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* /opt/cola/permits/1260753431_1643213190.15/0/jboss-marshalling-2-0-9-final-sources.jar/org/jboss/marshalling/AbstractObjectOutput.java
* /opt/cola/permits/1260753431_1643213190.15/0/jboss-marshalling-2-0-9-final-sources.jar/org/jboss/marshalling/ChainingObjectResolver.java
* /opt/cola/permits/1260753431_1643213190.15/0/jboss-marshalling-2-0-9-final-sources.jar/org/jboss/marshalling/ProviderDescriptor.java
* /opt/cola/permits/1260753431_1643213190.15/0/jboss-marshalling-2-0-9-final-sources.jar/org/jboss/marshalling/MarshallerObjectInput.java
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* /opt/cola/permits/1260753431_1643213190.15/0/jboss-marshalling-2-0-9-final-sources.jar/org/jboss/marshalling/_private/SetAccessibleAction.java
* /opt/cola/permits/1260753431_1643213190.15/0/jboss-marshalling-2-0-9-final-sources.jar/org/jboss/marshalling/JDKSpecific.java
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1.9 shiro 1.7.1

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1.10 wildfly-http-client-common 1.0.20.Final

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* /opt/cola/permits/1260752892_1643213318.06/0/wildfly-http-client-common-1-0-20-final-sources-jar/org/wildfly/httpclient/common/WildflyClientOutputStream.java

1.11 apache-log4j-extras 1.2.17
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* /opt/cola/permits/1155895537_1619081415.62/0/azure-mgmt-compute-12-0-0-1-zip/azure-mgmt-compute-
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Open Source Used In SDWan 20.9.1 174
No license file was found, but licenses were detected in source scan.

**Metadata-Version:** 2.1  
**Name:** azure-mgmt-compute  
**Version:** 12.0.0  
**Summary:** Microsoft Azure Compute 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 Compute 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 [Compute Management](https://docs.microsoft.com/python/api/overview/azure/virtualmachines) 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.
# 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 id
- Model VirtualMachineExtensionUpdate no longer has parameter name
- Model VirtualMachineExtensionUpdate no longer has parameter type
- Model VirtualMachineExtensionUpdate no longer has parameter virtual_machine_extension_update_type
- 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 colocation_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 VirtualMachineScaleSetUpdateManagedDiskParameters 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 OSPProfile 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)
**Bugfixes**

- Revert "images" API version introduced in 4.6.0 from 2019-03-01 to 2018-10-01 for backward compatiblity #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 related 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
**Note**
- azure-mgmt-ns pkg 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 (ultraSSD Enabled 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 VirtualMachineScaleSetVMP rofile has a new parameter additional_cap abilities (ultraSSD Enabled attribute)
- Model VirtualMachine has a new parameter additional_capabilities (ultraSSD Enabled 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

```python
diff_disk_settings
- Added operation VirtualMachinesOperations.list_by_location

**Note**
- azure-mgmt-ns pkg is not installed anymore on Python 3 (PEP420-based namespace package)
```
- 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> 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 operations 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, your 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 'enableAcceleratedNetworking' for virtual machine and virtual
  machine SS. Windows GA, Linux in preview.
- 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  
  (ContainerServiceOchestratorTypes 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
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
1.13 apr 1.6.5

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 *
From network_io/unix/inet_ntop.c, network_io/unix/inet_ntop.c:

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From dso/aix/dso.c:

* Based on libdl (dlfcn.c/dlfcn.h) which is
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

* 
* cvt - IEEE floating point formatting routines.
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1.14 urllib3 1.13.1

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# Contributions to the urllib3 project

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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/@WBRSRIBZDhBFQB6/>  
* 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@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]

1.15 pycurl 7.43.0-3.ph2

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  * /opt/cola/permits/1260753356_1643213173.59/0/wildfly-http-naming-client-1-0-20-final-sources-
1.21 hibernate-search-orm 5.10.7.Final

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  jar/org/reactivestreams/Processor.java

1.24 jmh-generator-annprocess 1.21

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jar/org/wildfly/security/password/impl/DigestPasswordAlgorithmParametersSpiImpl.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/constraintvalidators/hv/URLValidator.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/DecimalMinValidator_forCharSequence.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/org/hibernate/validator/internal/metadata/facets/package-info.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/engine/valueextraction/ValueExtractorHelper.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/xml/config/ValidationConfigStaxBuilder.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/AbstractPastOrPresentEpochBasedValidator.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/spi/resourceloading/ResourceBundleLocator.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/cfg/context/MethodConstraintMappingContextImpl.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/package-info.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/PositiveOrZeroValidatorForNumber.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/Internal/util/DomainNameUtil.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/scripting/ScriptEvaluatorFactory.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/Internal/constraintvalidators/bv/time/past/AbstractPastJavaTimeValidator.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MinValidatorForFloat.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfBoolean.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForYearMonth.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MinValidatorForShort.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/bv/DateTimeValidator.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MinValidatorForLong.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MinValidatorForDouble.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar/org/hibernate/validator/internal/constraintvalidators/bv/DateTimeValidator.java
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jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/AbstractFutureEpochBasedValidator.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/hv/br/CNPJValidator.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-
jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/ParserState.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/package-info.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.
 * </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>
 * ("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>
* <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>
* <p>
* Can be specified on any method or constructor.
* </p>
* *
* @author Gunnar Morling
*/

Found in path(s):
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/org/hibernate/validation-mapping-1.0.xsd
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/org/hibernate/validation-mapping-2.0.xsd
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/maven/org.hibernate.validator/hibernate-validator/pom.xml
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/META-INF/validation-configuration-1.0.xsd
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/META-INF/validation-configuration-1.1.xsd
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/META-INF/validation-configuration-2.0.xsd
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/META-INF/validation-mapping-1.1.xsd
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/META-INF/validation-mapping-2.0.xsd

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* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-
jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.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/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-
jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

1.43 wildfly-mod-cluster-undertow
19.1.0.Final
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1.44 apache-log4j 1.2.16

1.45 log-rotate 3.15.1
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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'
The "Artistic License"

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The End
#

=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) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright \d{4,}/i
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}

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1.57 jackson-jaxrs-base 2.11.3

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1.58 miekg-dns 1.1.26
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1.59 wildfly-security-api 19.1.0.Final

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1.60 go-multierror 1.1.0

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1.62 jboss-invocation 1.5.2.Final
1.62.1 Available under license :
No license file was found, but licenses were detected in source scan.

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1.63 jctools-core 2.1.2

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<artifactId>maven-bundle-plugin</artifactId>
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* /opt/cola/permits/1140962761_1614910158.25/0/jctools-core-2-1-2-sources-2-jar/org/jctools/queues/spec/Ordering.java
* /opt/cola/permits/1140962761_1614910158.25/0/jctools-core-2-1-2-sources-2-jar/org/jctools/queues/maps/NonBlockingIdentityHashMap.java
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1.64 open-ws 1.5.4

1.65 gopkg.in/resty 1.12.0

1.65.1 Available under license:
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1.66 python 2.7.12-1~16.04

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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

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 Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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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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<td>2010</td>
<td>PSF</td>
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100dpi-lutRS08-IL2.bdf 100dpi-lutRS14-IL2.bdf 100dpi-lutRS14.bdf
100dpi-lutRS19-IL2.bdf 75dpi-lutBS12.bdf 75dpi-lutBS12c.bdf
75dpi-lutBS12-IL2.bdf 75dpi-lutBS14.bdf 75dpi-lutBS14c.bdf
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<td>Device drivers</td>
<td>src/mesa/drivers/*</td>
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include/GL/glxext.h
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- 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
- 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
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1.90 jinja2 2.11.3

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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

```bash
pip install Jinja2
```
$ 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>
    {% endblock %}

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
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)

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]"]},
)

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* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/setup.py

1.91 thrift 0.10.0
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compiler/cpp/src/generate/t_cpp_generator.cc
compiler/cpp/src/generate/t_csharp_generator.cc
compiler/cpp/src/generate/t_erl_generator.cc
compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TLlist.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
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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.

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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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(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.

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.

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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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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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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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* 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
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Lasse Collin and others, XZ for Java (http://tukaani.org/xxz/java.html)

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https://github.com/rjohnsondev/java-libpst

JMatIO is a JAVA library to read/write/manipulate with Matlab binary MAT-files.
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The initial code for shuffling an array (originally in class
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a method in class "org.apache.commons.math3.util.MathArrays") was
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
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NekoHTML is written using the Xerces Native Interface (XNI) that is the foundation of the Xerces2 implementation. This enables you to use the NekoHTML parser with existing XNI tools without modification or rewriting code.

jackson-jq
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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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VERSION: 2.1 PoliMorf
BUILD: 2016-02-13 19:37:50+01:00
GIT: 6e63b53

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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.

[IMPORTANT]
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]

```xml
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
```

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 */

package org.apache.solr.security;
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 allowed keys for well-known permissions
            disAllowed.remove(NAME); // allowed keys for well-known permissions
            disAllowed.remove("collection");
            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) {
                    for (String s : val) {
                        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)) {
            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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May 22, 2015

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1.102 concurrentlinkedhashmap-lru 1.4.1

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

Eclipse Collections API
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1.113 e2fsprogs 1.45.7

1.113.1 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): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(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:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"

---
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \n@-$(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 @@ 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:

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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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# PLY (Python Lex-Yacc) Version 3.11


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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:

    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.

import ply.lex as lex

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]+'
def t_value(t):
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \	"

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'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')  # use input() on Python 3
        except EOFError:
            break
        yacc.parse(s)

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
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email to dave@dabeaz.com.

-- Dave

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  0f398b7/ply/lex.py
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-
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1.115 opensaml-security-api 3.3.1

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* /opt/ws_local/PERMITS_SQL/1021461995_1591378228.4/0/opensaml-security-api-3-3-1-sources-jar/org/opensaml/security/x509/X509IssuerSerialCriterion.java
* /opt/ws_local/PERMITS_SQL/1021461995_1591378228.4/0/opensaml-security-api-3-3-1-sources-jar/org/opensaml/security/x509/X509DigestCriterion.java
* /opt/ws_local/PERMITS_SQL/1021461995_1591378228.4/0/opensaml-security-api-3-3-1-sources-jar/org/opensaml/security/credential/CredentialContext.java
* /opt/ws_local/PERMITS_SQL/1021461995_1591378228.4/0/opensaml-security-api-3-3-1-sources-jar/org/opensaml/security/messaging/ClientTLSSecurityParametersContext.java
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* /opt/ws_local/PERMITS_SQL/1021461995_1591378228.4/0/opensaml-security-api-3-3-1-sources-jar/org/opensaml/security/x509/IssuerSerialCriterion.java
* /opt/ws_local/PERMITS_SQL/1021461995_1591378228.4/0/opensaml-security-api-3-3-1-sources-jar/org/opensaml/security/criteria/PeerEntityIDCriterion.java
1.116 netbase 5.3

1.116.1 Available under license:

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It is currently maintained by Marco d'Itri <md@linux.it>.

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1.117 wildfly-weld-bean-validation 19.1.0.Final

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1.119 grep 3.3 1

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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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Open Source Used In SDWan 20.9.1 1305
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.

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.

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
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use both them and the Library together in an executable that you
distribute.

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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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based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

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Preamble

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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.

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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:

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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.

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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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.

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
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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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# Contributions to the urllib3 project

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  * 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

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* Support for TLS SNI
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* 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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* 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```.

* 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.

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

* Jess Shapiro <jess@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.
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1.126 neo4j-token-api 4.1.7

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1.130 jbossws-common 3.3.0.Final

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1.131 xmlsec-java 2.0.8

1.131.1 Available under license: Apache XML Security for Java

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  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

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

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* javax.annotation:javax.annotation-api
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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

The following artifacts are ASL2 licensed.

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

------
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

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1.134 wildfly-request-controller 11.1.1.Final

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1.137 tar 1.28 2.1ubuntu0.1

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* /opt/cola/permits/1111302167_1606896613.8/0/opensaml-saml-api-3-3-1-sources-1-jar/org/opensaml/saml/saml2/metadata/SPSSODescriptor.java

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value = SecurityActions.getSystemProperty("ironjacamar.tracer.confidential"); confidential = Boolean.valueOf(value);
// Assume confidential confidential = true; return recordCallstack && !confidential;
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callstack != null ? toString(callstack) : "}

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1.147 lsol 4.91

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1.148 jmespath 0.10.0-3.ph4

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1.149 chardet 4.0.0

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1.155 json-c 0.11-4ubuntu2

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1.156 resolvconf 1.78ubuntu7

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/**
 * Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: &lt;a href="http://iharder.net/base64">http://iharder.net/base64</a&gt;.&lt;/p&gt;
 * *
 * <p>Example:</p>
 *
 * <code>String encoded = Base64.encode( myByteArray );</code>
 * <br>
 * <code>byte[] myByteArray = Base64.decode( encoded );</code>
 *
 * 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>
 * *
 * Note, according to &lt;a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a&gt;,
* 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>
*
* &lt;p&gt;The constants defined in Base64 can be OR-ed together to combine options, so you
might make a call like this:&lt;/p&gt;
*
* &lt;code&gt;String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );&lt;/code&gt;
* &lt;p&gt;to compress the data before encoding it and then making the output have newline characters.&lt;/p&gt;
* &lt;p&gt;Also...&lt;/p&gt;
* &lt;code&gt;String encoded = Base64.encodeBytes( crazyString.getBytes() );&lt;/code&gt;
*
* &lt;p&gt;Change Log:&lt;/p&gt;
* &lt;/p&gt;
* &lt;ul&gt;
* &lt;li&gt;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.&lt;/li&gt;
* &lt;li&gt;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.&lt;/li&gt;
* &lt;li&gt;v2.3.5 - Fixed bug in [link #encodeFromFile] where estimated buffer size
was wrong for files of size 31, 34, and 37 bytes.&lt;/li&gt;
* &lt;li&gt;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.&lt;/li&gt;
* &lt;li&gt;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.&lt;/li&gt;
* &lt;li&gt;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).&lt;/li&gt;
* &lt;li&gt;v2.3.1 - Added [link #encodeBytesToBytes(byte[], int, int)] and some
similar helper methods to be more efficient with memory by not returning a
String but just a byte array.&lt;/li&gt;
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 RFC3548.</li>
  <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.IOException 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>
  <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>

v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~<lt; 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:

<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. http://www.faqs.org/rfcs/rfc3548.html</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/rfc-1940.html</li>
</ol>

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.
* <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><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 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.</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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*/

Found in path(s):
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-
  jar/com/twitter/chill/java/ResourcePool.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/SerDeState.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/IterableRegistrarSerializer.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/SqlTimeSerializer.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/config/ReflectingInstantiator.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/SimpleDateFormatSerializer.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/PackageRegistrar.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/KryoInstantiator.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/ReflectingSerializer.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/ReflectingRegistrarSerializer.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/ByteOrderSerializer.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/java/ReflectingRegistrar.java
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* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-
  jar/com/twitter/chill/java/ClosureSerializer.java
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Found in path(s):
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-
  jar/com/twitter/chill/java/UnmodifiableListSerializer.java
* /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
1.162 resteasy-jaxb-provider 3.11.2.Final

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* /opt/cola/permits/1000099241_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/AutoFinishScopeManager.java
1.182 jackson 2.6.0
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* /opt/cola/permits/1099676761_1602542728.14/0/jackson-2-6-0-sources-jar/com/mastfrog/jackson/DurationSerializationMode.java
* /opt/cola/permits/1099676761_1602542728.14/0/jackson-2-6-0-sources-jar/com/mastfrog/jackson/TimeSerializationMode.java
* /opt/cola/permits/1099676761_1602542728.14/0/jackson-2-6-0-sources-jar/com/mastfrog/jackson/LocaleJacksonConfigurer.java
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1.183 python 3.5.1-3

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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 Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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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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py3compile, py3clean and debpython module:

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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

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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

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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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* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml2/metadata/impl/IDPSSODescriptorImpl.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml2/core/impl/RequesterIDUnmarshaller.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
Open Source Used In SDWan 20.9.1  1787
Open Source Used In SDWan 20.9.1  1812
jar/org/opensaml/saml/saml2/core/impl/ManageNameIDRequestUnmarshaller.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml1/core/impl/StatusCodeImpl.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml2/core/impl/AuthnContextDeclBuilder.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml2/ecp/impl/SubjectConfirmationBuilder.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml2/core/impl/ResponseUnmarshaller.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml2/metadata/impl/SingleLogoutServiceMarshaller.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml2/core/impl/GetCompleteImpl.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml2/metadata/impl/AuthnQueryServiceUnmarshaller.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml2/metadata/impl/AssertionIDRequestServiceImpl.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/common/binding/security/impl/BaseSAMLSimpleSignatureSecurityHandler.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml2/ecp/impl/RequestImpl.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml1/core/impl/SubjectLocalityBuilder.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml2/ecp/impl/SubjectConfirmationBuilder.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml2/metadata/impl/AdditionalGroupsBuilder.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml2/metadata/impl/NameIDMappingServiceBuilder.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml1/core/impl/AudienceMarshaller.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml1/core/impl/SubjectLocalityBuilder.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
jar/org/opensaml/saml/saml1/core/impl/SubjectLocalityBuilder.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
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* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-
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jar/org/opensaml/saml/saml1/core/impl/ConditionsMarshaller.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/AuthorizationDecisionStatementMarshaller.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-jar/org/opensaml/saml/saml2/ecp/impl/ResponseImpl.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-jar/org/opensaml/saml/saml2/core/impl/EvidenceBuilder.java
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* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-jar/org/opensaml/saml/common/profile/impl/AddAudienceRestrictionToAssertions.java
* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/AttributeDesignatorBuilder.java

1.187 jboss-dmr 1.5.0.Final

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1.188 golang-snappy 0.0.1

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1.189 jackson-databind 2.10.5.1

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1.190 spew 1.1.1
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* /opt/ws_local/PERMITS_SQL/1094806832_1601319866.7/0/undertow-server-servlet-1-7-1-final-sources-jar/org/wildfly/elytron/web/undertow/server/servlet/CleanUpTask.java

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1.220 python3-asn1crypto 1.3.0
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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.)

