Automatic-Module-Name: io.swagger.v3.core
Bnd-LastModified: 1573915093539
Build-Jdk: 1.8.0_151
Built-By: frantuma
Bundle-Description: Sonatype helps open source projects to set up Maven
repositories on https://oss.sonatype.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: swagger-core
Bundle-SymbolicName: io.swagger.core.v3.swagger-core
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Initialize empty image
f1c9645d8bc14efdd7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2ecf1 bsd.img

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device   Boot Start  End Sectors Size  Id  Type
<removed>1   2048 4095  2048 1M  83  Linux

Create 2nd primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device   Boot Start  End Sectors Size  Id  Type
<removed>1   2048 4095  2048 1M  83  Linux
<removed>2   4096 20479 16384  8M  a5  FreeBSD

Create default BSD
2e1cee529cb59e9341aef0443f196a1 bsd.img

---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
c  4096 20479   16384    8M unused     0  0  0
d  0 16064   16065  7.9M unused     0  0  0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img
---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
a  4096 6144   2049 1M 4.2BSD     0  0  0
c  4096 20479   16384 8M unused     0  0  0
d  0 16064   16065 7.9M unused     0  0  0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):
0  unused      5  4.1BSD      9  4.4LFS      d  boot
1  swap       6  Eighth Edition a  unknown   e  ADOS
2  Version 6  7  4.2BSD      b  HPFS       f  HFS
3  Version 7  8  MS-DOS      c  ISO-9660   10  AdvFS
4  System V

Command (m for help):
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1.2450 grok 6.8.10

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#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <error.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <preapargs.h>
#include <progammae.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>
/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS \
   proper_name ("Paul Eggert"), \
   proper_name ("Mike Haertel"), \
   proper_name ("David Hayes"), \
   proper_name ("Richard Stallman"), \
   proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
#define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
   char *regexps;/* chars representing disjunction of the regexps */
   size_t len;/* chars used in 'regexps' */
   size_t size;/* size malloc'ed for 'regexps'; 0 if not malloc'ed */
   bool multiple_regexps;/* Does 'regexps' represent a disjunction? */
   struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary). */
   On POSIX hosts, this has no effect. */
static bool binary;
#else
   enum { binary = true }
;
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty
   (--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s).
   Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =
  "0123456789abCcdDeEfFhiIL:nNpPqrsStTuUvwW:x:X:yYZ";

/* Values for long options that do not have single-letter equivalents. */
enum {
  BINARY_OPTION = CHAR_MAX + 1,
  FROM_FILE_OPTION,
  HELP_OPTION,
  HORIZON_LINES_OPTION,
  IGNORE_FILE_NAME_CASE_OPTION,
  INHIBIT_HUNK_MERGE_OPTION,
  LEFT_COLUMN_OPTION,
  LINE_FORMAT_OPTION,
  NO_DEREFERENCE_OPTION,
  NO_IGNORE_FILE_NAME_CASE_OPTION,
  NORMAL_OPTION,
  SDIFF_MERGE_ASSIST_OPTION,
  STRIP_TRAILING_CR_OPTION,
  SUPPRESS_BLANK_EMPTY_OPTION,
  SUPPRESS_COMMON_LINES_OPTION,
  TABSIZE_OPTION,
  TO_FILE_OPTION,

  /* These options must be in sequence. */
  UNCHANGED_LINE_FORMAT_OPTION,
  OLD_LINE_FORMAT_OPTION,
  NEW_LINE_FORMAT_OPTION,

  /* These options must be in sequence. */
  UNCHANGED_GROUP_FORMAT_OPTION,
  OLD_GROUP_FORMAT_OPTION,
  NEW_GROUP_FORMAT_OPTION,
  CHANGED_GROUP_FORMAT_OPTION
};
static char const group_format_option[] = {
    "--unchanged-group-format",
    "--old-group-format",
    "--new-group-format",
    "--changed-group-format"
};

static char const line_format_option[] = {
    "--unchanged-line-format",
    "--old-line-format",
    "--new-line-format"
};