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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.
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.

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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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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".)
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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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This option is useful when you wish to copy part of the code of
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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.

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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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For an executable, the required form of the "work that uses the
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1.225 apk-tools 2.10.5-r2

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1.235 spring-tx 5.1.17.RELEASE

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* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscUnboundedXaddChunk.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/SpscAtomicArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SupportsIterator.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/SpscGrowableAtomicArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
1.237 zlib 1.2.8.dfsg-2ubuntu4.1

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1.238 cxf-tools-java2ws 3.3.6

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Brics Automaton (under core/src/java/org/apache/lucene/util/automaton) is
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The levenshtein automata tables (under core/src/java/org/apache/lucene/util/automaton) were automatically generated with the moman/finenight FSA library, created by Jean-Philippe Barrette-LaPierre. This library is available under an MIT license, see http://sites.google.com/site/rrettesite/moman and http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
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The Google Code Prettify is Apache License 2.0.
See http://code.google.com/p/google-code-prettify/

JUnit (junit-4.10) is licensed under the Common Public License v. 1.0
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This product includes code (JaspellTernarySearchTrie) from Java Spelling Checkin
g Package (jaspell): http://jaspell.sourceforge.net/
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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
http://snowball.tartarus.org/

The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
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The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
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

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/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
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

The Stempel analyzer (stempel) includes BSD-licensed software developed
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and Edmond Nolan.

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.

WordBreakTestUnicode_*_.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

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Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (http://sgjp.pl/morfeusz/)

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===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from mecab-ipadic-2.7.0-20070801 which can be obtained from http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz or http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

===========================================================================
mecab-ipadic-2.7.0-20070801 Notice
===========================================================================

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1.240 govmomi 0.18.0
1.240.1 Available under license:

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*/

cpackage 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
}

Open Source Used In SDWan 20.9.1  2174
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
}

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}))
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)

    cmd.featureFlag = f.String("feature")
    cmd.featureFlag.SetDefault("")

    cmd.traceFlag = f.BoolP("trace")
    cmd.traceFlag.SetDefault(false)

    cmd.versionFlag = f.BoolP("version")
    cmd.versionFlag.SetDefault(false)

    cmd.traceFlag = f.BoolP("trace")
    cmd.traceFlag.SetDefault(false)

    cmd.versionFlag = f.BoolP("version")
    cmd.versionFlag.SetDefault(false)

    cmd.featureFlag = f.String("feature")
    cmd.featureFlag.SetDefault("")

    cmd.traceFlag = f.BoolP("trace")
    cmd.traceFlag.SetDefault(false)

    cmd.versionFlag = f.BoolP("version")
    cmd.versionFlag.SetDefault(false)

    cmd.featureFlag = f.String("feature")
    cmd.featureFlag.SetDefault("")

    cmd.traceFlag = f.BoolP("trace")
    cmd.traceFlag.SetDefault(false)

    cmd.versionFlag = f.BoolP("version")
    cmd.versionFlag.SetDefault(false)

    cmd.featureFlag = f.String("feature")
    cmd.featureFlag.SetDefault("")

    cmd.traceFlag = f.BoolP("trace")
    cmd.traceFlag.SetDefault(false)

    cmd.versionFlag = f.BoolP("version")
    cmd.versionFlag.SetDefault(false)

    cmd.featureFlag = f.String("feature")
    cmd.featureFlag.SetDefault("")

    cmd.traceFlag = f.BoolP("trace")
    cmd.traceFlag.SetDefault(false)

    cmd.versionFlag = f.BoolP("version")
    cmd.versionFlag.SetDefault(false)

    cmd.featureFlag = f.String("feature")
    cmd.featureFlag.SetDefault("")

    cmd.traceFlag = f.BoolP("trace")
    cmd.traceFlag.SetDefault(false)

    cmd.versionFlag = f.BoolP("version")
    cmd.versionFlag.SetDefault(false)

    cmd.featureFlag = f.String("feature")
    cmd.featureFlag.SetDefault("")

    cmd.traceFlag = f.BoolP("trace")
    cmd.traceFlag.SetDefault(false)

    cmd.versionFlag = f.BoolP("version")
    cmd.versionFlag.SetDefault(false)

    cmd.featureFlag = f.String("feature")
    cmd.featureFlag.SetDefault("")

    cmd.traceFlag = f.BoolP("trace")
    cmd.traceFlag.SetDefault(false)

    cmd.versionFlag = f.BoolP("version")
    cmd.versionFlag.SetDefault(false)

    cmd.featureFlag = f.String("feature")
    cmd.featureFlag.SetDefault("")

    cmd.traceFlag = f.BoolP("trace")
    cmd.traceFlag.SetDefault(false)

    cmd.versionFlag = f.BoolP("version")
    cmd.versionFlag.SetDefault(false)

    cmd.featureFlag = f.String("feature")
    cmd.featureFlag.SetDefault("")

    cmd.traceFlag = f.BoolP("trace")
    cmd.traceFlag.SetDefault(false)

    cmd.versionFlag = f.BoolP("version")
    cmd.versionFlag.SetDefault(false)

    cmd.featureFlag = f.String("feature")
    cmd.featureFlag.SetDefault("")

    cmd.traceFlag = f.BoolP("trace")
    cmd.traceFlag.SetDefault(false)

    cmd.versionFlag = f.BoolP("version")
    cmd.versionFlag.SetDefault(false)

    cmd.featureFlag = f.String("feature")
    cmd.featureFlag.SetDefault("")

    cmd.traceFlag = f.BoolP("trace")
    cmd.traceFlag.SetDefault(false)

    cmd.versionFlag = f.BoolP("version")
    cmd.versionFlag.SetDefault(false)

    cmd.featureFlag = f.String("feature")
    cmd.featureFlag.SetDefault(}
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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*/

package license
import {
    "context"
    "flag"
    "fmt"
    "github.com/vmware/govmomi/govc"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
}

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
    }
    return nil
}
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)
    }
}
func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
    m := ESX()

    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()

    la, err := am.QueryAssigned(ctx, "enoent")
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 0 {
        t.Errorf("unexpected license")
    }

    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")
        }
    }
}


defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
_, 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()

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)
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) eqaul 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) eqaul 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)

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "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",
    },
    
},
    
}
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        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{},
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}
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

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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))
}

# People who can (and typically have) contributed to this repository.
#
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#

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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 mapToKeyValues(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:     mapToKeyValueSlice(labels),
    }
    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}
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)
    // Parse feature string into licenseFeature
    return lf
}
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/gove/cli"
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

import (  
    "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.OutputFlag,...
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
    }
    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")
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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 ".[0] | select(.LicenseKey == \"$1\")"
}
get_property() {
    jq -r ".Properties[] | select(.Key == "$1") | .Value"
}

@test "license.add" {
  esx_env

  verify_evaluation

  run govc license.add -json 00000-00000-00000-00000-00001 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" "$(get_key 00000-00000-00000-00000-00001 <<<${output} | get_property diagnostic)"
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00002 <<<${output} | get_property diagnostic)"
}

@test "license.remove" {
  esx_env

  verify_evaluation

  run govc license.remove -json 00000-00000-00000-00000-00001
  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" "$(get_key 00000-00000-00000-00000-00000 <<<${output} jq -r ".Name")"
  }

  @test "license.decode" {
    esx_env

    verify_evaluation

    key=00000-00000-00000-00000-00000
    assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
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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

1.241 go-sockaddr 1.0.2

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1.242 shadow 4.5-1.1
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* /opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources.jar/org/antlr/v4/runtime/Recognizer.java
* /opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources-
* /opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources.jar/antlr/v4/runtime/IntStream.java
* /opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources.jar/antlr/v4/runtime/atn/StarLoopEntryState.java
* /opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources.jar/antlr/v4/runtime/atn/ATNState.java
* /opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources.jar/antlr/v4/runtime/atn/LL1Analyzer.java
* /opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources.jar/antlr/v4/runtime/atn/LexerActionType.java
* /opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources.jar/antlr/v4/runtime/atn/ActionTransition.java
* /opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources.jar/antlr/v4/runtime/RuleContextWithAltNum.java
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* /opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources.jar/antlr/v4/runtime/tree/pattern/TagChunk.java
* /opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources.jar/antlr/v4/runtime/tree/ProxyErrorListener.java
* /opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources.jar/antlr/v4/runtime/ProxyErrorListener.java
* /opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources.jar/antlr/v4/runtime/tree/XPathWildcardAnywhereElement.java
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*/opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/TokenStream.java
*/opt/cola/permits/1258508567_1643078637.93/0/antlr4-runtime-4-7-2-sources-jar/org/antlr/v4/runtime/atan/LexerChannelAction.java

1.250 binutils 2.33.50

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(This file is under construction.)-*- text -*-

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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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1.255 jackson-datatype-jsr310 2.10.1

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   Version 2, December 2004

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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 ${output} DRS is recommended, but is disabled
Should Contain ${output} Memory Limit
Should Contain ${output} Memory Reservation
Should Contain ${output} Memory Shares
Should Contain ${output} CPU Limit
Should Contain ${output} CPU Reservation
Should Contain ${output} 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\t", v.Used)
fmt.Fprintf(tw, "\%d\t", 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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https://github.com/golang/protobuf

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*/
package license

import (
    "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 {
    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
    }

    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	", v.EntityId)
        fmt.Fprintf(tw, "%s	", v.Scope)
        fmt.Fprintf(tw, "%s	", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s	", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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package simulator

import (  
"github.com/vmware/govmomi/object"
"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{
        Self: ref,
        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 {
    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 {
    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
}

// 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

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: mapToKeyValueSlice(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, ":")

    
    return &am, nil
}

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    f := strings.Split(feature, ":")

    
    return &am, nil
}
If.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
}
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
    }

    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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>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51ad6242b5cc4c1b8f8e730a09af4878f2e2d
>>> api_compute_v1-dfa61ae24628a06502b9e2805d983b57e89399b5
>>> api_gensupport-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_googlarge-api-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> armon_go-metrics-f303b03b91d770a1196977f1d3b55a4a002bbc
>>> armon_go-radix-4239b77079c7b5d12437b4736304ce8ddd60f0f2
>>> asaskevich_govalidator-9699ab6b38bee2e02d3fe8999c6f66765395c96
>>> azure_go-ansiterm-70b2c90b260171e829f1ebd7c1f7600c11858dbe
>>> boldb_bolt-b3f14290f82e0a6f88575a12c77f4f85a59aef9
>>> cenkalti_backoff-b02f2b2bce11d7ea66b9f282ef1771b0f2e2f65ef3
>>> client9_misspell-9af1f2456ac9e89b4cebe9d005b6e7ada0d357f
>>> codegangsta/inject-33e0a1cbe7c019cc3f9be049a8262a6403d30504
>>> codegangsta_cli-master
>>> cpuguy83_go-md2man_md2man-a65d2d2e4d5f7c74868dfaf9b202a3c8be315aaa
>>> d2g_dhcp4-f0e42d9f0231dce362e250b2ed9f08412584bca
>>> deckarep_golang-set-1f04f4f8d3fbeb9325822993ce7c1538906f7554
>>> dustin_go-humanize-259d2a102b871d1f730e3c9d881a649261a1e486
>>> gonnasium_logrus-airbrake-hook_v2-31e6f4d4b5a98d8elee7673d24bc54c7c31810dd
>>> gizak_termui-798fff9ebbe0473ef1f8e6069ca4a2c6aa676b
>>> go-check_check-20d25e2804050c1cd24a7eea1e7a647d0e7e4c
>>> go-martini/martini-21f4691a0adb2665cf3f134b146d20028f5071
>>> go-nfs-client-42fca177a36031d648551c751de1dafa5f55dd9f
>>> godbus_dbus-2304e2b3db2d81c53aa0073f76659d4849ece51
>>> gogo_protobuf_gogoproto-6a92c871a85f3333cf016b2cd9f37576208dbb2b7
>>> gogo_protobuf_proto-6a92c871a85f3333cf016b2cd9f37576208dbb2b7
>>> gogo_protobuf_protoc-gen-gogo_descriptor-6a92c871a85f3333cf016b2cd9f37576208dbb2b7
>>> gogo_protobuf_sortkeys-6a92c871a85f3333cf016b2cd9f37576208dbb2b7
>>> gogo_protobuf_types-6a92c871a85f3333cf016b2cd9f37576208dbb2b7
>>> google_go-github_github-7a51ff928f52a196df531dae88a849835e54ff
>>> google_go-querystring-query-53eece11613580d037921a7fd5138cf32d7a8
>>> google_go-uuid-34f4b542b2abcf1f11dccc939025b60c109b00ed8
>>> googleapis_gax-go-da60d194a00e19ce00d9011a13931c3f66887c7
>>> gorilla_context-1c83b3eab45b6d76702666b746c20815fb2872d
>>> gorilla_mux-acf3be1b335c8ce30b2e8d51300984666f0ceeaf
>>> gorilla_securecookie-fa5329f913702981df43dcb2a3808ace429c810b5
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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875f6b71b3ddc66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26ca9e3d239c2fcb3432a2

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>>> photon-release-2.0-2.ph2

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>>> curl-7.59.0-3.ph2
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>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
>>> libffi-3.2.1-5.ph2
>>> liboserv-0.6.26-3.ph2
>>> libssh2-1.8.0-1.ph2
>>> libtirpc-1.0.1-7.ph2
>>> linux-pam-1.3.0-1.ph2
>>> lssof-4.89-2.ph2
>>> ncurses-6.0-14.ph2
>>> openssl-1.0.2p-1.ph2
>>> openssl-1.0.2p-1.ph2
>>> pcre-8.41-1.ph2
>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.22.0-3.ph2
>>> sudo-1.8.20p2-5.ph2
>>> vim-8.0.0533-5.ph2
>>> xz-5.2.3-2.ph2
>>> zlib-1.2.11-1.ph2

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>>> coreutils-8.27-3.ph2
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>>> glibc-2.26-13.ph2
>>> hawkey-2017.1-6.ph2
>>> kmod-24-3.ph2
>>> libgCRYPT-1.8.1-2.ph2
>>> libgpg-error-1.27-1.ph2
>>> systemd-233-16.ph2

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>>> nspr-4.15-1.ph2
>>> nss-3.31.1-1.ph2

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>>> docker_libnetwork-fd27f22aa35e3d57f88688f919d05b744f431fd

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>>> gizak_termui-798ff9cbbe4073ef1f88e6069ca4a2c6aa6676b

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Go-nfs-client version 0.1

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>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7.tar
protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7/vanity/test/proto3.proto

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>>> goji/param-d7f49fd7d1ed53fd562e737a8b5bbcc7e3d925e2

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>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c

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tomb - support for clean goroutine termination in Go.

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>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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>>> x_crypto_poly1305-728b753d0135da6801d45a38e6f43ff55779c5c2

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+build appengine

Package short implements a simple URL shortener, serving an administrative interface at /s and shortened urls from /s/key.
It is designed to run only on the instance of godoc that serves golang.org.
package short

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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
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
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
slave/kpropd_rpc.c
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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>
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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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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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Written by Ian Lance Taylor, Cygnus Support

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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:

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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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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 linux/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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2.32\login-utils\setpwnam.c
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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2.32\lib\parse-date.c

Bison implementation for Yacc-like parsers in C


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>>> bash-4.4.12-3.ph2

tc -- 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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/ Bison implementation for Yacc-like parsers in C

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(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.

>>> elfutils-0.169-3.ph2

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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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/ 

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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
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with and without prediction resistance

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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.

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Version 3, 29 June 2007

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Version 1.1 - 26 February 2007
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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)

    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)
)

cfunc (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
}

cfunc (cmd *decode) Usage() string {
    return "KEY..."
}

cfunc (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

tvar 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)
    }

treturn cmd.WriteResult(licenseOutput(result))
}

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Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

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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](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.Sprint(e),
                Backtrace: stack,
            },
        },
        Context: map[string]interface{}{
            "notifier": map[string]interface{}{
                "name": "gobrake",
                "version": "2.0.3",
            },
        },
    }
    return notice
}
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,omitempty"`
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) (licenses []*License, resp *Response, err 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
}

// 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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>>> aws_aws-sdk-go_aws-master
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Open Source Used In SDWan 20.9.1 3052
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>>> zenazn/goji-c05078ca81941f8e801bb3a3dce066b687b9dc893
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>>> d2g_dhcp4client-master
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>>> hashicorp_memberlist-cef12ad58224d55cf26caa9e3d239e2fcb3432a2

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>>> photon-release-2.0-2.ph2

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>>> curl-7.59.0-4.ph2
>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
>>> libffi-3.2.1-5.ph2
>>> libgpg-error-1.31-1.ph2
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>>> libnss-md5-3.26-3.ph2
>>> libnss-pkcs11-3.26-3.ph2
>>> libpam-1.4.0-1.ph2
>>> libpython-2.7.16-1.ph2
>>> libpython3.6-3.6.10-1.ph2
>>> libyaml-0.2.1-5.ph2
>>> libxml2-2.9.1-9.ph2
>>> libxslt-2.8.0-1.ph2
>>> openssl-1.0.2q-1.ph2
>>> pcre-8.39-1.ph2
>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.2.6-3.ph2
>>> sudo-1.8.20p2-5.ph2
>>> vim-8.0.0533-6.ph2
>>> xz-5.2.3-2.ph2
>>> zlib-1.2.11-1.ph2

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>>> e2fsprogs-1.43.4-2.ph2
>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
>>> iptables-1.6.1-4.ph2
>>> linux-esx-4.9.154-1.ph2
>>> logrotate-3.11.0-3.ph2
>>> mingetty-1.08-2.ph2
>>> net-tools-1.60-11.ph2
>>> procps-ng-3.3.15-2.ph2
>>> rpm-4.13.0.2-1.ph2
>>> tdnf-1.2.3-6.ph2
>>> util-linux-2.32-1.ph2

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>>> bash-4.4.12-3.ph2
>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
>>> grep-3.0-4.ph2
>>> gzip-1.8-1.ph2
>>> haveged-1.9.1-4.ph2
>>> readline-7.0-2.ph2

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>>> glibc-2.26-13.ph2
>>> hawkey-2017.1-6.ph2
>>> kmod-24-3.ph2
>>> libgcrypt-1.8.1-2.ph2
>>> libgpg-error-1.27-1.ph2
>>> systemd-233-18.ph2

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>>> go-openapi_jsonreference-36d33bfe519efae5632669801b180bf1a245da3b

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Go support for leveled logs, analogous to https://code.google.com/p/glog

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>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8dd6f0f2

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>>> cenkalti_backoff-b02f2bbce11d7ea6b97f282ef1771b0fe2f65ef3

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>>> client9_misspell-9a1fc2456ac9e8c9b4cbe9d005b6e7adac0d357f

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Go-nfs-client version 0.1

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>>> mitchellh_mapstructure-5a0325d7faaac12dda6e7fb8bd222ec1b69875e

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>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c

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>>> naoina_denco-9af2ba0e24214bac003821f4a501b131b2e04c75

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>>> pkg_profile-8a808a6967b79da66deacfe508b26d398a69518f

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>>> racksec_srslog-a974ba6f7fb527d2ddc73ee9e05d3e2ccc0af0dc

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>>> ryanuber_go-glob-256dc444b735e061061cf46c809487313d5b0065

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>>> smartystreets_assertions_internal_reqtrace-287b4346dc4e71a038c346375a9d572453bc469b

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tomb - support for clean goroutine termination in Go.

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>>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16c1872fbbb

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>>> urfave/negroni-ccc4a14984828dcb944e6f17fa4a967b18624f2b

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It was heavily inspired by the go blowfish package.

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```bash
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>>> x_net_context-a6577fac2d73be281a500b310739095313165611

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+build appengine

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Julian Seward, jseward@bzip.org
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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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Bison implementation for Yacc-like parsers in C


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total 25436
2000-09-12 08:57:43 2130486 modules/pam_access/pam_access.c

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total 9111
2000-09-12 10:40:16 2345678 modules/pam_issue/pam_issue.c

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2000-09-12 11:01:34 2027876 modules/pam_loginuid/pam_loginuid.c

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Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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-- vile: txtmode file-encoding=utf-8

>>> openssh-7.5p1-11.ph2

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@version 3.0 (December 2000)

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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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cvtnum routine taken from xfsprogs,
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e2fsprogs-1.43.4.tar.gz\e2fsprogs-1.43.4.tar\e2fsprogs-1.43.4\config\minstalldirs

minstalldirs --- make directory hierarchy
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>>> linux-esx-4.9.154-1.ph2

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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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arch\m68k\math-emu\fp_log.c
```

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arch\microblaze\lib\memcpy.c
```

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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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mkinstalldirs --- make directory hierarchy
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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
Copyright (C) 1998, 1999 Theodore Ts'o.

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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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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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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

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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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/ 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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   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:

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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.

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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.

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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".)

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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:

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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.

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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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
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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
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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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
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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
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============================

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// 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"
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

import (  
    "context"  
    "flag"  
    "fmt"
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. //

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"
)
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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* /opt/ws_local/PERMITS_SQL/1094803158_1601321616.70/undertow-server-1-7-1-final-sources-jar/
1.262 jboss-seam-int-jbossas 7.0.0.GA

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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/SimpleUserEventChannelHandler.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/socket/nio/NioChannelOption.java
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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/bootstrap/Bootstrap.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelPipeline.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
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  jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/package-info.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/pool/ChannelHealthChecker.java
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  jar/io/netty/channel/pool/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/pool/DefaultMaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/pool/FixedChannelPool.java
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  jar/io/netty/channel/pool/ChannelPoolHandler.java
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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/DefaultChannelId.java
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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
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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>
*
* <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:
* <pre>
* public interface Message {
*     // your methods here
* }
* 
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]&lt;Message&gt; {
  
*
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:

// 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());
    }
}

Using AttributeKeys

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 AttributeKeys which is provided by
ChannelHandlerContext:

public interface Message {
    // your methods here
}

@Sharable
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<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);
* <b>attr.set(true)</b>;
* } else (message instanceof GetDataMessage) {
* if (<b>Boolean.TRUE.equals(attr.get())</b>) {
* 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:
* 
* 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>);
* }
* }
* </pre>
* 
* <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/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/internal/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/PendingWriteQueue.java

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* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/NioSocketStreamConnection.java
* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/NioTcpServerHandle.java
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* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/NioSocketConduit.java
* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/NioUdpChannelHandle.java
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* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/NioPipeSinkConduit.java
* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/NioHandle.java

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#
#
# This module defines the NIO XNIO provider
org.xnio.nio.NioXnioProvider

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* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/SelectorUtils.java
* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/OsgiActivator.java
* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/NioXnioProvider.java
* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/NioXnioWorker.java
* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/NioUdpChannel.java
* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/OsgiActivator.java
* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/NioXnioWorker.java
* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/WorkerThread.java
* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/AbstractNioChannel.java
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* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/QueuedNioTcpServerHandle.java
* /opt/cola/permits/1260752911_1643213216.53/0/xnio-nio-3-7-7-final-sources-jar/org/xnio/nio/ChannelClosed.java

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1.267 lz4-java 1.6.0

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That's all there is to it!

1.274 jackson 2.9.8
# 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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## 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

We would not be here without folks that contributed patches, pull requests, issues and their time to pylint. We're incredibly grateful to all of these contributors:

* Daniel Balparda (Google): GPyLint maintainer (Google's pylint variant), various patches

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

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* 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 Wirtel: 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 Fryssinger: 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 Huurre, 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 (naslundx): 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

* Clment Pit-Claudel : contributor

* Goudcode: contributor

* Paul Renvoise : contributor

* Bluesheeptoken: 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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1.278 go-autorest-logging 0.1.0

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1.284 wildfly-server 11.1.1.Final

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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.

* **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
`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. `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 `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 `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

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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.
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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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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3. [3]Bernd Altmeier <altmeier@atls.org> hopf Elektronik serial line and PCI-bus devices
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29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
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46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <nsrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
    makeover, various other bits (see the ChangeLog)
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<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
<xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html"/>
<xsl:param name="product"/>
<xsl:param name="version"/>
<xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'"/>
<xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'"/>
<xsl:template match="/"
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;charset=utf-8"/>
<link rel="stylesheet" type="text/css" href="licenses.css"/>
</head>
<body>
<p>The following material has been provided for informational purposes only, and should not be relied upon or construed as a legal opinion or legal advice.</p>
<!-- Read matching templates -->
<table>
<tr>
<th>Package</th>
<th>Package Artifact</th>
<th>Package Version</th>
<th>Remote Licenses</th>
<th>Local Licenses</th>
</tr>
<xsl:for-each select="licenseSummary/dependencies/dependency">
<xsl:sort select="concat(groupId, '.', artifactId)"/>
<tr>
</xsl:for-each>
</table>
<table border="1">
  <tr>
    <td>groupId, packageName</td>
    <td>artifactId</td>
    <td>version</td>
    <td></td>
  </tr>
  <xsl:for-each select="licenses/license">
    <tr>
      <td><a href="./url"><xsl:value-of select="name"/></a></td>
      <td></td>
      <td></td>
      <td></td>
    </tr>
  </xsl:for-each>
</table>

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1.308 asm 5.0.4

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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 [@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 Type]).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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  */
/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
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 * version.
 *
 * @throws IllegalStateException
 *          If a subclass calls this constructor.
 */

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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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/**
** 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/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
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  * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassWriter.java
  * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Attribute.java
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 */
/**
 * Creates a new {AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see {Opcodes}).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see {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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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink.properties
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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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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.

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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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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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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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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.

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1.316 x-oauth2 0.0.0-20190604053449-0f29369cfe45
1.316.1 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
}

// 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"
}

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](/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/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

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
```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 -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"
    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)
        })
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}
        }
        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 {
}

ToResourceUpdateMap 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
    })(bool, error)
    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)
}
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
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
```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
```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"
}
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
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).

1.317 errors 0.8.1

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  jar/nonapi/io/github/classgraph/concurrency/AutoCloseableConcurrentQueue.java
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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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OW2

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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
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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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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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*/
/**
* 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>
  * <b>lengthFieldOffset</b>   = <b>0</b>
  * <b>lengthFieldLength</b>   = <b>2</b>
  * 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" |
  * +--------+----------------+      +--------+----------------+
  * </pre>

* Because we can get the length of the content by calling <tt>@link ByteBuf#readableBytes()</tt>, 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 <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.
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.

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 `lengthAdjustment` so that the decoder counts the extra header into the frame length calculation.
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 lengthFieldLength 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 initialBytesToStrip for initialBytesToSkip.

Before decode (16 bytes)                       After decode (13 bytes)
+-----+--------+-----+----------------+      +-----+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+-----+--------+-----+----------------+      +-----+----------------+

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 lengthFieldOffset. 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.

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/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
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  jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/SerializationException.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/marshalling/ObjectEncoderOutputStream.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/DecoderResult.java

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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/ByteBufChecksum.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java

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  * /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java
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  * /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java
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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\nModule-Build mailing list at <module-build@perl.org>.”
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
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<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 is interactive, make it output a short notice like this when it starts in an interactive mode:
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
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) = $copyright_msg =~ /.*\b(\d{4,})/s
or die "Year not found in README copyright message '$copyright_msg'";
$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

Open Source Used In SDWan 20.9.1 4494


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;
}

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<signature of Ty Coon>, 1 April 1989
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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#!/usr/bin/python
#
# Copyright (C) 2013-2018 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.py --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
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 + '
')
        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(['COPYING',
                                'COPYING.LIB',
                                'COPYING3',
                                'COPYING3.LIB',
                                'LICENSE',
                                'fdl.texi',
                                'gpl_v3.texi',
                                'fdl-1.3.xml',
                                'gpl-3.0.xml',
                                # Skip licence files.
                                'COPYING',
                                'COPYING.LIB',
                                'COPYING3',
                                'COPYING3.LIB',
                                'LICENSE',
                                'fdl.texi',
                                'gpl_v3.texi',
                                'fdl-1.3.xml',
                                'gpl-3.0.xml',
                                # new files have been added with old years). On the other hand:
                                #
                                # update-copyright.py --this-year libitm
                                #
                                # would run the script on just libitm/.
                                #
                                # Note that things like --version output strings must be updated before
                                # this script is run. There's already a separate procedure for that.
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile (r'^$')
    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][?\-\.\-,\s\s+]\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.  
  '((Cc)opyright'  
  '[(Cc)opyright\s+(\[(Cc)\])]')  
  '[(Cc)opyright\s+\%s'  
  '[(Cc)opyright\s+&copy;'  
  '[(Cc)opyright\s+@copyright\{)'  
  'copyright = u\'''  
  '[@set\s+copyright[\-]+\'])'  

  # 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).  
  '\(' + name + '\(?' + name + '\)\)?\)')  

  # 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
    else:
        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.

```python
match = self.copyright_re.match(line, match.start())
assert match
```

```python
holder = match.group(4)
```

Use the filter to test cases where markup is getting in the way.

```python
if filter.by_package_author(dir, filename):
    assert holder not in self.holders
```

```python
elif not holder:
    self.errors.report(pathname, 'missing copyright holder')
    return (False, orig_line, next_line)
```

```python
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.
```python
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.

```python
line = (line[:match.start(4)]
    + canon_form
    + line[match.end(4):])
```

Remove any 'by'

```python
line = line[:match.start(3)] + line[match.end(3):]
```

Update the copyright years.

```python
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)
    mode = None
    with open(pathname, 'r') as file:
        prev = None
        mode = os.fstat(file.fileno()).st_mode
        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)
            os.fchmod (file.fileno(), mode)
    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):
        # 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()):
        cmdl.mode = 'tree'
def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    ' % sys.argv[0])
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('

Directories:
')
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        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',
        ])
# Old news won't be updated.

class TestsuiteFilter(GenericFilter):

def __init__(self):
    GenericFilter.__init__(self)

    self.skip_extensions |= set(['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

        # Similarly params/README.
        if filename == 'README' and os.path.basename(dir) == 'params':
            return True

        if filename == 'pdt_5.f03' and os.path.basename(dir) == 'gfortran.dg':
            return True

        return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):

def __init__(self):
    GenericFilter.__init__(self)

    self.skip_extensions |= set(['po', 'pot'])

    class LibGCCFilter(GenericFilter):
def __init__ (self):
  GenericFilter.__init__ (self)

  self.skip_dirs |= set (]
      # Imported from GLIBC.
      'soft-fp',
  ])

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)
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 ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcc1')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
# libgo is imported from upstream.
self.add_dir('libgomp')
self.add_dir('libhsail-rt')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libobjc')
# liboffloadmic is imported from upstream.
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')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = ['gcc',
                     'include',
                     'libada',
                     'libatomic',
                     'libbacktrace',
                     'libcc1',
                     'libcpp',
                     'libdecnumber',
                     'libgcc',
                     'libgfortran',
                     'libgomp',
                     'libhsail-rt',
                     'libiberty',
                     'libitm',
                     'libobjc',
                     'libssp',
                     'libstdc++-v3',
                     'libvtv',
                     'lto-plugin',
                     ]

GCCCmdLine().main()
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Version 2.1, February 1999

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/* Definitions for BSD assembler syntax for Intel 386 
   (actually AT&T syntax for insns and operands, 
adapted to BSD conventions for symbol names and debugging.) 
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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 "	.byte	"
#define ASM_SHORT "	.word	"
#define ASM_LONG "	.long	"
#define ASM_QUAD "	.quad	" /* 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)))

#if defined 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 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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## xwd v1.0.7

### xwd utility

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include/GL/g1.h :

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

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* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-jwe/ContentEncryptionKeyDescriptor.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-jwt/IntDate.java
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1.368 msg-simple 1.2

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1.370 safeio 0.2.1

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#
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
src/bdf/rules.mk
#
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/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
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src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/inftutil.c
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src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
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include/GL/g1.h:
Mesa 3-D graphics library

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

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1.385 jdbc 5.10.1.Final

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1.387 setuptools-scm 3.3.3

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1.398 pciutils 3.5.6

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ASN.1 library for Python
========================

.. toctree::
:maxdepth: 1

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.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.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first
electronic mail (known as X.400). Later on it 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/protocolbuffers/>`

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

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
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.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
-------
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
-------

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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" by Olivier Dubuisson
* "ASN.1 Complete" by Prof John Larmouth

Here you can get the official standards which is hard to read:

* "ITU standards"

On the other end of the readability spectrum, here is a quick and sweet write up:

* "A Layman's Guide to a Subset of ASN.1, BER, and DER" by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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ASN.1 library for Python
------------------------

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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:

```
```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType(
      'room', Integer().subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
      )
    ),
    DefaultedNamedType(
      'house', Integer(0).subtype(
```
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
>>> 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
```

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}
```

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
room=321
```

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 [documentation](http://snmplabs.com/pyasn1/), 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`

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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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Found in path(s):
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0.4.8-0.4.8/README.md

### 1.400 six 1.14.0

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- Marc Abramowitz
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- Aymeric Augustin
- Lee Ball
- Ben Bariteau
1.401 cxf-xjc-runtime 3.3.0

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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 from 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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1.405 wildfly-clustering-web-container

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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in

Sub-types

{@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its subtypes:

- {@link ChannelInboundHandler} to handle inbound I/O events, and
- {@link ChannelOutboundHandler} to handle outbound I/O operations.

Alternatively, the following adapter classes are provided for your convenience:

- {@link ChannelInboundHandlerAdapter} to handle inbound I/O events,
- {@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and
- {@link ChannelDuplexHandler} to handle both inbound and outbound events.

For more information, please refer to the documentation of each subtype.