static struct option const longopts[] = {
    {"binary", 0, 0, BINARY_OPTION},
    {"brief", 0, 0, 'q'},
    {"changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION},
    {"context", 2, 0, 'C'},
    {"ed", 0, 0, 'e'},
    {"exclude", 1, 0, 'x'},
    {"exclude-from", 1, 0, 'X'},
    {"expand-tabs", 0, 0, 't'},
    {"forward-ed", 0, 0, 'r'},
    {"from-file", 1, 0, FROM_FILE_OPTION},
    {"help", 0, 0, HELP_OPTION},
    {"horizon-lines", 1, 0, HORIZON_LINES_OPTION},
    {"ifdef", 1, 0, 'D'},
    {"ignore-all-space", 0, 0, 'w'},
    {"ignore-blank-lines", 0, 0, 'B' },
    {"ignore-case", 0, 0, 'i'},
    {"ignore-file-name-case", 0, 0, IGNORE_FILE_NAME_CASE_OPTION},
    {"ignore-matching-lines", 1, 0, 'I' },
    {"ignore-space-change", 0, 0, 'b'},
    {"ignore-tab-expansion", 0, 0, 'E'},
    {"ignore-trailing-space", 0, 0, 'Z'},
    {"inhibit-hunk-merge", 0, 0, INHIBIT_HUNK_MERGE_OPTION},
    {"initial-tab", 0, 0, 'T'},
    {"label", 1, 0, 'L'},
    {"left-column", 0, 0, LEFT_COLUMN_OPTION},
    {"line-format", 1, 0, LINE_FORMAT_OPTION},
    {"minimal", 0, 0, 'd'},
    {"new-file", 0, 0, 'N'},
    {"new-group-format", 1, 0, NEW_GROUP_FORMAT_OPTION},
    {"new-line-format", 1, 0, NEW_LINE_FORMAT_OPTION},
};
{"no-dereference", 0, 0, NO_DEREFERENCE_OPTION},
{"no-ignore-file-name-case", 0, 0, NO_IGNORE_FILE_NAME_CASE_OPTION},
{"normal", 0, 0, NORMAL_OPTION},
{"old-group-format", 1, 0, OLD_GROUP_FORMAT_OPTION},
{"old-line-format", 1, 0, OLD_LINE_FORMAT_OPTION},
{"paginate", 0, 0, 't'},
{"rcs", 0, 0, 'n'},
{"recursive", 0, 0, 'r'},
{"report-identical-files", 0, 0, 's'},
{"sdiff-merge-assist", 0, 0, SDIFF_MERGE_ASSIST_OPTION},
{"show-c-function", 0, 0, 'p'},
{"show-function-line", 1, 0, 'F'},
{"side-by-side", 0, 0, 'y'},
{"speed-large-files", 0, 0, 'H'},
{"starting-file", 1, 0, 'S'},
{"strip-trailing-cr", 0, 0, STRIP_TRAILING_CR_OPTION},
{"suppress-blank-empty", 0, 0, SUPPRESS_BLANK_EMPTY_OPTION},
{"suppress-common-lines", 0, 0, SUPPRESS_COMMON_LINES_OPTION},
{"tabsize", 1, 0, TABSIZE_OPTION},
{"text", 0, 0, 'a'},
{"to-file", 1, 0, TO_FILE_OPTION},
{"unchanged-group-format", 1, 0, UNCHANGED_GROUP_FORMAT_OPTION},
{"unchanged-line-format", 1, 0, UNCHANGED_LINE_FORMAT_OPTION},
{"unidirectional-new-file", 0, 0, 'P'},
{"unified", 2, 0, 'U'},
{"version", 0, 0, 'v'},
{"width", 1, 0, 'W'},
{0, 0, 0}
};

/* Return a string containing the command options with which diff was invoked.
Spaces appear between what were separate ARGV-elements.
There is a space at the beginning but none at the end.
If there were no options, the result is an empty string.
Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT, the length of that vector. */

static char *
option_list (char **optionvec, int count)
{
    int i;
    size_t size = 1;
    char *result;
    char *p;

    for (i = 0; i < count; i++)
        size += 1 + shell_quote_length (optionvec[i]);
p = result = xmalloc (size);

for (i = 0; i < count; i++)
{
    *p++ = ' '; 
    p = shell_quote_copy (p, optionvec[i]);
}

*p = '\0';
return result;

/* Return an option value suitable for add_exclude. */

static int
exclude_options (void)
{
    return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int
main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
    int c;
    int i;
    int prev = -1;
    lin ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
    char const *from_file = NULL;
    char const *to_file = NULL;
    uintmax_t numval;
    char *numend;