The context object

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;

if (message instanceof GetDataMessage) {
    ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
} else {
    ctx.writeAndFlush(fetchSecret((LoginMessage) message));
    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:

// 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());
    }
}

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:

public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
authenticate((LoginMessage) o);
<b>attr.set(true)</b>;
} 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 <a href="#link ChannelHandlerContext">ChannelHandlerContext</a>, 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 <code>@Sharable</code> annotation

In the example above which used an <a href="#link AttributeKey</a>, you might have noticed the <code>@Sharable</code> annotation.

If a <a href="#link ChannelHandler</a> is annotated with the <code>@Sharable</code> annotation, it means you can create an instance of the handler just once and add it to one or more <a href="#link ChannelPipeline</a>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 a href="http://www.javaconcurrencyinpractice.com/annotations/doc/" the JCIP annotations</a>.

Additional resources worth reading

Please refer to the <a href="#link ChannelHandler</a>, 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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1.416 slf4j-nop 1.7.30
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1.418 asm-util 8.0.1

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* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/TextifierSupport.java
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1.419 libpcap 1.9.0
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1.420 typing-extensions 4.2.0

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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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<td>PSF</td>
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1.421 gofuzz 1.0.0

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1.425 java-support 7.3.0

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1.426 neo4j 4.1.7

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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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1.430 zookeeper-jute 3.6.2

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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;
import java.io.FileIOException;
import java.io.IOException;
import java.io.LinkedHashMap;

@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(recFiles.get(i) + " 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) {
        }
    }
}

public static void main(String[] args) {
    if (args.length < 2) {
        System.out.println("Usage: java Runner <file path>");
        System.exit(1);
    }
    String[] recFiles = new String[args.length];
    for (int i=0; i<args.length; i++) {
        recFiles[i] = args[i];
    }
    parseFile(recFiles);
}
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
}

<WithinMultiLineComment> MORE:
{
   <~[]>
}

TOKEN:
{
   <MODULE_TKN: "module">
|   <RECORD_TKN: "class">
|   <INCLUDE_TKN: "include">
|   <BYTE_TKN: "byte">
|   <BOOLEAN_TKN: "boolean">
|   <INT_TKN: "int">
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;

ArrayList<JRecord> RecordList() :
{
    ArrayList<JRecord> rlist = new ArrayList<JRecord>();
    JRecord r;
}
{
    (r = Record())
    { rlist.add(r); }
}+
{ return rlist; }
}

JRecord Record() :
{
    String rname;
    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/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/jute/compiler/generated/rcc.jj
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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/RccConstants.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/Rcc.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/ParseException.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/TokenMgrError.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/SimpleCharStream.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/Token.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/generated/RccTokenManager.java

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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/ConnectRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/server/quorum/LearnerInfo.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/proto/CreateResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/proto/SetWatches.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/proto/ConnectResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/proto/CheckWatchesRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/txn/CreateContainerTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/txn/CreateSessionTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/txn/MultiTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/txn/CreateTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/proto/CheckVersionRequest.java

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    jar/org/apache/jute/compiler/JVector.java
  * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/Utils.java
  * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
    jar/org/apache/jute/compiler/CSharpGenerator.java
  * /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/compiler/REcordReader.java
  * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
    jar/org/apache/jute/compiler/JField.java
  * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
    jar/org/apache/jute/compiler/CppGenerator.java
  * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
    jar/org/apache/jute/compiler/JCompType.java
  * /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
  * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
    jar/org/apache/jute/compiler/UnaryInputArchive.java
  * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
    jar/org/apache/jute/compiler/JFile.java
  * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
    jar/org/apache/jute/compiler/JLong.java
  * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
    jar/org/apache/jute/compiler/JDouble.java
  * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
    jar/org/apache/jute/compiler/InputArchive.java
  * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
    jar/org/apache/jute/compiler/JType.java
  * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
    jar/org/apache/jute/jute/BinaryOutputArchive.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

1.431 libjpeg 6b
1.431.1 Notifications:
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1.431.2 Available under license:
The Independent JPEG Group's JPEG software

README for release 6b of 27-Mar-1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.
I. JG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.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.

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REFERENCES

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 M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides 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 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 numbers ISO/IEC IS 10918-2, ITU-T T.83.

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.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
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
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

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
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with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2
RELATED SOFTWARE

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 cjpegdjpeg 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

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.

1.432 kubernetes-apimachinery 0.16.9
1.432.1 Available under license:

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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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1.437 hibernate-search-engine 5.10.7.Final

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1.438 jansi-native 1.6

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* /opt/cola/permits/1260754100_1643213343.47/0/jansi-native-1-6-sources-jar/org/fusesource/jansi/internal/WindowsSupport.java
* /opt/cola/permits/1260754100_1643213343.47/0/jansi-native-1-6-sources-jar/org/fusesource/jansi/internal/Kernel32.java

1.439 snake-yaml 1.26

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1.440 swagger-core 2.1.0

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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
Bundle-Version: 2.1.0
Created-By: Apache Maven Bundle Plugin


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package: io.swagger

Require-Capability: osgi.ee:="(&osgi.ee=JavaSE)(version=1.8)"

Tool: Bnd-3.5.0.201709291849

url: https://github.com/swagger-api/swagger-core/modules/swagger-core

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* /opt/cola/permits/1017896250_1639446452.82/0/swagger-core-2-1-0-jar/META-INF/MANIFEST.MF

1.441 bouncy-castle 1.46

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jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/jmx/export/SpringModelMBean.java
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/ApplicationEventPublisherAware.java
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/cache/interceptor/CacheOperationExpressionEvaluator.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/context/support/PropertySourcesPlaceholderConfigurer.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/jndi/JndiCallback.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/format/datetime/joda/JodaTimeConverters.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/context/annotation/ConditionContext.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/ui/context/support/ResourceBundleThemeSource.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/context/annotation/ImportRegistry.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/context/annotation/EnableLoadTimeWeaving.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/validation/BeanPropertyBindingResult.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/scheduling/config/ScheduledTaskRegistrar.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/context/annotation/ConditionEvaluator.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/context/ApplicationContextInitializer.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/cache/interceptor/CacheableOperation.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/remoting/support/RemoteInvocationResult.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources.jar/org/springframework/jmx/export/notification/ModelMBeanNotificationPublisher.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 programatically
 * 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>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * {code @Configuration}, including {code @Configuration @Configuration} classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any {code @Bean @Bean} method</li>
 * </ul>
 *
 * <p>If a {code @Configuration} class is marked with {code @Conditional},
 * all of the {code @Bean} methods, {code @Import @Import} annotations, and
 * {code @ComponentScan @ComponentScan} annotations associated with that
 * class will be subject to the conditions.
 *
 * <p><strong>NOTE</strong>: Inheritance of {code @Conditional} annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * {code @Conditional} itself is not declared as
 * {link java.lang.annotation.Inherited @Inherited}; furthermore, any
 * custom <em>composed annotation</em> that is meta-annotated with
 * {code @Conditional} must not be declared as {code @Inherited}.
 *
 * @author Phillip Webb
 * @author Sam Brannen
* @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
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/cache/annotation/CacheConfig.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/event/EventListenerFactory.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/remoting/RemoteTimeoutException.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scripting/config/LangNamespaceHandler.java
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/format/number/PercentStyleFormatter.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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jar/org/springframework/ui/ModelMapExtensions.kt
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jar/org/springframework/ui/ModelExtensions.kt
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jar/org/springframework/context/index/CandidateComponentsIndex.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/scheduling/concurrent/ConcurrentTaskExecutor.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/jmx/export/metadata/AbstractMBeanAttribute.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/context/scripting/groovy/GroovyScriptFactory.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/context/annotation/ClassPathScanningCandidateComponentProvider.java
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jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/context/support/AbstractApplicationContext.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/context/annotation/Configuration.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.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.
 *
 * 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.
 *
 * 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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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/cache/Cache.java
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1.444 requests-oauthlib 1.3.0

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1.445 jetty-http 9.4.35.v20201120

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

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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.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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1.452 cron 3.0pl1 128ubuntu2

1.453 hk2-utils 2.6.1

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## Source Code

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* https://github.com/eclipse-ee4j/glassfish-ha-api
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1.454 libvmtools 11.2.5.26209

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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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   (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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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.

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executable containing the modified Library. (It is understood
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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* /opt/cola/permits/1000038730_1646171451.0/0/jcodings-1-0-12-sources-jar/org/jcodings/IntHolder.java
* /opt/cola/permits/1000038730_1646171451.0/0/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/To_UTF_32LE_Transcoder.java
* /opt/cola/permits/1000038730_1646171451.0/0/jcodings-1-0-12-sources-jar/org/jcodings/specific/UTF16BEEncoding.java
* /opt/cola/permits/1000038730_1646171451.0/0/jcodings-1-0-12-sources-jar/org/jcodings/transcode/Transcoding.java
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## DOM Level 3 Core Specification v1.0

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

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1.482 ca-certificates 20191127-r2

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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>MODE_ASYNCHRONOUS</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>MODE_ASYNCHRONOUS</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
 *   LSParser will be free to use any schema found), use the value
 *   <code>null</code>.
 *   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><b>Note:</b> 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/W3C-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 <code>"error-handler"</code> 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.
* /`

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/**
 * used to check the 3 constraints against each complex type
 *  (should be each model group):
 *  Unique Particle Attribution, Particle Derivation (Restriction),
 *  Element Declarations Consistent.
 */

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
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Protocol Buffers for Go with Gadgets

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1.496 cxf-rt-bindings-soap 3.3.6

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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/FieldAttributes.java
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* /opt/cola/permits/1001015223_1608021262.66/0/gson-2-6-2-sources-jar/com/google/gson/internal/LinkedHashTreeMap.java

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* /opt/cola/permits/1001015223_1608021262.66/0/gson-2-6-2-sources-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
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* @author Rossen Stoyanchev
* @since 3.1
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jar/org/springframework/web/servlet/mvc/condition/MediaTypeExpression.java
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jar/org/springframework/web/servlet/handler/SimpleServletHandlerAdapter.java
* /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/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/method/annotation/PathVariableMapMethodArgumentResolver.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/mvc/method/annotation/PathVariableMapMethodArgumentResolver.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/view/groovy/GroovyMarkupViewResolver.java
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/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * <code>{ @link #locateSource detected } </code> during response rendering. Users can either specify
 * a specific entry in the model via the <code>{ @link #setSourceKey sourceKey } </code> property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See <code>{ @link #getSourceTypes() here } </code>
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure <code>{ @link #setOutputProperties output properties } </code>
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */

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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/view/xslt/XsltView.java

1.499 jetty-security 9.4.24.v20191120
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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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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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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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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

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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.
 * <p>
 * The behaviour of methods inherited from java.lang.Object are undefined by the MicroProfile OpenAPI
 * specification.
 * <p>
 * Example:
 * <pre>
 * public class MyOASMModelReaderImpl implements OASMModelReader {
 *    
 *    {@literal @}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"))
 *    }
 * }<pre>
 */

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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 = {@literal @}Info(
*     title="AirlinesRatingApp API",
*     version = "1.0",
*     termsOfService = "http://airlinesratingapp.com/terms",
*     contact = {@literal @}Contact(
*       name = "AirlinesRatingApp API Support",
*       url = "http://exampleurl.com/contact",
*       email = "techsupport@airlinesratingapp.com"),
*     license = {@literal @}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.

* Example:

```java
public class MyOASModelReaderImpl implements OASModelReader {

    {@literal @}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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```
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```

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/* "grpc_tools/_protoc_compiler.pyx":1
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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/implementations/rpc_method.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar.gz/grpcio-tools-1.34.0/grpc_root/src/compiler/cpp_generator.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/atm.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar.gz/grpcio-tools-1.34.0/grpc_root/include/grpcpp/impl/client_unary_call.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar.gz/grpcio-tools-1.34.0/grpc_root/src/compiler/objective_c_generator.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar.gz/grpcio-tools-1.34.0/grpc_root/include/grpcpp/security/credentials.h
* /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/core_codegen_interface.h
* /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/async_unary_call.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar.gz/grpcio-tools-1.34.0/grpc_root/include/grpcpp/security/auth_metadata_processor.h
* /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/protobuf_reader.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar.gz/grpcio-tools-1.34.0/grpc_root/include/grpc/impl/codegen/log.h
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf.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

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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/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/stubs/casts.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/compiler/csharp/csharp_generator_unittest.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/grpcpp/impl/codegen/async_stream.h
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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/grpcpp/impl/codegen/sync_abseil.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/php_generator_helpers.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/src/compiler/node_generator.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/src/compiler/node_generator.cc
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpcpp/impl/server_builder_plugin.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/grpc_security_constants.h
* /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/status_code_enum.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/server_initializer.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpccpp/impl/codegen/core_codegen.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/grpccpp/create_channel_posix.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpccpp/test/server_context_test_spouse.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpccpp/impl/codegen/rpc_service_method.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/src/compiler/php_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/grpc_types.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/grpc_cronet.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/grpc.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/propagation_bits.h
* /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/gpr_types.h
* /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/gpr_slice.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/src/compiler/node_generator_helpers.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/grpc_census.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/grpc++/impl/codegen/client_interceptor.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
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1.34.0/grpc_root/include/grpc++/impl/codegen/core_codegen_interface.h
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1.34.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_enum_field.h

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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
Package for gRPC Python tools.

Supported Python Versions
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Python >= 3.5

Deprecated Python Versions
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Python == 2.7. Python 2.7 support will be removed on January 1, 2020.

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

Installing From PyPI
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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:

`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
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 `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](https://pypi.python.org/pypi/grpcio-health-checking):

```python
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 `grpcio-tools` in `setup_requires` will provide the command on-setup as desired.

For more information on command classes, consult `distutils` and `setuptools` documentation.
1.510 go-autorest-to 0.3.0

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```
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1.513 jsonpointer 2.0

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1.514 openssl 1.1.1l

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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/access/expression/AbstractVariableEvaluationContextPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-jar/org/springframework/security/web/authentication/DelegatingAuthenticationFailureHandler.java
* /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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* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-jar/org/springframework/security/web/csrfl/LazyCsrfTokenRepository.java
* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-jar/org/springframework/security/web/util/matcher/MvcRequestMatcher.java
* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-jar/org/springframework/security/web/util/matcher/RequestVariablesExtractor.java
* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-jar/org/springframework/security/web/csrfl/CookieCsrfTokenRepository.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/PortMapper.java
* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-
jar/org/springframework/security/web/authentication/RememberMeServices.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/authentication/AuthenticationSwitchUserEvent.java
* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-
jar/org/springframework/security/web/session/HttpSessionCreatedEvent.java
* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-
jar/org/springframework/security/web/access/AccessDeniedHandler.java
* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-
jar/org/springframework/security/web/savedrequest/SavedRequestAwareWrapper.java
1.519 jackson-mapper-asl 1.9.13

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1.520 commons-lang3 3.8.1

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jar/org/springframework/express/TypeLocator.java
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jar/org/springframework/express/MethodFilter.java
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jar/org/springframework/express/ConstructorResolver.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/MethodReference.java
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jar/org/springframework/expression/spel/ast/Selection.java
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* /opt/cola/permits/1141637169_1615091308.85/0/spring-expression-5-1-17-release-sources-
  jar/org/springframework/expression/ExpressionParser.java

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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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  jar/org/springframework/expression/spel/ast/OpDec.java
* /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
* /opt/cola/permits/1141637169_1615091308.85/0/spring-expression-5-1-17-release-sources-
  jar/org/springframework/expression/spel/ast/OpNE.java
* /opt/cola/permits/1141637169_1615091308.85/0/spring-expression-5-1-17-release-sources-
  jar/org/springframework/expression/common/ExpressionUtils.java
* /opt/cola/permits/1141637169_1615091308.85/0/spring-expression-5-1-17-release-sources-
  jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /opt/cola/permits/1141637169_1615091308.85/0/spring-expression-5-1-17-release-sources-
  jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/cola/permits/1141637169_1615091308.85/0/spring-expression-5-1-17-release-sources-
  jar/org/springframework/expression/spel/TypeConverter.java
* /opt/cola/permits/1141637169_1615091308.85/0/spring-expression-5-1-17-release-sources-
  jar/org/springframework/expression/Expression.java
* /opt/cola/permits/1141637169_1615091308.85/0/spring-expression-5-1-17-release-sources-
  jar/org/springframework/expression/TypeComparator.java
* /opt/cola/permits/1141637169_1615091308.85/0/spring-expression-5-1-17-release-sources-
  jar/org/springframework/expression/spel/ast/OpMinus.java
1.522 wildfly-client-config 1.0.1.Final

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Manifest-Version: 1.0
Bundle-License: http://repository.jboss.org/licenses/apache-2.0.txt
Bundle-SymbolicName: org.wildfly.client.wildfly-client-config
Built-By: kabir
Bnd-LastModified: 1535117257232
Specification-Title: WildFly Client Configuration
Implementation-Vendor-Id: org.wildfly.client
Bundle-DocURL: http://www.jboss.org
Import-Package: javax.xml.namespace, javax.xml.stream, org.jboss.logging
;version="[3.3,4)",org.wildfly.common;version="[1.2,2)",org.wildfly.common.expression;version="[1.2,2)",org.wildfly.common.function;version="[1.2,2)",org.wildfly.common.net;version="[1.2,2)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Scm-Url: http://github.com/jboss/jboss-parent-pom/wildfly-client-config
Export-Package: org.wildfly.client.config;version="1.0.1.Final",uses=
"javax.xml.stream,org.wildfly.common.expression,org.wildfly.common.function,org.wildfly.common.net"
Bundle-Name: WildFly Client Configuration
Implementation-Title: WildFly Client Configuration
Bundle-Description: Library for supporting WildFly common client configuration
Implementation-Version: 1.0.1.Final
Java-Version: 1.8.0_111
Scm-Connection: scm:git:git@github.com:jboss/jboss-parent-pom.git/wildfly-client-config
Specification-Vendor: JBoss by Red Hat
Os-Arch: x86_64
Bundle-ManifestVersion: 2
Java-Vendor: Oracle Corporation
Bundle-Vendor: JBoss by Red Hat
Os-Name: Mac OS X
Tool: Bnd-3.3.0.201609221906
Implementation-Vendor: JBoss by Red Hat
Os-Version: 10.13.6
Scm-Revision: 53c774d2df1d1df74fa5333b8975cebcada74839
Bundle-Version: 1.0.1.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_111
Specification-Version: 1.0.1.Final
Implementation-URL: http://www.jboss.org/wildfly-client-config

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* /opt/cola/permits/1258711590_1643103373.87/0/wildfly-client-config-1-0-1-final-jar/schema/wildfly-client_1_0.xsd

1.523 neo4j-cypher-planner-spi 4.1.7

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When a program is linked with a library, whether statically or using
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We call this license the "Lesser" General Public License because it
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case, there is little to gain by limiting the free library to free
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non-free programs enables many more people to use the whole GNU
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Although the Lesser General Public License is Less protective of the
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linked with the Library has the freedom and the wherewithal 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.