    /* Do our initializations. */
extit_failure = EXIT_TROUBLE;
initialize_main (&argc, &argv);
set_program_name (argv[0]);
setlocale (LC_ALL, "");
bindtextdomain (PACKAGE, LOCALEDIR);
textdomain (PACKAGE);
c_stack_action (0);
function_regexp_list.buf = &function_regexp;
ignore_regexp_list.buf = &ignore_regexp;
re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
excluded = new_exclude();

/* Decode the options. */

while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
{
    switch (c)
    {
    case 0:
        break;

    case '0':
    case '1':
    case '2':
    case '3':
    case '4':
    case '5':
    case '6':
    case '7':
    case '8':
    case '9':
        if (! ISDIGIT (prev))
            ocontext = c - '0';
        else if (LIN_MAX / 10 < ocontext
            || ((ocontext = 10 * ocontext + c - '0') < 0))
            ocontext = LIN_MAX;
        break;

    case 'a':
        text = true;
        break;

    case 'b':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space = IGNORE_SPACE_CHANGE;
        break;

    case 'Z':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space |= IGNORE_TRAILING_SPACE;
        break;

    case 'B':
        ignore_blank_lines = true;
        break;

    case 'C':

case 'U':
{
    if (optarg)
    {
        numval = strtolmax(optarg, &numend, 10);
        if (*numend)
            try_help("invalid context length \"%s\", optarg);
        if (LIN_MAX < numval)
            numval = LIN_MAX;
        else
            numval = 3;
    }
    else
        numval = 3;

    specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
    if (context < numval)
        context = numval;
    explicit_context = true;
}
break;

case 'c':
    specify_style (OUTPUT_CONTEXT);
    if (context < 3)
        context = 3;
    break;

case 'd':
    minimal = true;
    break;

case 'D':
    specify_style (OUTPUT_IFDEF);
    {
        static char const C_ifdef_group_formats[] =
            "%%=%cifndef %s\n%@\nifndef %s\n%@\n#ifdef %s\n%@\n#ifdef %s\n%@\n#ifdef %s\n%@";
        char *b = xmalloc(sizeof C_ifdef_group_formats
            + 7 * strlen(optarg) - 14 /*7*"%s"*/ - 8 /*5*"%s"*/ + 3 /*%c*/);
        sprintf(b, C_ifdef_group_formats,
            optarg, optarg, 0,
            optarg, optarg, optarg,
            optarg, optarg, optarg);
        for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
            specify_value (&group_format[i], b, "-D");
        b += strlen(b) + 1;
    }
break;

case 'e':
specify_style (OUTPUT_ED);
browse;

case 'E':
if (ignore_white_space < IGNORE_SPACE_CHANGE)
    ignore_white_space |= IGNORE_TAB_EXPANSION;
browse;

case 'f':
specify_style (OUTPUT_FORWARD_ED);
browse;

case 'F':
    add_regexp (&function_regexp_list, optarg);
browse;

case 'h':
    /* Split the files into chunks for faster processing.
        Usually does not change the result.

        This currently has no effect. */
browse;

case 'H':
speed_large_files = true;
browse;

case 'i':
    ignore_case = true;
browse;

case 'I':
    add_regexp (&ignore_regexp_list, optarg);
browse;

case 'l':
    if (!pr_program[0])
        try_help ("pagination not supported on this host", NULL);
    paginate = true;
#ifdef SIGCHLD
    /* Pagination requires forking and waiting, and
        System V fork+wait does not work if SIGCHLD is ignored. */
signal (SIGCHLD, SIG_DFL);
#endif
break;

case 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
    else
        fatal ("too many file label options");
    break;

case 'n':
    specify_style (OUTPUT_RCS);
    break;

case 'N':
    new_file = true;
    break;

case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^[[:alpha:]$_]");
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;
case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
          AUTHORS, (char *) NULL);
    check_stdout ();
    return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
    if (add_exclude_file (add_exclude, excluded, optarg,
                  exclude_options (), 'u'))
        pfatal_with_name (optarg);
    break;

case 'y':
    specify_style (OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && & numval <= SIZE_MAX) || *numend)
        try_help ("invalid width '%s", optarg);
    if (width != numval)
        { if (width)
            fatal ("conflicting width options");
            width = numval;
        }
    break;

case BINARY_OPTION:
#if O_BINARY
    binary = true;
    if (! isatty (STDOUT_FILENO))
        set_binary_mode (STDOUT_FILENO, O_BINARY);
#endif

break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, "--from-file");
    break;

case HELP_OPTION:
    usage ();
    check_stdout ();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtolmax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length \%s", optarg);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
    break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
       compatibility. */
    break;

case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
    break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
    sdiff_merge_assist = true;
    break;

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
    break;

case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
    break;

case TABSIZE_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize '%s'", optarg);
    if (tabsize != numval)
        { 
            if (tabsize)
                fatal ("conflicting tabsize options");
            tabsize = numval;
        }
    break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
    break;

case UNCHANGED_LINE_FORMAT_OPTION:
    case OLD_LINE_FORMAT_OPTION:
    case NEW_LINE_FORMAT_OPTION:
        specify_style (OUTPUT_IFDEF);
        c -= UNCHANGED_LINE_FORMAT_OPTION;
        specify_value (&line_format[c], optarg, line_format_option[c]);
        break;

    case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value (&group_format[c], optarg, group_format_option[c]);
    break;

default:
    try_help (NULL, NULL);
}
    prev = c;
}

if (output_style == OUTPUT_UNSPECIFIED)
{
    if (show_c_function)
    {
        specify_style (OUTPUT_CONTEXT);
        if (ocontext < 0)
            context = 3;
    }
    else
        specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
    #if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \
        || defined HAVE_STRUCT_STAT_ST_SPARE1)
        time_format = "%Y-%m-%d %H:%M:%S.%N %z";
    #else
        time_format = "%Y-%m-%d %H:%M:%S %z";
    #endif
    /* See POSIX 1003.1-2001 for this format. */
    time_format = "%a %b %e %T %Y";
}

if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
        || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
        || (ocontext < context && ! explicit_context)))
    context = ocontext;
if (!tabsize)
    tabsize = 8;
if (!width)
    width = 130;
{
    /* Maximize first the half line width, and then the gutter width,
       according to the following constraints:

1. Two half lines plus a gutter must fit in a line.
2. If the half line width is nonzero:
       a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
       b. If tabs are not expanded to spaces,
          a half line plus a gutter is an integral number of tabs,
          so that tabs in the right column line up. */

    intmax_t t = expand_tabs ? 1 : tabsize;
    intmax_t w = width;
    intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
    sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
    sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that
   shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
    horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
{
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
if (!line_format[i])
    line_format[i] = "%ln";
    if (!group_format[OLD])
        group_format[OLD] = group_format[CHANGED] ? group_format[CHANGED] : "%<";
    if (!group_format[NEW])
        group_format[NEW] = group_format[CHANGED] ? group_format[CHANGED] : "%>";
    if (!group_format[UNCHANGED])
        group_format[UNCHANGED] = "%=";
    if (!group_format[CHANGED])
        group_format[CHANGED] = concat (group_format[OLD],
group_format[NEW], "") ;
}
no_diff_means_no_output =
(output_style == OUTPUT_IFDEF ?
(!*group_format[UNCHANGED]
 || (STREQ (group_format[UNCHANGED], "%==")
 && !*line_format[UNCHANGED]))
 : (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
(brief & binary
 & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
 | (ignore_regexp_list.regexp | ignore_white_space)));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
{
  if (to_file)
fatal ("--from-file and --to-file both specified");
  else
  for (; optind < argc; optind++)
  {
    int status = compare_files (NULL, from_file, argv[optind]);
    if (exit_status < status)
      exit_status = status;
  }
  }
else
{
  if (to_file)
  for (; optind < argc; optind++)
  {
    int status = compare_files (NULL, argv[optind], to_file);
    if (exit_status < status)
      exit_status = status;
  }
  else
  {
    if (argc - optind != 2)
    {
      if (argc - optind < 2)
        try_help ("missing operand after "%s", argv[argc - 1]);
      else
        try_help ("extra operand "%s", argv[optind + 2]);
    }
    exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
  }
}
/* Print any messages that were saved up for last. */
print_message_queue();
check_stdout();
exit (exit_status);
return exit_status;
}