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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 such an object file uses only numerical parameters, data
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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/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5-jar/com/mchange/v1/util/UnexpectedException.java
* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5-jar/com/mchange/v2/jvm/InternalNameUtils.java
* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5-jar/com/mchange/v2/cmdline/UnexpectedSwitchException.java
* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5-jar/com/mchange/v2/util/PatternReplacementMap.java
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jar/com/mchange/v1/db/sql/ConnectionBundlePoolImpl.java
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jar/com/mchange/v1/db/sql/ConnectionBundleImpl.java
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* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5-
jar/com/mchange/v2/codegen/bean/ParsedPropertyBeanDocument.java
* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5-
jar/com/mchange/v2/holders/ThreadSafeShortHolder.java
* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5-
jar/com/mchange/v2/holders/SynchronizedShortHolder.java
* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5-
jar/com/mchange/impl/LongObjectHash.java
* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5-

1.530 simpleclient-common 0.6.0

1.531 isodate 0.6.0

1.531.1 Available under license:

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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@proclous.com
License: BSD
Description:
ISO 8601 date/time parser

.. image:: https://travis-ci.org/gweis/isodate.svg?branch=master
   :target: https://travis-ci.org/gweis/isodate
   :alt: Travis-CI

.. image:: https://coveralls.io/repos/gweis/isodate/badge.svg?branch=master
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   :alt: Coveralls
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 unitests 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 formating 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 verse.
  - 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]

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
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 :: PyPy
Classifier: Topic :: Internet
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* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate.egg-info/PKG-INFO
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/PKG-INFO

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1.532 jberet-core 1.3.5.Final

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1.538 error_prone_annotations 2.3.4

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1.539 oauthlib 3.2.0
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1.540 picketlink-federation 2.5.5.SP12-redhat-00006

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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: 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

## 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 `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_configuration_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 AzureFirewallIIPIPConfiguration 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`
- 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.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_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 aadIssuer
- 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 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` (replaces `outbound_nat_rule`)
- Model BackendAddressPool has a new parameter `outbound_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 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:

<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 versioning 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 versioning 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
- SecurityRule.source_port_ranges attribute
- SecurityRule.destination_port_ranges attribute
- SecurityRule.source_address_prefixes attribute
- SecurityRule.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]

## 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
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1.542 jakarta xml bind api 2.3.3
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1.546 lucene-suggest 7.7.0

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*/
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* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter-1-2-4-final-sources-1-
jar/org/jboss/classfilewriter/annotations/FloatAnnotationValue.java
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jar/org/jboss/classfilewriter/attributes/ExceptionsAttribute.java
* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter-1-2-4-final-sources-1-
jar/org/jboss/classfilewriter/constpool/Utf8Entry.java
* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter-1-2-4-final-sources-1-
jar/org/jboss/classfilewriter/constpool/LongEntry.java
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    <artifactId>jboss-parent</artifactId>
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  <name>classfilewriter</name>
  <url>https://github.com/jbossas/jboss-classfilewriter</url>
  <developers>
    <developer>
      <name>Stuart Douglas</name>
      <email>sdouglas@redhat.com</email>
    </developer>
  </developers>
  <licenses>
    <license>
      <name>Apache License, version 2.0</name>
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          <Bundle-Version>${project.version}</Bundle-Version>
          <Export-Package>
            org.jboss.classfilewriter.*;version=${project.version}
          </Export-Package>
        </instructions>
      </configuration>
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          <goals>
            <goal>bundle</goal>
          </goals>
          <phase>package</phase>
        </execution>
      </executions>
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  </plugins>
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</build>

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<connection>scm:git:git://github.com/jbossas/jboss-classfilewriter.git</connection>
<developerConnection>scm:git:git@github.com:jbossas/jboss-classfilewriter.git</developerConnection>
<url>scm:git:git://github.com/jbossas/jboss-classfilewriter.git</url>
</scm>

</project>

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter-1-2-4-final-sources-1-
jar/META-INF/maven/org.jboss.classfilewriter/jboss-classfilewriter/pom.xml
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* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter-1-2-4-final-sources-1-
jar/org/jboss/classfilewriter/util/Signatures.java

1.549 tdb 1.44.5
1.549.1 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
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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): $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

$(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(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:: $(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

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

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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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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o
23-June-2007
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```python
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")

main()
```

---

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.

---

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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_1606855956.290/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

1.573 pyopenssl 19.1.0
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* /opt/cola/permits/1002303179_1646171674.54/0/jul-to-slf4j-stub-1-0-1-final-sources-jar/org/slf4j/bridge/SLF4JBridgeHandler.java

1.596 util-linux 2.33.1 0.1
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Files: *

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1.598 wildfly-core-management-subsystem

11.1.1.Final

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1.599 wildfly-microprofile-fault-tolerance-smallrye-executor 19.1.0.Final

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1.600 jackson-coreutils 1.0

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1.601 wildfly-clustering-ejb-infinispan

19.1.0.Final

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  jar/io/netty/channel/ChannelInboundInvoker.java
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  jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1260753206_1643213349.03/0/netty-transport-4-1-51-final-sources-
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  jar/io/netty/channel/ChannelOutboundInvoker.java
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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>
For more information, please refer to the documentation of each subtype.

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&lt;Message&gt; {

    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();
            }
        }
    }

    ... // other methods
}
```

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:
* // 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", new DataServerHandler());
*     }
* }
* }
* </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
* }
* }
* 
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
*     private final {@link AttributeKey}<@link Boolean> auth = 
*           AttributeKey.valueOf("auth");
*     {@code @Override}
*     public void channelRead(<@link ChannelHandlerContext> ctx, Message message) {
*         Attribute<@link Boolean> attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             attr.set(true); 
*         } else (message instanceof GetDataMessage) {
*             if (Boolean.TRUE.equals(attr.get())) {
*                 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}<@link Channel> {
*     {@code @Override}
*     public void initChannel(<@link Channel> channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
* </pre>
private static final DataServerHandler SHARED = new DataServerHandler();

public void initChannel(@link Channel) channel {
    channel.pipeline().addLast("handler", SHARED);
}

The [@code @Sharable] annotation

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

Additional resources worth reading

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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  jar/io/netty/channel/pool/FixedChannelPool.java
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 * jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.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.

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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
3a0982da308228d796df35f98d787c5c8f2bb5b6.
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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        <xsl:param name="text"/>
        <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
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This debian package was first created by Michael Stone <mstone@debian.org>, from coreutils 4.5.1.

Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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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

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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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1.608 linux-atm 2.5.1-1.5

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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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* /opt/cola/permits/1260753132_1643213170.3/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /opt/cola/permits/1260753132_1643213170.3/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1260753132_1643213170.3/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/AbstractSniHandler.java

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* /opt/cola/permits/1260753132_1643213170.3/o/netty-handler-4-1-51-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
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* /opt/cola/permits/1260753132_1643213170.3/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1260753132_1643213170.3/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1260753132_1643213170.3/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
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* /opt/cola/permits/1260753132_1643213170.3/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1260753132_1643213170.3/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1260753132_1643213170.3/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java

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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
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really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
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Others: Transfer to one of these accounts if possible:
    Postbank, account 4548774
Swift code: INGB NL 2A
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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
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

These regions are defined in attempt to do syntax checking for some of the attributes.