/* Append to REGLIST the regexp PATTERN. */
static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);
    if (m != 0)
        error (0, 0, "%s: %s", pattern, m);
    else
    {
        char *regexps = reglist->regexps;
        size_t len = reglist->len;
        bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
        size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
        size_t size = reglist->size;
        if (size <= newlen)
        {
            if (!size)
                size = 1;
            do size *= 2;
            while (size <= newlen);
            reglist->size = size;
            reglist->regexps = regexps = xrealloc (regexps, size);
        }
        if (multiple_regexps)
        {
            regexps[len++] = '\';
            regexps[len++] = '|';
        }
        memcpy (regexps + len, pattern, patlen + 1);
    }
}
/* Ensure that REGLIST represents the disjunction of its regexps. 
   This is done here, rather than earlier, to avoid O(N^2) behavior. */

static void 
summarize_regexp_list (struct regexp_list *reglist)
{
if (reglist->regexps)
{
    /* At least one regexp was specified. Allocate a fastmap for it. */
    reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
    if (reglist->multiple_regexps)
    {
        /* Compile the disjunction of the regexps. 
           (If just one regexp was specified, it is already compiled.) */
        char const *m = re_compile_pattern (reglist->regexps, reglist->len,
                                             reglist->buf);
        if (m)
            error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
    }
}

static void 
try_help (char const *reasonmsgid, char const *operand)
{
if (reasonmsgid)
    error (0, 0, _("%s: %s", reasonmsgid, operand);
error (EXIT_TROUBLE, 0, "Try '%s --help' for more information.",
        program_name);
abort ();
}

static void 
check_stdout (void)
{
if (ferror (stdout))
    fatal ("write failed");
else if (fclose (stdout) != 0)
    pfatal_with_name (_("standard output"));
}

static char const * const option_help_msgid[] = {
  N_("--normal                  output a normal diff (the default)",
  N_("-q, --brief                   report only when files differ"),
  N_("-s, --report-identical-files  report when two files are the same"),
  N_("-c, -C NUM, --context[=NUM]   output NUM (default 3) lines of copied context"),
  N_("-u, -U NUM, --unified[=NUM]   output NUM (default 3) lines of unified context"),
  N_("-e, --ed                    output an ed script"),
}
These format options provide fine-grained control over the output of `diff`, generalizing `-D/--ifdef`.

LTYPE is 'old', 'new', or 'unchanged'. GTYPE is LTYPE or 'changed'.

GFMT (only) may contain:
- %< lines from FILE1
- %> lines from FILE2
- %= lines common to FILE1 and FILE2

%-[|][WIDTH][.[PREC]][(doxX)]LETTER printf-style spec for LETTER

LETTERs are as follows for new group, lower case for old group:
- F first line number
- L last line number
- N number of lines = L-F+1
- E F-1
- M L+1

%(A=B?T:E) if A equals B then T else E

LFMT (only) may contain:
- %L contents of line
- %l contents of line, excluding any trailing newline
- %-[|][WIDTH][.[PREC]][(doxX)]n printf-style spec for input line number

Both GFMT and LFMT may contain:
- %% %
- %c'C' the single character C
- %c'\OOO' the character with octal code OOO
- C the character C (other characters represent themselves)

```
\nN_("-d, --minimal try hard to find a smaller set of changes"),
N_("--horizon-lines=NUM keep NUM lines of the common prefix and suffix"),
N_("--speed-large-files assume large files and many scattered small changes"),
N_("--help display this help and exit"),
N_("-v, --version output version information and exit"),

FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'.

If --from-file or --to-file is given, there are no restrictions on FILE(s).
If a FILE is '-', read standard input.
Exit status is 0 if inputs are the same, 1 if different, 2 if trouble.
```

static void
usage (void)
{
    char const * const *p;

    printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
    printf (_("%s\n\n", _("Compare FILES line by line.")));
fputs ("\nMandatory arguments to long options are mandatory for short options too.\n"), stdout);

for (p = option_help_msgid; *p; p++)
{
    if (!*p)
        putchar ('\n');
    else
    {
        char const *msg = _(*p);
        char const *nl;
        while ((nl = strchr (msg, '\n')))
        {
            int msglen = nl + 1 - msg;
            printf ("  %.*s", msglen, msg);
            msg = nl + 1;
        }

        printf ("  %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
    }
}
emit_bug_reporting_address ();

/* Set VAR to VALUE, reporting an OPTION error if this is a
   conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
    if (*var && !STREQ (*var, value))
    {
        error (0, 0, _("conflicting %s option value '%s'"), option, value);
        try_help (NULL, NULL);
    }
    *var = value;
}

/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
    if (output_style != style)
    {
        if (output_style != OUTPUT_UNSPECIFIED)
            try_help (_("conflicting output style options"), NULL);
        output_style = style;
    }

static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC
    gettime (&STAT_TIMESPEC (st, st_mtim));
#else
    struct timespec t;
    gettime (&t);
    st->st_mtime = t.tv_sec;
    #if defined STAT_TIMESPEC_NS
    STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
    #elif defined HAVE_STRUCT_STAT_ST_SPARE1
    st->st_spare1 = t.tv_nsec / 1000;
    #endif
#endif
}

/* Compare two files (or dirs) with parent comparison PARENT
   and names NAME0 and NAME1.
   (If PARENT is null, then the first name is just NAME0, etc.)
   This is self-contained; it opens the files and closes them.

   Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if
different, EXIT_TROUBLE if there is a problem opening them. */

static int
compare_files (struct comparison const *parent,
               char const *name0,
               char const *name1)
{
    struct comparison cmp;
#define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
    register int f;
    int status = EXIT_SUCCESS;
    bool same_files;
    char *free0;
    char *free1;

    /* If this is directory comparison, perhaps we have a file
       that exists only in one of the directories.
       If so, just print a message to that effect. */

    if (! (name0 && name1)
       || (unidirectional_new_file && name1)
|| new_file))
{
    char const *name = name0 ? name0 : name1;
    char const *dir = parent->file[name0].name;

    /* See POSIX 1003.1-2001 for this format. */
    message ("Only in %s: %s\n", dir, name);

    /* Return EXIT_FAILURE so that diff_dirs will return
     * EXIT_FAILURE ("some files differ"). */
    return EXIT_FAILURE;
}

memset (cmp.file, 0, sizeof cmp.file);
cmp.parent = parent;

/* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */

#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */

if (!name0)
    name0 = name1;
if (!name1)
    name1 = name0;

if (!parent)
{
    free0 = NULL;
    free1 = NULL;
    cmp.file[0].name = name0;
    cmp.file[1].name = name1;
}
else
{
    cmp.file[0].name = free0
    = file_name_concat (parent->file[0].name, name0, NULL);
    cmp.file[1].name = free1
    = file_name_concat (parent->file[1].name, name1, NULL);
}
/ * Stat the files. */

for (f = 0; f < 2; f++)
{
    if (cmp.file[f].desc != NONEXISTENT)
    {
        if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
        {
            cmp.file[f].desc = cmp.file[0].desc;
            cmp.file[f].stat = cmp.file[0].stat;
        }
        else if (STREQ (cmp.file[f].name, "-"))
        {
            cmp.file[f].desc = STDIN_FILENO;
            if (binary && ! isatty (STDIN_FILENO))
                set_binary_mode (STDIN_FILENO, O_BINARY);
            if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
                cmp.file[f].desc = ERRNO_ENCODE (errno);
            else
            {
                if (S_ISREG (cmp.file[f].stat.st_mode))
                {
                    off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
                    if (pos < 0)
                        cmp.file[f].desc = ERRNO_ENCODE (errno);
                    else
                        cmp.file[f].stat.st_size =
                            MAX (0, cmp.file[f].stat.st_size - pos);
                }
            }
        }
    }
    else if ((no_dereference_symlinks
             ? lstat (cmp.file[f].name, &cmp.file[f].stat)
             : stat (cmp.file[f].name, &cmp.file[f].stat))
             != 0)
        cmp.file[f].desc = ERRNO_ENCODE (errno);
    }
}