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Open Source Used In SDWan 20.9.1 7374
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"
```
1.622 smallrye-config-source-file-system

1.6.2

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* /opt/cola/permits/1264890196_1643889016.47/0/smallrye-config-source-file-system-1-6-2-sources-
jar/io/smallrye/config/source/file/FileSystemConfigSource.java

1.623 wildfly-elytron-http-digest 1.11.4.Final

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1.624 compensations 5.10.1.Final

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1.625 libnsl 2.31

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* /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/Cookie.java
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* /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/XMLTokener.java
* /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/Property.java
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* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2017_03_01/operations/_virtual_networks_operations.py
* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2020_03_01/operations/_service_endpoint_policy_definitions_operations.py
* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2017_08_01/operations/_available_endpoint_services_operations.py
* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2017_10_01/operations/_inbound_nat_rules_operations.py
* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2016_12_01/operations/_virtual_network_gateway_connections_operations.py
* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2018_06_01/operations/_network_management_client_operations.py
* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2015_06_15/operations/_load_balancers_operations.py
* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2020_03_01/operations/_route_tables_operations.py
* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2018_12_01/operations/_express_route_circuit_connections_operations.py
* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2019_09_01/operations/_load_balancer_frontend_ip_configurations_operations.py
* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2017_09_01/operations/_private_link_services_operations.py
* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2019_07_01/operations/_express_route_circuit_authorizations_operations.py
* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2018_07_01/operations/_network_watchers_operations.py
* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1-zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2020_04_01/operations/_bgp_service_communities_operations.py
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: az pysdkhelp@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_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
- 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_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 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 fqn_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 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: [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 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
  - `SecurityRule.source_port_ranges` attribute
  - `SecurityRule.destination_port_ranges` attribute
  - `SecurityRule.source_address_prefixes` attribute
  - `SecurityRule.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 UriPathMap, 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)

1.628 annotations 2.0.1

1.628.1 Available under license :

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1.629 jackson-dataformat-yaml 2.10.1

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### 1.630 velocity 1.6.2

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* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/buffer/MutableRoaringBitmap.java
* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/Container.java
* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/ReverseIntIteratorFlyweight.java
* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/longlong/LongIterator.java
* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/RoaringBitmap.java
* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/ImmutableBitmapDataProvider.java
* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/ContainerPointer.java
* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/BitmapDataProviderSupplier.java
* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/BufferReverseIntIteratorFlyweight.java
* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/Util.java
* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/ImmutableRoaringArray.java
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* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/shortlong/package-info.java
* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/buffer/BufferReverseIntIteratorFlyweight.java
* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/org/roaringbitmap/buffer/MutableRoaringArraySupplier.java
No license file was found, but licenses were detected in source scan.

  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>org.roaringbitmap</groupId>
    <artifactId>RoaringBitmapParent</artifactId>
    <version>0.7.17</version>
  </parent>
  <artifactId>RoaringBitmap</artifactId>
  <name>RoaringBitmap</name>
  <url>https://github.com/RoaringBitmap/RoaringBitmap</url>
  <description>Roaring bitmaps are compressed bitmaps (also called bitsets) which tend to outperform conventional compressed bitmaps such as WAH or Concise. </description>
  <packaging>bundle</packaging>
  <developers>
    <developer>
      <id>lemire</id>
      <name>Daniel Lemire</name>
      <email>lemire@gmail.com</email>
      <url>http://lemire.me/en/</url>
      <roles>
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        <role>developer</role>
        <role>maintainer</role>
      </roles>
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      </properties>
    </developer>
  </developers>
</project>
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</configuration>
</plugin>
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<artifactId>maven-bundle-plugin</artifactId>
<version>3.2.0</version>
<extensions>true</extensions>
<configuration>
<instructions>
<Export-Package>org.roaringbitmap.*</Export-Package>
<Import-Package>*</Import-Package>
</instructions>
</configuration>
</plugin>
</plugins>
</build>
</project>

Found in path(s):
* /opt/cola/permits/1260753176_1643213203.82/0/roaringbitmap-0-7-17-sources-jar/META-INF/maven/org.roaringbitmap/RoaringBitmap/pom.xml

1.636 python-requests 2.23.0

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1.637 bouncy-castle 1.62
1.638 jetty-webapp 9.4.35.v20201120

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* 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

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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

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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.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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* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/ConstraintTarget.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/ConstraintValidatorContext.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/metadata/ExecutableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/groups/Default.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/MessageInterpolator.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/metadata/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/valueextraction/Unwrapping.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/valueextraction/ValueExtractor.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/constraintvalidation/ValidationTarget.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/metadata/MethodDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/UnexpectedTypeException.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/metadata/BeanDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/java/validation/constraints/Digits.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMax.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0-2-sources-3.jar/javax/validation/constraints/Positive.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0-2-sources-3.jar/javax/validation/constraints/NotEmpty.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0-2-sources-3.jar/javax/validation/ConfigurationState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0-2-sources-3.jar/javax/validation/Payload.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0-2-sources-3.jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0-2-sources-3.jar/javax/validation/constraints/Past.java

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0-2-sources-3-jar/META-INF/maven/jakarta.validation-api/pom.xml

1.642 parboiled-scala 1.2.0

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* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/rules/PushRule.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/rules/Rule0.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/parserunners/BasicParseRunner.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/utils/Predicate.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/parserunners/ParseRunner.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/parserunners/RecoveringParseRunner.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/rules/CharRule.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/WithContextAction.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/parserunners/TracingParseRunner.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/parserunners/RecoveringParseRunner.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/rules/PopRule.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/package.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/ParsingResult.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/Parser.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/Input.scala
* /opt/cola/permits/1260754313_1643213218.14/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled/scala/RuleOption.scala

1.643 netcat-openbsd 1.105-7ubuntu1

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1.645 vixie-cron 1.5.1

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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was 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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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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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.
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org.ow2.asm:asm-commons
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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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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

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1.649 iperf 3.5
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*/

package java.security;

import java.io.Serializable;

/**
* Legacy security code; do not use.
*/
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException {
    }

    public PermissionCollection newPermissionCollection() {
}
return new AllPermissionCollection();
}

public abstract String getActions();

public abstract boolean implies(Permission permission);
}

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* file name: UBiDiProps.java
* encoding: US-ASCII
* tab size:  8 (not used)
* indentation:4
*
* created on: 2005jan16
* created by: Markus W. Scherer
*
* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi_props.h/.c.
This locale data is based on the ICU's Vietnamese locale data (rev. 1.38) found at:

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Replaceable is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the Replaceable API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

Replaceable specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

Replaceable also includes API to access characters in the string: length(), charAt(), char32At(), and extractBetween().

For a subclass to support metadata, typical behavior of replace() is the following:

- Set the metadata of the new text to the metadata of the first character replaced
- If no characters are replaced, use the metadata of the previous character
- If there is no previous character (i.e. start == 0), use the following character
- If there is no following character (i.e. the replaceable was empty), use default metadata
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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ReplaceableString is an adapter class that implements the
<code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not intended for general use. Most clients will need to implement [Replaceable] in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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JUnit

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Full name: Jan Bartel
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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

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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<th>Name</th>
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<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
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1.656 opentracing-jaxrs2 0.4.1

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* /opt/cola/permits/1094804017_1602785278.01/0/opentelemetry-api-0-6-0-sources-
jar/io/opentelemetry/metrics/LongUpDownSumObserver.java
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scriptversion=2005-07-09.11


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1.664 readline 6.3-8ubuntu2

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ftp.gnu.org:/pub/gnu/readline/readline-6.0.tar.gz.

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$Id: JDOMLocator.java,v 1.3 2004/02/06 09:28:32 jhunter Exp $

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$Id: OrFilter.java,v 1.4 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/filter/OrFilter.java
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$Id: DOMAdapter.java,v 1.21 2004/02/06 09:28:31 jhunter Exp $

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$Id: JDOMParseException.java,v 1.7 2004/02/17 02:29:24 jhunter Exp $

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/*--
*/

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/input/JDOMParseException.java
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/*--

$Id: AttributeList.java,v 1.23 2004/02/28 03:30:27 jhunter Exp $

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Found in path(s):
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$Id: 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/adapters/XML4JDOMAdapter.java
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$Id: TextBuffer.java,v 1.8 2004/02/06 09:28:31 jhunter Exp $

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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: IllegalTargetException.java,v 1.14 2004/02/06 09:28:30 jhunter Exp $

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//navbar

Id: CrimsonDOMAdapter.java,v 1.16 2004/02/06 09:28:31 jhunter Exp $

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$Id: Attribute.java,v 1.52 2004/03/01 23:58:28 jhunter Exp $

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* /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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$Id: JDOMException.java,v 1.23 2004/02/27 11:32:57 jhunter Exp $

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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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$Id: SAXHandler.java,v 1.68 2004/08/31 06:14:05 jhunter Exp $

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$Id: JAXPParserFactory.java,v 1.5 2004/02/27 21:08:47 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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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/input/DOMBuilder.java
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/*--

$Id: ContentFilter.java,v 1.14 2004/08/31 04:56:07 jhunter Exp $

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$Id: Escape Strategy.java,v 1.3 2004/02/06 09:28:32 jhunter Exp$

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/output/EscapeStrategy.java
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Found in path(s):
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$Id: OracleV1DOMAdapter.java,v 1.19 2004/02/06 09:28:31 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/adapters/OracleV1DOMAdapter.java
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$Id: DefaultJDOMFactory.java,v 1.6 2004/09/01 05:25:38 jhunter Exp $

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/DefaultJDOMFactory.java
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$Id: ProcessingInstruction.java,v 1.46 2004/02/27 11:32:57 jhunter Exp$

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/*

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/xpath/JaxenXPath.java
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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2.jar/org/jdom/adapters/OracleV2DOMAdapter.java

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$Id: DescendantIterator.java,v 1.5 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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$Id: IllegalDataException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp $

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$Id: Element.java,v 1.152 2004/09/03 06:35:39 jhunter Exp $

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$Id: XPath.java,v 1.15 2004/02/06 09:28:32 jhunter Exp $

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$Id: NamespaceStack.java,v 1.13 2004/02/06 09:28:32 jhunter Exp $

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$Id: Filter.java,v 1.9 2004/02/06 09:28:31 jhunter Exp$

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/filter/Filter.java
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$Id: EntityRef.java,v 1.21 2004/02/27 11:32:57 jhunter Exp $

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1.671 scala 2.10.4

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/'The confidential flag'/'private boolean confidential;' 'param confidential Is this config property confidential'

ConfigProperty(String name, boolean dynamic, boolean confidential)this.confidential = confidential; Get the
confidential flag public boolean isConfidential() return confidential; sb.append("confidential="");

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* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
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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
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/ShortMemberValue.java
* /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
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/IntegerMemberValue.java
1.681 klibc 2.0.4-9

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* 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](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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1.684 wildfly-clustering-singleton-extension

19.1.0.Final

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1.685 future 0.18.2-1.ph3

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1.694 elasticsearch-ssl-config 6.8.10

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonParser.java

1.696 kubernetes-klog 1.0.0

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1.697 python 3.5.2 2ubuntu0~16.04.9

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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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+----------------+--------------+------------+------------+-----------------+
| Release        | Derived from | Year       | Owner      | GPL compatible? |
|----------------+--------------+------------+------------+-----------------+
<p>| 0.9.0 thru 1.2 | n/a          | 1991-1995  | CWI        | yes             |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999  | CNRI       | yes             |</p>
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Mersenne Twister

_________________

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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 `socket` module uses the functions, `getaddrinfo`, and
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Uuencode and Uudecode functions
----------------------------------

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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

The :mod:`xmlrpc.client` module contains the following notice::

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Select kqueue
-------------

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SipHash24
---------

The file `:file:` `Python/pyhash.c` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. It contains the following note::
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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
   Samuel Neves (supercop/crypto_auth/siphash24/little)
   djb (supercop/crypto_auth/siphash24/little2)
   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
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-----
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libffi

------

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zlib
----

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cfuhash
-----

The implementation of the hash table used by the `mod:` `tracemalloc` is based
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libmpdec
--------

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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, 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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1.703 django-crontab 0.7.1

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Metadata-Version: 1.1
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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about
=======

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 0 1 * *', 'myapp.cron.my_scheduled_job', '>> /tmp/scheduled_job.log'),
    # format 2
    ('0 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 wanna 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 wanna do after each job was executed.
- default: " (empty string)
- example: '2>&1'

CRONTAB_COMMENT
- used for marking the added contab-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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* /opt/cola/permits/1155895496_1619081433.47/0/django-crontab-0-7-1-1-tar-gz/django-crontab-0.7.1/django_crontab.egg-info/PKG-INFO
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1.704 wildfly-elytron-realm 1.11.4.Final
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* /opt/cola/permits/1260754488_1643213058.98/0/wildfly-elytron-realm-1-11-4-final-sources-
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1.706 isodate 0.6.1

1.706.1 Available under license:

No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: isodate
Version: 0.6.1
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
License: BSD
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
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 :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: 3.9
Classifier: Programming Language :: Python :: 3.10
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ISO 8601 date/time parser

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.. image:: https://travis-ci.org/gweis/isodate.svg?branch=master
   :target: https://travis-ci.org/gweis/isodate
   :alt: Travis-CI

.. image:: https://coveralls.io/repos/gweis/isodate/badge.svg?branch=master
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.. image:: https://img.shields.io/pypi/v/isodate.svg

Open Source Used In SDWan 20.9.1 8347
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>`.

CHANGELOG

0.6.1 (2021-12-13)
- support python 3.10 
- last version to support py 2.7

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 totaldelta

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 verse.
  - 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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* /opt/cola/permits/1241800647_1640114122.41/0/isodate-0-6-1-tar-gz/isodate-0.6.1/src/isodate.egg-info/PKG-INFO
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/EnumerationFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarParser.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/IDateTimeValueType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/DateTimeFactory.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarFormatter.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/BigDateTimeValueType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/Util.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/WhiteSpaceProcessor.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/DataTypeWithFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/PositiveIntegerType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DateType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Discrete.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/regex/XercesImpl.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ConcreteType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Comparator.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GYearType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GDayType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IDType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/QnameType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/BinaryBaseType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IDREFType.java

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  */opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources.jar/com/sun/msv/datatype/regexp/RegexParser.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/regexp/RegularExpression.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/regexp/Op.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/regexp/ParseException.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/regexp/REUtil.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/regexp/Match.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/regexp/REUtil.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/regexp/Token.java

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  jar/com/sun/msv/datatype/xsd/Messages.properties
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/xsd/Messages_ja.properties

1.710 remoting-jmx 3.0.4.Final

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 * Encodes and decodes to and from Base64 notation.
 * Homepage: http://iharder.net/base64
 * Example:
 * String encoded = Base64.encode( myByteArray );
 * byte[] myByteArray = Base64.decode( encoded );
 * The options 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.
 * Note, according to RFC3548, 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 );
 * 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 shrunk and
 * contained an extra (null) byte that made it into the string.
 * Fixed bug in where estimated buffer size
 * was wrong for files of size 31, 34, and 37 bytes.
 * 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.</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>
* 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>
* 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>
* 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:
* &lt;ul&gt;
* &lt;li&gt;Does not break lines, by default. &lt;em&gt;This is to keep in compliance with
* RFC3548&lt;/a&gt;.&lt;/li&gt;
* &lt;li&gt;&lt;em&gt;Throws exceptions instead of returning null values. &lt;/em&gt; 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.&lt;/li&gt;
* &lt;li&gt;&lt;em&gt;Removed all references to System.out, System.err, and the like.&lt;/em&gt;
* Shame on me. All I can say is sorry they were ever there.&lt;/li&gt;
* &lt;li&gt;&lt;em&gt;Throws NullPointerExceptions and IllegalArgumentExceptions&lt;/em&gt; as needed
* such as when passed arrays are null or offsets are invalid.&lt;/li&gt;
* &lt;li&gt;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.&lt;/li&gt;
* &lt;/ul&gt;
* v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~&lt;lt; 40 bytes).&lt;/li&gt;
* 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:
* &lt;ol&gt;
* The default is RFC3548 format.&lt;/li&gt;
* 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&lt;/li&gt;
* 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.
* <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>
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).</li>
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the
* encoded data was a single byte.</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 (int>s that you "OR" together).</li>
* v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using decode( String s, boolean gzipCompressed ).</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>
* 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>
* v1.4 - Added helper methods to read/write files.</li>
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</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>
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>
* I am placing this code in the Public Domain. Do with it as you will.
* This software comes with no guarantees or warranties but with
* plenty of well-wishing instead!
* Please visit http://iharder.net/base64 periodically to check for updates or to contribute improvements.
* */

@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
No license file was found, but licenses were detected in source scan.

/**
 * 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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1.748 gdbm 1.18.1

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1.753 jopt-simple 4.6
1.753.1 Available under license :

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1.754 artemis-jms-client 2.10.1

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1.755 nicolai86-scaleway-sdk 1.10.2-
0.20180628010248-798f60e20bb2
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This is the Debian GNU/Linux package sensible-utils.

It is an original Debian package, was maintained by Clint Adams <schizo@debian.org>. It is now maintained by Anibal Monsalve Salazar <anibal@debian.org>.

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1.757 libxml2 2.9.3+dfsg1-1ubuntu0.6

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1.758 certifi 2019.09.11

1.758.1 Available under license:

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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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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.759 makedev 2.3.1-
93ubuntu2~ubuntu16.04.1

1.760 azure-mgmt-storage 10.0.0

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* /opt/cola/permits/1155895470_1619081295.62/0/azure-mgmt-storage-10-0-0-azure-mgmt-storage-10.0.0/azure/mgmt/storage/v2016_01_01/models/_storage_management_client_enums.py
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Metadata-Version: 2.1
Name: azure-mgmt-storage
Version: 10.0.0
Summary: Microsoft Azure Storage 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: 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`

**Breaking changes**

- Operation `FileSharesOperations.list` has a new signature
- Operation `BlobContainersOperations.list` has a new signature

## 5.0.0 (2019-10-21)

**Features**

- Model `AzureFilesIdentityBasedAuthentication` has a new parameter `active_directory_properties`

**Breaking changes**

- Operation `StorageAccountsOperations.list_keys` 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_classOperations` (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](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
## 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

Found in path(s):
* /opt/cola/permits/1155895470_1619081295.62/0/azure-mgmt-storage-10-0-0.zip/azure-mgmt-storage-10.0.0/azure_mgmt_storage.egg-info/PKG-INFO
* /opt/cola/permits/1155895470_1619081295.62/0/azure-mgmt-storage-10-0-0.zip/azure-mgmt-storage-10.0.0/PKG-INFO
1.761 wildfly-clustering-ee-infinispan

19.1.0.Final

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1.762 quartz 2.3.0

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1.767 tacacs-plus 2.6

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 */

Found in path(s):
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/MultipleOfValidator.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/MinLengthValidator.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/TypeValidator.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/uri/URISchemeFetcher.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/DependenciesValidator.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/NotValidator.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/EnumValidator.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/PatternValidator.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/RefValidator.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/OneOfValidator.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-5-7-sources-jar/com/networknt/schema/uri/URIFileFetcher.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-5-7-sources-jar/com/networknt/schema/uri/URIFileFetcher.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-5-7-sources-jar/com/networknt/schema/uri/URIFileFetcher.java
jar/com/networknt/schema/AbstractFormat.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-
jar/com/networknt/schema/ReadOnlyValidator.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-
jar/com/networknt/schema/uri/URLFactory.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-
jar/com/networknt/schema/SpecVersionDetector.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-
jar/com/networknt/schema/ErrorMessageType.java

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* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-
jar/com/networknt/schema/format/RegexValidator.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-
jar/com/networknt/schema/format/InetAddressValidator.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-
jar/com/networknt/schema/format/DomainValidator.java
* /opt/cola/permits/1265909958_1643966285.76/0/json-schema-validator-1-0-57-sources-
jar/com/networknt/schema/format/EmailValidator.java

1.769 icu 66

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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

## 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: $(srcdir)/%.c
@echo "generating dependency information for "$<"
@$(SHELL) -ec "$\(GEN_DEPS.c\) $< \n| sed \"'/\(.*\\.o\) [ :]'/ \"$@ \n\[ -s $@ \] || rm -f $@' %.d: $(srcdir)/%.cpp
@echo "generating dependency information for "$<"
@$(SHELL) -ec "$\(GEN_DEPS.cc\) $< \n| sed \"'/\(.*\\.o\) [ :]'/ \"$@ \n\[ -s $@ \] || 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

1.770 boto3 1.17.45

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1.772 wildfly-elytron-auth-server-deprecated

1.11.4.Final

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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>
 * <p>
 * <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES );</code>
 * </p>
 * <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 encodeFileToFlie and decodeFileToFlie 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:
 * </ul>
* 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. 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.

* v1.5.1 - Fixed bug when decompressing and decoding to a byte[].

* v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams.

* 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 http://iharder.net/base64 periodically to check for updates or to contribute improvements.

* @author Robert Harder

* @author rob@iharder.net
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Changes and bug fixes all over the place.

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Assigns Past and Future Changes
bradh@frogmouth.net
(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
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)
LIBGCRYPT    Werner Dittmann  2009-05-20  
Assigns Past and Future Changes  
werner.dittmann@t-online.de  
(mpi/amd64, tests/mpitest.c)

GNUPG    David Shaw  
Assigns past and future changes.  
dshaw@jabberwocky.com  
(cipher/camellia-glue.c and related stuff)

LIBGCRYPT    Andrey Jivsov  2010-12-09  
Assigns Past and Future Changes  
openpgp@brainhub.org  
(cipher/ecc.c and related files)

LIBGCRYPT    Ulrich MÅ¼ller  2012-02-15  
Assigns Past and Future Changes  
ulm@gentoo.org  
(Changes to cipher/idea.c and related files)

LIBGCRYPT    Vladimir Serbinenko  2012-04-26  
Assigns Past and Future Changes  
phcoder@gmail.com  
(cipher/serpent.c)

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Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

The files cipher/rndunix.c and cipher/rndw32.c are based on those files from Cryptlib. Copyright Peter Gutmann, Paul Kendall, and Chris Wedgwood 1996-1999.
The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

The implementation of the Camellia cipher has been taken from the original NTT provided GPL source.

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DomainControllerData() { public DomainControllerData(String protocol, String host, int port) { public DomainControllerData() { public DomainControllerData(String protocol, String host, int port) {

DomainSlaveHandler(final Map<String, ProxyController> hostProxies,

DomainRolloutStepHandler(final Map<String, ProxyController> hostProxies,

DomainControllerData() { public DomainControllerData(String protocol, String host, int port) {

DomainSlaveHandler(final Map<String, ProxyController> hostProxies,

DomainRolloutStepHandler(final Map<String, ProxyController> hostProxies,

DomainControllerData() { public DomainControllerData(String protocol, String host, int port) {

DomainSlaveHandler(final Map<String, ProxyController> hostProxies,

DomainRolloutStepHandler(final Map<String, ProxyController> hostProxies,'
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DomainIncludesValidationWriteAttributeHandler(ATTRIBUTEDefinitions... attributeDefinitions) {'

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DomainXml(final ModuleLoader loader, ExecutorService executorService, ExtensionRegistry extensionRegistry) {'

DomainTransactionalProtocolOperationHandler(TransactionalOperationExecutor executor,
ManagementChannelAssociation channelAssociation,'

DomainRootDefinition('}

DomainControllerInfoAccessors(LocalHostControllerInfoImpl hostControllerInfo) {'

DomainControllerManagementInterface(int port, String address, Protocol protocol) {'
1.791 neo4j-id-generator 4.1.7

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Upstream-Name: shim
Upstream-Contact: Matthew Garrett <mjg@redhat.com>
Source: https://github.com/mjg59/shim.git

Files: *
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1.793 urllib3 1.25.6

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

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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

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  * 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

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  * 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

* 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.jerdonek@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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1.803 libpcap 1.9.1

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* /opt/cola/permits/1260753342_1643213326.89/0/netty-resolver-4-1-51-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1260753342_1643213326.89/0/netty-resolver-4-1-51-final-sources-jar/io/netty/resolver/CompositeNameResolver.java

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* /opt/cola/permits/1260753342_1643213326.89/0/netty-resolver-4-1-51-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
1.811 openssl 1.0.2l

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1.831 hibernate-validator 6.0.18.Final

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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/constraints/Currency.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/constraints/ModCheck.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/xml/mapping/MappingXmlParser.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/engine/valueextraction/OptionalDoubleValueExtractor.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/util/privilegedactions/package-info.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/metadata/aggregated/rule/MethodConfigurationRule.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/AbstractFutureOrPresentEpochBasedValidator.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/NegativeValidatorForDouble.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/metadata/facets/Validatable.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/spi/group/package-info.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/engine/messageinterpolation/package-info.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/AbstractPastOrPresentInstantBasedValidator.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/EANValidator.java
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Found in path(s):
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-configuration-1.0.xsd
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-mapping-2.0.xsd
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-configuration-1.1.xsd
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-configuration-2.0.xsd
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-mapping-1.1.xsd
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-mapping-1.0.xsd

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 */
/**
* <p>
* 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 <code>javax.validation.ParameterNameProvider</code>. By default, <code>@arg0</code>, <code>@arg1</code> etc. will be used as parameter names.

The following listing shows an example using the JavaScript engine which comes with the JDK:

```
@ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
public void createEvent(Date start, Date end) { ... }
```

Can be specified on any method or constructor.

@author Gunnar Morling

Hibernate Validator, declare and validate application constraints

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Retrieves constraint related meta data for the parameters of the given executable.

@executable The executable of interest.

@return A list with parameter meta data for the given executable.

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```
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jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/util/TypeHelper.java

1.832 openjdk-jre 1.8.0u275
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### xwd utility
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fvt

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video/x-ms-wvxwvx

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video/x-sgi-moviemovie

video/x-smvsmv
	x-conference/x-cooltalkice

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jar/org/springframework/web/context/ConfigurableWebApplicationContext.java
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jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java
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*/opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-
jar/org/springframework/web/jsf/FacesContextUtils.java

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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}
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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
*/

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* /opt/cola/permits/1141637011_1615091335.54/0/spring-orm-5-1-17-release-sources-jar/org/springframework/orm/hibernate5/SpringBeanContainer.java

1.842 grok 6.8.10
1.842.1 Available under license :
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Found in path(s):
* /opt/cola/permits/1101137264_1603146402.63/0/grok-6-8-10-sources-
jar/org/elasticsearch/grok/ThreadWatchdog.java
* /opt/cola/permits/1101137264_1603146402.63/0/grok-6-8-10-sources-
jar/org/elasticsearch/grok/GrokMatchGroup.java
* /opt/cola/permits/1101137264_1603146402.63/0/grok-6-8-10-sources-jar/org/elasticsearch/grok/Grok.java

1.843 newt 0.52.18 1ubuntu2
1.843.1 Available under license :
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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 <ezanard@debian.org>, from sources obtained from:
Recent upstream versions can be found at: http://fedora.redhat.com/

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1.844 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
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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
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
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/PKG-INFO
* /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/)
[![Coverage Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)
[![GitHub license](https://img.shields.io/github/license/etingof/pyasn1.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:

```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.
>>> 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
>>> 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
```
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}
```
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
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 [documentation](http://snmplabs.com/pyasn1/), 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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Found in path(s):
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/README.md
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
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ASN.1 library for Python

.. toctree:
:maxdepth: 1

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.