/* Mark files as nonexistent as needed for -N and -P, if they are
inaccessible empty regular files (the kind of files that ‘patch’
creates to indicate nonexistent backups), or if they are
top-level files that do not exist but their counterparts do
exist. */
for (f = 0; f < 2; f++)
    if (((new_file || (f == 0 &&& unidirectional_new_file))
        && (cmp.file[f].desc == UNOPENED
            ? (S_ISREG (cmp.file[f].stat.st_mode)
                && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
                && cmp.file[f].stat.st_size == 0)
            : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
                || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
                && ! parent
                && (cmp.file[1 - f].desc == UNOPENED
                    || cmp.file[1 - f].desc == STDIN_FILENO))
        cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
    if (cmp.file[f].desc == NONEXISTENT)
        {
            memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
            cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
        }

for (f = 0; f < 2; f++)
    {
        int e = ERRNO_DECODE (cmp.file[f].desc);
        if (0 <= e)
            {
                errno = e;
                perror_with_name (cmp.file[f].name);
                status = EXIT_TROUBLE;
            }
    }

if (status == EXIT_SUCCESS && ! parent &&& DIR_P (0) != DIR_P (1))
    {
        /* If one is a directory, and it was specified in the command line,
         use the file in that dir with the other file's basename. */

        int fnm_arg = DIR_P (0);
        int dir_arg = 1 - fnm_arg;
        char const *fnm = cmp.file[fnm_arg].name;
        char const *dir = cmp.file[dir_arg].name;
        char const *filename = cmp.file[dir_arg].name = free0
            = find_dir_file_pathname (dir, last_component (fnm));

        if (STREQ (fnm, "."))
            fatal ("cannot compare "." to a directory");

        if ((no_dereference_symlinks
            ? lstat (filename, &cmp.file[dir_arg].stat)
            : readlink (filename, &cmp.file[dir_arg].stat)) == -1)
            fatal ("cannot read symbolic link ".name");
    }

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: stat (filename, &cmp.file[dir_arg].stat)
! = 0)
{
    perror_with_name (filename);
    status = EXIT_TROUBLE;
}
}

if (status != EXIT_SUCCESS)
{
    /* One of the files should exist but does not. */
}
else if (cmp.file[0].desc == NONEXISTENT
    && cmp.file[1].desc == NONEXISTENT)
{
    /* Neither file "exists", so there's nothing to compare. */
}
else if ((same_files
    = (cmp.file[0].desc != NONEXISTENT
       && cmp.file[1].desc != NONEXISTENT
       && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
       && same_file_attributes (&cmp.file[0].stat,
                               &cmp.file[1].stat))
    && no_diff_means_no_output)
{
    /* The two named files are actually the same physical file.  
     * We know they are identical without actually reading them. */
}
else if (DIR_P (0) & DIR_P (1))
{
    if (output_style == OUTPUT_IFDEF)
        fatal ("-D option not supported with directories");

    /* If both are directories, compare the files in them. */

    if (parent && !recursive)
    {
        /* But don't compare dir contents one level down
         * unless -r was specified.
         * See POSIX 1003.1-2001 for this format. */
        message ("Common subdirectories: %s and %s
                 ",
             cmp.file[0].name, cmp.file[1].name);
    }
    else
        status = diff_dirs (&cmp, compare_files);
}
else if ((DIR_P (0) | DIR_P (1))
             || (parent
&amp;&amp; !(S_ISREG (cmp.file[0].stat.st_mode)
|| S_ISLNK (cmp.file[0].stat.st_mode))
&amp;&amp; (S_ISREG (cmp.file[1].stat.st_mode)
|| S_ISLNK (cmp.file[1].stat.st_mode))))
{
    if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
{
    /* We have a subdirectory that exists only in one directory. */
}
if ((DIR_P (0) | DIR_P (1))
    &amp;&amp; recursive
    &amp;&amp; (new_file
        || (unidirectional_new_file
             &amp;&amp; cmp.file[0].desc == NONEXISTENT)))
    status = diff_dirs (&amp;cmp, compare_files);
else
{
    char const *dir;

    /* PARENT must be non-NULL here. */
    assert (parent);
    dir = parent-&gt;file[cmp.file[0].desc == NONEXISTENT].name;

    /* See POSIX 1003.1-2001 for this format. */
    message (&quot;Only in %s: %s
        &lt;dir&gt;&lt;name0&gt;\n        status = EXIT_FAILURE;
    }
}
else
{
    /* We have two files that are not to be compared. */

    /* See POSIX 1003.1-2001 for this format. */
    message5 (&quot;File %s is a %s while file %s is a %s\n        file_label[0] ? file_label[0] : cmp.file[0].name,
        file_type (&amp;cmp.file[0].stat),
        file_type (&amp;cmp.file[1].stat));

    /* This is a difference. */
    status = EXIT_FAILURE;
    }
}
else if (S_ISLNK (cmp.file[0].stat.st_mode)
    || S_ISLNK (cmp.file[1].stat.st_mode))
{
    /* We get here only if we use lstat(), not stat(). */

assert (no_dereference_symlinks);

if (S_ISLNK (cmp.file[0].stat.st_mode) && S_ISLNK (cmp.file[1].stat.st_mode))
{
    /* Compare the values of the symbolic links. */
    char *link_value[2] = { NULL, NULL };

    for (f = 0; f < 2; f++)
    {
        link_value[f] = xreadlink (cmp.file[f].name);
        if (link_value[f] == NULL)
        {
            perror_with_name (cmp.file[f].name);
            status = EXIT_TROUBLE;
            break;
        }
    }

    if (status == EXIT_SUCCESS)
    {
        if ( ! STREQ (link_value[0], link_value[1]))
        {
            message("Symbolic links %s and %s differ\n",
                cmp.file[0].name, cmp.file[1].name);
            /* This is a difference. */
            status = EXIT_FAILURE;
        }
    }
    for (f = 0; f < 2; f++)
        free (link_value[f]);
    }
else
{
    /* We have two files that are not to be compared, because 
     * one of them is a symbolic link and the other one is not. */

    message5("File %s is a %s while file %s is a %s\n",
        file_label[0] ? file_label[0] : cmp.file[0].name,
        file_type (&cmp.file[0].stat),
        file_type (&cmp.file[1].stat));

    /* This is a difference. */
    status = EXIT_FAILURE;
}
else if (files_can_be_treated_as_binary
    && &S_ISREG (cmp.file[0].stat.st_mode)
&& S_ISREG (cmp.file[1].stat.st_mode)
&& cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
    message("Files %s and %s differ\n",
            file_label[0] ? file_label[0] : cmp.file[0].name,
    status = EXIT_FAILURE;
}
else
{
    /* Both exist and neither is a directory. */

    /* Open the files and record their descriptors. */

    int oflags = O_RDONLY | (binary ? O_BINARY : 0);

    if (cmp.file[0].desc == UNOPENED)
        if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
        {
            perror_with_name (cmp.file[0].name);
            status = EXIT_TROUBLE;
        }
    if (cmp.file[1].desc == UNOPENED)
    {
        if (same_files)
            cmp.file[1].desc = cmp.file[0].desc;
        else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
        {
            perror_with_name (cmp.file[1].name);
            status = EXIT_TROUBLE;
        }
    }
    /* Compare the files, if no error was found. */

    if (status == EXIT_SUCCESS)
        status = diff_2_files (&cmp);
    /* Close the file descriptors. */

    if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
    {
        perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc
        && close (cmp.file[1].desc) != 0)
perror_with_name (cmp.file[1].name);
status = EXIT_TROUBLE;
}
}

/* Now the comparison has been done, if no error prevented it,
and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
{
    if (report_identical_files && !DIR_P (0))
message ("Files %s and %s are identical\n", file_label[0] ? file_label[0] : cmp.file[0].name, file_label[1] ? file_label[1] : cmp.file[1].name);
}
else
{
    /* Flush stdout so that the user sees differences immediately. 
This can hurt performance, unfortunately. */
    if (fflush (stdout) != 0)
pfatal_with_name (",("standard output")");
}
free (free0);
free (free1);

return status;

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 */

/**
 * Servlet specific extension to {@link SinglePortConfidentialityHandler}
 *
 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
 */

/**
 * Use the HttpServerExchange supplied to check if this request is already 'sufficiently' confidential.
 *
 * Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual
 * SSLSession.
 *
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return true if the request is 'sufficiently' confidential, false otherwise.
 */

protected String noConfidentialPortAvailableStr() {
    return "UT010053: No confidential port is available to redirect the current request."
;}

public final IllegalStateException noConfidentialPortAvailable() {
    final IllegalStateException result = new IllegalStateException(String.format(getLoggingLocale(),

noConfidentialPortAvailable$str());

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* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-jar/io/undertow/servlet/handlers/RedirectDirHandler.java
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