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/protocol-buffers>`_
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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
-------------

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::
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/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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Getting help
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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.

Found in path(s):
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

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1.845 curator-client 5.1.0

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.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 void addTag(Taglet paramTaglet, Tag paramTag, Map paramMap) {
        if (paramTag.getName().equals(HEADER)) {
            StringBuilder sb = new StringBuilder();
            sb.append(paramTag.getValue());
            sb.append(" ");
            sb.append(NAME);
            sb.append("; ");
            sb.append(paramTag.getValue());
            sb.append(" ");
            sb.append(paramMap.get("copyright"));
            paramTag.setValue(sb.toString());
        }
    }

    public void processTag(Taglet paramTaglet, Tag paramTag, Map paramMap) {
        if (paramTag.getName().equals(HEADER)) {
            StringBuilder sb = new StringBuilder();
            sb.append(paramTag.getValue());
            sb.append(" ");
            sb.append(NAME);
            sb.append("; ");
            sb.append(paramTag.getValue());
            sb.append(" ");
            sb.append(paramMap.get("copyright"));
            paramTag.setValue(sb.toString());
        }
    }

    public void removeTag(Taglet paramTaglet, Tag paramTag, Map paramMap) {
        if (paramTag.getName().equals(HEADER)) {
            StringBuilder sb = new StringBuilder();
            sb.append(paramTag.getValue());
            sb.append(" ");
            sb.append(NAME);
            sb.append("; ");
            sb.append(paramTag.getValue());
            sb.append(" ");
            sb.append(paramMap.get("copyright"));
            paramTag.setValue(sb.toString());
        }
    }
}

```
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) {
            boolean haveValidTag = false;
            for (int i = 0; i < tags.length && !haveValidTag; ++i) {

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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 © " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}
}

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#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 = -563657022231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;

public:
static ::java::lang::Class class$;
};

@endif // __java_security_Permission__

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obligated to do so. If you do not wish to do so, delete this
exception statement from your version. */

package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;
/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @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;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
this.name = name;

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
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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#!/usr/bin/python
#
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# 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 + '
')
        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
            'alocal.m4',
        )
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\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 FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',
# Skip imported texinfo files.
'texinfo.tex',
})

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\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

'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoldoptions.m4',
'ltobsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',
# Open Source Used In SDWan 20.9.1 9488

Open Source Used In SDWan 20.9.1 9488
# 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+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 (self.year_re + self.year_re + self.continuation_re + self.continuation_re + self.copyright_re)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
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'
                    lines.append (line)
                    line = next_line
                    self.errors.ok()
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):
        # 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):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...
' % sys.argv[0])
        Options:
        'ui' % sys.argv[0])
format = '%-15s %s
'
for (what, help) in self.option_help:
    sys.stdout.write (format % (what, help))
sys.stdout.write (''nDirectories:'n')

format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
    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',

    # 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.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        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_fsfs = ['Free Software Foundation, Inc.',
                      'Free Software Foundation',
                      'Free Software Foundation Inc.',
                      'Free Software Foundation, Inc',
                      'The Free Software Foundation',
                      'The Free Software Foundation, Inc.',
                      'Software Foundation, Inc.',
                      'ARM',
                      'AdaCore',
                      'Ami Tavory and Vladimir Dreizin, IBM-HRL.',
                      'Cavium Networks.',
                      'Faraday Technology Corp.',
                      'Florida State University',
                      'Greg Colvin and Beman Dawes.',
                      'Hewlett-Packard Company',
                      'Information Technology Industry Council.',
                      'James Theiler, Brian Gough',
                      'Makoto Matsumoto and Takuji Nishimura,',
                      'National Research Council of Canada.',
                      'Peter Dimov and Multi Media Ltd.',
                      'Peter Dimov',
                      'Pipeline Associates, Inc.',
                      'Regents of the University of California.',
                      'Silicon Graphics Computer Systems, Inc.',
                      'Silicon Graphics',
                      'Stephen L. Moshier',
                      'Sun Microsystems, Inc. All rights reserved.',
                      'The Go Authors. All rights reserved.'])
self.add_external_author('The Go Authors.
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('libc', LibCppFilter())
        self.add_dir('libdecmnum')
    # librff 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')
    # libsanitiser is imported from upstream.
        self.add_dir('libssp')
        self.add_dir('libstdc++-v3', LibStdCxxFilter())
        self.add_dir('lto-plugin')
    # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'libada',
            'libatomic',
            'libbacktrace',
            'libc',]
'libdecnumber',
'libgcc',
'libgfortran',
'libgomp',
'libitm',
'libmudflap',
'libobjc',
'libstdc++-v3',
]

GCCCmdLine().main()

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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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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
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The source code is distributed under the GPL General Public License version 3.

with the addition under section 7 of an exception described in the GCC Runtime Library Exception, version 3.1 as follows (or see the file COPYING.RUNTIME):

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Version 3.1.31 March 2009

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ConstantValue "copyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverview	inPackageinTypeisInlineTagregister(Ljava/util/Map;)V
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tagletMapLjava/util/Map;copyrightTaglettoString)(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Tag
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BHIappend,(Ljava/lang/String;)Ljava/lang/StringBuffer;Ljava/lang/StringBufferN&lt;dt&gt;&lt;i&gt;Copyright &amp;#169;
KPQ(Ljava/lang/String;)V
KSIT-(Ljava/lang/String:)Ljava/lang/StringBuilder;V&lt;/i&gt;&lt;/dt&gt;
KX0Z&lt;/dl&gt;
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!
/*1-
7;.:?.C,G,K,O!,S"#QY$SL*+%=WWXY-."/01A
```
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<thead>
<tr>
<th>Program</th>
<th>Directory</th>
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<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
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@ifex
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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

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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)))

#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 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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1[java/security/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDJ
ConstantValue?(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;)VCode
()VLineNumberTableLocalVariableTablethisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)V
! java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
%!&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/SecurityManager:implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()IgetName()Ljava/lang/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilder
:
:>?@append"(C)Lgnu/java/lang/CPStringBuilder;
BCDgetClass()Ljava/lang/Class;
FHGjava/lang/Class45
:J?K3(Ljava/lang/String;);Lgnu/java/lang/CPStringBuilder;
H
N65P
RTSjava/lang/String01
:V95stringLgnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
**.*[]^

// DO NOT EDIT THIS FILE - it is machine generated -*. c++ *.-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__
#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
    namespace security
    {
        namespace acl
        {
            class Permission;
        }
    }
}

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__

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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 Criddig (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.
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 interface provides information about a permission that can be
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 * @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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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
  namespace gnu
  {
    namespace javax
    {
      namespace sound
      {
        class AudioSecurityManager$Permission;
      }
class gnu::javax::sound::AudioSecurityManager$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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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
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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
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Library" must include any data and utility programs needed for
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<one line to give the library'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.

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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.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

----------
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

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
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

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 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 th=
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictate to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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
=20
------------------------------------------------------------
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
>=20
> 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
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> released under. This wasn't actually a license change, just a
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> GPL-2 ... it was a modified artistic license ... i didn't notice the
> license
> change until it was mentioned in the latest notes.
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> 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.
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
> 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.
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> I'd also suggest the LGPL, for the reason you noted above. Alternately,
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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-ipv5.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 l91Gxtp020623
          for <nneul@umr.edu>; Mon, 01 Oct 2007 11:59:55 -0000
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
          by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734E311
          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>
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

---

1.859 logrus 1.4.2
1.859.1 Available under license:
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1.861 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017

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1.862 xauth 1.0.9-1ubuntu2

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1.864 wildfly-jmx 11.1.1.Final
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Implementation-Version: 3.0.5
Built-By: build
Bnd-LastModified: 1486772850426
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: com.sun.istack
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1.868 urllib3 1.26.2
1.868.1 Available under license :
# Contributions to the urllib3 project

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

## Contributors
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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
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  * Basic-authenticated HTTPSConectionPool (merged into make_headers)
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* Python 3 support

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* 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``.

* 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>
  * Bug fix 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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Bundle-SymbolicName: jakarta.enterprise.cdi-api
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.enterprise.util",javax.inject",javax.enterprise.context.control;version="2.0";uses="javax.enterprise.context",javax.inject",javax.enterprise.context.spi;version="2.0",javax.enterprise.event;version="2.0";uses="javax.enterprise.util",javax.enterprise.inject;version="2.0";uses="javax.enterprise.context",javax.enterprise.util",javax.inject",javax.enterprise.inject.literal;version="2.0";uses="javax.enterprise.util",javax.event",javax.enterprise.inject.se;version="2.0";uses="javax.enterprise.context",javax.enterprise.inject.spi;version="2.0";uses="javax.el",javax.enterprise.context.context.spi;version="2.0",javax.enterprise.event,javax.enterprise.inject,javax.enterprise.inject.spi.configurator,javax.interceptor",javax.enterprise.inject.se;version="2.0";uses="javax.enterprise.context.context.spi;version="2.0",javax.enterprise.event,javax.enterprise.inject,javax.enterprise.inject.spi.configurator,javax.interceptor",javax.enterprise.inject.se;version="2.0";uses="javax.enterprise.context.context.spi;version="2.0",javax.enterprise.event,javax.enterprise.inject,javax.enterprise.inject.spi.configurator,javax.interceptor",javax.enterprise.inject.se;version="2.0"
Bundle-Name: Jakarta CDI
Bundle-Version: 2.0.2
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_202
1.873 acl 2.2.53

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1.894 p11-kit 0.23.15-2+deb10u1

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1.895 postgresql 9.5

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1.896 wildfly-clustering-jgroups-extension

19.1.0.Final

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Annotations:

- BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4e8d59db161d4
- 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

Path(s):

- /opt/cola/permits/1258903337_1643118323.99/0/netty-tcnative-boringssl-static-2.0.30-final-sources-jar/META-INF/MANIFEST.MF

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jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
* /opt/cola/permits/1258903337_1643118323.99/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/SSLTask.java
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jar/io/netty/internal/tcnative/CertificateCallbackTask.java
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1.904 libsodium 1.0.18

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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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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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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:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
------------

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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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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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1.914 kmod 25

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H_
#define COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned intnfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLEERR0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#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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  *
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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

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int setresuid(uid_t, uid_t, uid_t);
#endif

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*/

#ifndef _BSD_WAITPID_H

#endif

Open Source Used In SDWan 20.9.1 10005
#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 */

1.917 traceroute 2.0.21
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### 1.918 wss4j-ws-security-stax 2.2.5

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* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/validators/NoValidator.java

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 */

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* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/validators/ParameterValidator2.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/validators/ParameterValueValidator.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/validators/NoValidator.java
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* /opt/cola/permits/1260753973_1643213186.77/0/wildfly-elytron-mechanism-gssapi-1-11-4-final-sources.jar/org/wildfly/security/mechanism/gssapi/ElytronMessages.java

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* /opt/cola/permits/1260753973_1643213186.77/0/wildfly-elytron-mechanism-gssapi-1-11-4-final-sources-
jar/org/wildfly/security/mechanism/gssapi/GSSCredentialSecurityFactory.java

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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4.jar/javassist/compiler/NoFieldException.java
* /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/class/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/compiler/SyntaxError.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4.jar/javassist/tools/reflect/Reflection.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/tools/reflect/CannotReflectException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4.jar/javassist/compiler/JavassistSyntaxException.java
* /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/class/annotation/AnnotationImpl.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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jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/URLClassPath.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Loader.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/StackMapTable.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/HotSwapAgent.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassMap.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstantAttribute.java
* /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/util/proxy/SerializedProxy.java

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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
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  jar/javassist/bytecode/annotation/AnnotationMemberValue.java
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  jar/javassist/bytecode/annotation/LongMemberValue.java
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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.salaranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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1.977 curator-framework 5.1.0

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Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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1.980 transport-netty4-client 6.8.10

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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/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java
 * /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
 * /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
 * /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
 * /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
 * /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
 * /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/EpollChannelOption.java
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 */
/**
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 * 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.
 */
/**
 * Set the {@code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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  headers:
    Accept:
    - application/json
    Accept-Encoding:
    - gzip, deflate
    Connection:
    - keep-alive
    Content-Length:
    - '288'
    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
A web request is being made to the Azure Management API to retrieve policy definitions. The response includes a list of policy definitions, including:

1. **Microsoft Managed Control 1599 - Developer Configuration Management | Software / Firmware Integrity Verification**
   - Description: Microsoft implements this System and Services Acquisition control.
   - Mode: Indexed
   - Effect: Audit

2. **Audit virtual machines without disaster recovery configured**
   - Description: Audit virtual machines which do not have disaster recovery configured.
   - Mode: All

3. **[Deprecated]: Audit Web Sockets state for a Function App**
   - Description: The Web Sockets protocol is vulnerable to different types of security threats.
   - Effect: DisableWebSockets (AuditIfNotExists)

Use of Web Sockets within a Function app must be carefully reviewed and set to DisableWebSockets to avoid potential security risks.
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", "type": "Microsoft.Authorization/policyDefinitions", "name": "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", "type": "Microsoft.Authorization/policyDefinitions", "name": "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'')]", "details": {"type": "Microsoft.RecoveryServices/backupprotecteditems" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/013e242c-8828-4970-87b3-ab247555486d", "type": "Microsoft.Authorization/policyDefinitions", "name": "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-c3b8dcef5147", "type": "Microsoft.Authorization/policyDefinitions", "name": "01524fa8-4555-48ce-ba5f-c3b8dcef5147", "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": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, "value": "false", "equals": "true" } }, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/01910bab-8639-4bd0-84ef-10459"
Managed Control 1285 - Telecommunications Services | Provider Contingency Plan

Microsoft implements this Contingency Planning control, metadata:

- version: "1.0.0"
- category: "Regulatory Compliance"
- additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1285"
- 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/01f7726b-db54-45c2-bcb5-9bd7a43796ee"
- type: "Microsoft.Authorization/policyDefinitions"
- name: "01f7726b-db54-45c2-bcb5-9bd7a43796ee"
- properties:
  - displayName: "Microsoft Managed Control 1285 - Telecommunications Services | Provider Contingency Plan"
  - policyType: "Static"
  - mode: "Indexed"
  - description: "Microsoft implements this Contingency Planning control"
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", "equal": true, "value": false}, {"field": "type", "equal": true} ] }, "then": {"effect": "audit" }, "id": "providers/Microsoft.Authorization/policyDefinitions/03752212-103c-4ab8-a306-7e813022ca9d" }, "properties": {"displayName": "Microsoft 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." }, "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" } }, "id": "providers/Microsoft.Authorization/policyDefinitions/037eea7a-bd0a-46c5-9a66-03aea78705d3" }, "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.CognitiveServices/accounts"], "value": true, "equal": true} ] }, "then": {"effect": "audit" }, "id": "providers/Microsoft.Authorization/policyDefinitions/037eea7a-bd0a-46c5-9a66-03aea78705d3" } }, "properties": {"displayName": "Microsoft Managed Control 1474 - Emergency Power | Long-Term Alternate Power Supply - Minimal Operational Capability", "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/ACF1474" }, "policyRule": "{"if": {"allOf": [{"field": "type", "in": ["Microsoft.CognitiveServices/accounts"], "value": true, "equal": true} ] }, "then": {"effect": "audit" }, "id": "providers/Microsoft.Authorization/policyDefinitions/03996055-37a4-45a5-8b70-3f1caa45f87d" } }, "properties": {"displayName": "Microsoft Managed Control 1229 - Information System Component Inventory | No Duplicate Accounting Of Components" } }
Managed Control 1227 - Information System Component Inventory | Automated
Unauthorized Component Detection", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1227" }, "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/03b78f5e-4877-4303-b0f4-eb6583f25768" }, {"properties": {"displayName": "Microsoft Managed Control 1361 - Incident Response control", "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/03ed3be1-7276-4452-9a5d-e4168565ac67" }, {"properties": {"displayName": "Microsoft Managed Control 1594 - 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/ACF1594" }, "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/042ba2a1-8bb8-45f4-b080-c78cf62b90e9" }, {"properties": {"displayName": "Azure Cosmos DB allowed locations", "policyType": "BuiltIn", "mode": "Indexed", "description": "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.", "metadata": {"version": "1.0.0", "category": "Cosmos DB" }, "parameters": {"listOfAllowedLocations": {"type": "Array", "metadata": {"displayName": "Allowed locations", "description": "The list of locations that can be specified when deploying Azure Cosmos DB resources." }, "strongType": "location" } }, "policyEffect": {"type": "String", "metadata": {"displayName": "Policy Effect", "description": "The desired effect of the policy." }, "allowedValues": ["deny", "audit", "disabled"], "defaultValue": "deny" }, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.DocumentDB/databaseAccounts"}, {"count": {"field": "Microsoft.DocumentDB/databaseAccounts/Locations[*].locationName"}, "where": {"value": replace(toLower(first(field("Microsoft.DocumentDB/databaseAccounts/Locations[*].locationName"))), "", "")}, "notEquals": {"length(field("Microsoft.DocumentDB/databaseAccounts/Locations[*].locationName"))"}, "then": {"effect": {"parameters("policyEffect")"}, "id": "/providers/Microsoft.Authorization/policyDefinitions/0473574d-2d43-4217-aefe-941fcd7e684" }, {"properties": {"displayName": "SQL managed instance TDE protector should be encrypted with your own key", "policyType": "BuiltIn", "mode": "Indexed", "description": "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

Network traffic data collection agent should be installed on Linux virtual machines

Effect: Enable or disable Dependency Agent for Linux VMs monitoring

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: Enable or disable the execution of the policy

Deploy Diagnostic Settings for Service Bus to Log Analytics workspace, 

- **policyType**: BuiltIn
- **mode**: Indexed
- **description**: Deploys the diagnostic settings for Service Bus to stream to a regional Log Analytics workspace when any Service Bus which is missing this diagnostic settings is created or updated.

**Parameter Details**

- **effect**: Type: String, Metadata: 

- **profileName**: Type: String, Metadata: 

**Policy Rule**

- **if**: 

- **then**: 

**Deployment Template**

- **resourceName**: 

- **location**: 

- **logAnalytics**: 

- **metricsEnabled**: 

- **logsEnabled**: 

**Outputs**

- **workspaceId**: 

**Role Definitions**

- **id**: /providers/Microsoft.Authorization/policyDefinitions/04d53d87-841c-4f23-8a5b-21564380b55e

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30193528f602
21564380b55e"},{"properties":{"displayName":"Microsoft Managed Control 1572 - 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/ACF1572"},"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/04f5fb00-80bb-48a9-a75b-4cb4d4e97e36","type":"Microsoft.Authorization/policyDefinitions","name":"04f5fb00-80bb-48a9-a75b-4cb4d4e97e36"},"properties":{"displayName":"Deploy Log Analytics agent for Linux VMs","policyType":"BuiltIn","mode":"Indexed","description":"Deploy Log Analytics 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":{"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},"listOfImageIdToInclude":{"type":"Array","metadata":{"displayName":"Optional: List of VM images that have supported Linux OS to add to scope","description":"Example value:
variables("vmExtensionName")], "type": "Microsoft.Compute/virtualMachines/extensions", "location": [parameters("location")], "apiVersion": "2018-06-01", "properties": {
  "publisher": variables("vmExtensionPublisher"),
  "type": [variables("vmExtensionType")],
  "typeHandlerVersion": [variables("vmExtensionTypeHandlerVersion")],
  "autoUpgradeMinorVersion": true,
  "settings": {
    "workspaceId": [reference(parameters("logAnalytics"), "2015-03-20").customerId],
    "stopOnMultipleConnections": true,
    "protectedSettings": {
      "workspaceKey": [listKeys(parameters("logAnalytics"), "2015-03-20").primarySharedKey]
    }
  }
}, "outputs": {
  "policy": {
    "type": "string",
    "value": [concat("Enabled extension for VM ", parameters("vmName")), "")
  }
}}}
], "outputs": {
  "policy": {
    "type": "string",
    "value": [concat("Enabled extension for VM ", parameters("vmName")), "")
  }
}}}
], "outputs": {
  "policy": {
    "type": "string",
    "value": [concat("Enabled extension for VM ", parameters("vmName")), "")
  }
}}}
], "outputs": {
  "policy": {
    "type": "string",
    "value": [concat("Enabled extension for VM ", parameters("vmName")), "")
  }
}}}
], "outputs": {
  "policy": {
    "type": "string",
    "value": [concat("Enabled extension for VM ", parameters("vmName")), "")
  }
}}}
], "outputs": {
  "policy": {
    "type": "string",
    "value": [concat("Enabled extension for VM ", parameters("vmName")), "")
  }
}}}
]}}}}

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### Microsoft Managed Control 1331 - Authenticator Management | Password-Based Authentication

This control implements this Identification and Authentication control.

**Policy Rule**

- **If**:
  - value: false,
  - equals: "true"
- **Then**:
  - effect: "audit"

**Managed Control 1331 - Authenticator Management**

This policy audits PostgreSQL servers not configured to use a private endpoint. For more details, visit [https://aka.ms/pgprivatelink](https://aka.ms/pgprivatelink).
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.

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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.

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Microsoft 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.
Managed Control 1640 - Transmission Confidentiality And Integrity

Managed Control 1420 - Maintenance Personnel

Managed Control 1658 - Secure Name / Address Resolution Service (Recursive Or Caching Resolver)

Managed Control 1688 - Information System Monitoring

Managed Control 1332 - Authenticator Management | Password-Based Authentication

Managed Control 1332 - Authenticator Management | Password-Based Authentication

Managed Control 1688 - Information System Monitoring

Managed Control 1658 - Secure Name / Address Resolution Service (Recursive Or Caching Resolver)

Managed Control 1420 - Maintenance Personnel

Managed Control 1640 - Transmission Confidentiality And Integrity
Managed Control 1455 - Physical Access

Implementation of this Physical and Environmental Protection control mitigates the risk of physical access to resources.

Audit SQL DB Level Audit Setting

This policy audits SQL databases at the DB level for audit settings.

Audit VMs that do not use managed disks

This policy audits VMs that do not use managed disks.

Managed Control 1366 - Incident Handling [Information Correlation]

Implementation of this Incident Response control mitigates the risk of information correlation failures.
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":[]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/07557aa0-e02f-4460-9a81-8ec2f6d601a","type":"Microsoft.Authorization/policyDefinitions","name":"07557aa0-e02f-4460-9a81-8ec2f6d601a"},{"properties":{"displayName":"CORS should not allow every resource to access your Function App","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":{"version":"1.0.0","category":"App Service"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":[]},"details":{}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/0820b7b9-23aa-4725-a1ce-ae4558718e5","type":"Microsoft.Authorization/policyDefinitions","name":"0820b7b9-23aa-4725-a1ce-ae4558718e5"},{"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.
,"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 ID."},"listOfImageIdToInclude":{"type":"Array","metadata":{"displayName":"Optional: List of VM images that have supported Windows OS to add to scope"},"listOfImageIdToInclude":[]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/0820b7b9-23aa-4725-a1ce-ae4558718e5"}
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"
      },
      "parameters": {
        "effect": {
          "type": "String",
          "metadata": {
            "displayName": "[Deprecated]: 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"
          }
        },
        "logAnalytics": {
          "type": "String",
          "metadata": {
            "displayName": "Log Analytics workspace"
          }
        },
        "metricsEnabled": {
          "type": "String",
          "metadata": {
            "displayName": "Enable metrics"
          }
        },
        "logsEnabled": {
          "type": "String",
          "metadata": {
            "displayName": "Enable logs"
          }
        }
      }
    }
  }}
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-cb4e-40b8-bcfc-e573d0c772ca", "/providers/microsoft.authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3-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.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
          },
          "logs": {
            "category": "OperationLogs",
            "enabled": ["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')]
            }
          }
        }
      }],
      "outputs": {}
    }
  },
  "parameters": {
    "resourceName": {"value": [field('name')]},
    "location": {"value": [field('location')]},
    "logAnalytics": {"value": [parameters('logAnalytics')]},
    "metricsEnabled": {"value": [parameters('metricsEnabled')]},
    "logsEnabled": {"value": [parameters('logsEnabled')]},
    "profileName": {"value": [parameters('profileName')]}},
  "id": "/providers/Microsoft.Authorization/policyDefinitions/08ba64b8-738f-4918-9686-730d2ed79c7d",
  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "08ba64b8-738f-4918-9686-730d2ed79c7d"
}
"},

"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"
    },
    "location": [parameters('location')],
    "policyRule": {
      "if": {
        "field": "type",
        "equals": "Microsoft.Compute/virtualMachines",
        "then": {
          "effect": ["parameters('effect')"],
          "details": {
            "type": "Microsoft.Security/complianceResults",
            "name": "adaptiveNetworkHardenings",
            "existenceCondition": {"field": ".SecurityCenter/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]}
          },
          "id": "/providers/Microsoft.Authorization/policyDefinitions/08e6af2d-dbb0-460a-bfe9-d5bd474ba9d6",
          "type": "Microsoft.Authorization/policyDefinitions",
          "name": "08e6af2d-dbb0-460a-bfe9-d5bd474ba9d6"
        }
      }
    }
  }
}
"},

"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.",
  "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"
    },
    "location": [parameters('location')],
    "policyRule": {
      "if": {
        "field": "type",
        "equals": "Microsoft.Resources/subscriptions",
        "then": {
          "effect": ["parameters('effect')"],
          "details": {
            "type": "Microsoft.Security/complianceResults",
            "name": "DesignateMoreThanOneOwner",
            "existenceCondition": {
              "field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]
            }
          },
          "id": "/providers/Microsoft.Authorization/policyDefinitions/08e6af2d-dbb0-460a-bfe9-d5bd474ba9d6",
          "type": "Microsoft.Authorization/policyDefinitions",
          "name": "08e6af2d-dbb0-460a-bfe9-d5bd474ba9d6"
        }
      }
    }
  }
}
Managed Control 1159 - Security

Managed Control 1302 - Identification And Authentication (Org. Users) | Network Access To Non-Privileged Accounts

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to a vault in the same location.\nFor 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.\nFor example /subscriptions/<SubscriptionId>/resourceGroups/<resourceGroupName>/providers/Microsoft.RecoveryServices/vau
lts/<VaultName>/backupPolicies/<BackupPolicyName>","strongType":"Microsoft.RecoveryServices/vaults/backup
Policies"}},"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable
or disable the execution of the
policy"},"allowedValues":["deployIfNotExists","auditIfNotExists","disabled"],"defaultValue":"deployIfNotExists"}
},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines"},{"field":"location","
equals":"[parameters(''vaultLocation'')]"},{"anyOf":[{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equal
s":"MicrosoftWindowsServer"},{"field":"Microsoft.Compute/imageOffer","equals":"WindowsServer"},{"field":"M
Microsoft.Compute/imageOffer","equals":"WindowsServerSemiAnnual"},{"field":"Microsoft.Compute/imageSKU
","in":["Datacenter-Core-1709-smalldisk","Datacenter-Core-1709-with-Containers-smalldisk","Datacenter-Core1803-with-Containerssmalldisk"]}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServerHPCPac
k"},{"field":"Microsoft.Compute/imageOffer","equals":"WindowsServerHPCPack"}]},{"allOf":[{"field":"Microsof
t.Compute/imagePublisher","equals":"MicrosoftSQLServer"},{"anyOf":[{"field":"Microsoft.Compute/imageOffer",
osoft.Compute/imageOffer","equals":"MLServerWS2016"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftVisualStudio"},{"field":"
Microsoft.Compute/imageOffer","in":["VisualStudio","Windows"]}]},{"allOf":[{"field":"Microsoft.Compute/image
Publisher","equals":"MicrosoftDynamicsAX"},{"field":"Microsoft.Compute/imageOffer","equals":"Dynamics"},{"f
ield":"Microsoft.Compute/imageSKU","equals":"Pre-Req-AX7-OneboxU8"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"microsoftads"},{"field":"Microsoft.Compute/imageOffer","equals":"windows-data-sciencevm"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsDesktop"},{"field":"
Microsoft.Compute/imageOffer","equals":"Windows10"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"RedHat"},{"field":"Microsoft.Compute/i
mageOffer","in":["RHEL","RHEL-SAPHANA"]},{"anyOf":[{"field":"Microsoft.Compute/imageSKU","like":"6.*"},{"field":"Microsoft.Compute/imageS
KU","like":"7*"}]}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"SUSE"},{"field":"Microsof
t.Compute/imageOffer","in":["SLES","SLES-HPC","SLES-HPC-Priority","SLES-SAP","SLES-SAPBYOS","SLES-Priority","SLES-BYOS","SLES-SAPCAL","SLES-

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Implement this system and communications protection control,

Microsoft Managed Control 1654 - Voice Over Internet Protocol,

Microsoft Managed Control 1402 - Controlled Maintenance | Automated Maintenance,

Microsoft Managed Control 1428 - Media Access,

Audit resource location matches resource group location,

Managed Control 1428 - Media Access,

Managed Control 1402 - Controlled Maintenance | Automated Maintenance Activities,

Microsoft Managed Control 1402 - Controlled Maintenance | Automated Maintenance,

Microsoft Managed Control 1428 - Media Access,

Audit resource location matches 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"
Open Source Used In SDWan

Managed Control 1044 - Unsuccessful Logon Attempts

Managed Control 1253 - Contingency Plan | Resume Essential Missions / Business Functions

Managed Control 1046 - Automatic Account Lock | Purge / Wipe Mobile

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 policy"}, "allowedValues": [{"AuditIfNotExists", "Disabled"}, "defaultValue": "AuditIfNotExists"]}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Security/securityContacts"}, "then": {"effect": ["parameters("effect")"], "details": {"t type": "Microsoft.Security/securityContacts", "existenceCondition": {"field": "Microsoft.Security/securityContacts/alertsToAdmins", "notEquals": "Off"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/0b15565f-aa9e-48ba-8619-45960f2c314d", "name": "0b15565f-aa9e-48ba-8619-45960f2c314d"}, "properties": {"displayName": "Microsoft Managed Control 1046 - Automatic Account Lock | Purge / Wipe Mobile"}}
Device","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1046"},"policyRule ":{"if":{"allOf":[]}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/0b1aa965-7502-41f9-92be-3e2fe7cc392a","type":"Microsoft.Authorization/policyDefinitions","name":"0b1aa965-7502-41f9-92be-3e2fe7cc392a"},"properties":{"displayName":"Microsoft Managed Control 1020 - Account Management | Role-Based Schemes","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1020"},"policyRule ":{"if":{"allOf":[]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/0b291ee8-3140-4cad-beb7-568c077c78ce","type":"Microsoft.Authorization/policyDefinitions","name":"0b291ee8-3140-4cad-beb7-568c077c78ce"},"properties":{"displayName":"Key Vault objects should be recoverable","policyType":"BuiltIn","mode":"Indexed","description":"This policy audits if key vault objects are not recoverable. Soft Delete feature helps to effectively hold the resources for a given retention period (90 days) even after a DELETE operation, while giving the appearance that the object is deleted. When "Purge protection" is on, a vault or an object in deleted state cannot be purged until the retention period of 90 days has passed. These vaults and objects can still be recovered, assuring customers that the retention policy will be followed."},"metadata":{"version":"1.0.0","category":"Key Vault"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"}},"allowedValues":[]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/0b60c0b2-2dc2-4e1c-b5c9-abbed971de53","type":"Microsoft.Authorization/policyDefinitions","name":"0b60c0b2-2dc2-4e1c-b5c9-abbed971de53"},"properties":{"displayName":"Microsoft Managed Control 1115 - Audit Review, Analysis, And Reporting","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/ACF1115"},"policyRule ":{"if":{"allOf":[]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/0b653845-2ad9-4e09-a4f3-5a7c1d78353d","type":"Microsoft.Authorization/policyDefinitions","name":"0b653845-2ad9-4e09-a4f3-5a7c1d78353d"},"properties":{"displayName":"Azure Cosmos DB throughput should be limited","policyType":"BuiltIn","mode":"All","description":"This policy enables you to restrict the maximum throughput your organization can specify when creating Azure Cosmos DB databases and containers through the resource provider. It blocks the creation of autoscale"}
resources.

parameters:
  - throughputMax:
    type: Integer
    displayName: Max RU's
    description: The maximum throughput (RU/s) that can be assigned to a container via the Resource Provider during create or update.

effect:
  type: String
  displayName: Policy Effect
  description: The desired effect of the policy.

allowedValues:
- audit
- deny
- disabled

defaultValue: deny

policyRule:
  if:
    allOf:
      - anyOf:
        - field: Microsoft.DocumentDB/databaseAccounts/*/throughputSettings
          type: like
          value: Microsoft.DocumentDB/databaseAccounts/sqlDatabases
          in:
            - Microsoft.DocumentDB/databaseAccounts/sqlDatabases
          greater: parameters('throughputMax')
          value: true
          not: true
          exists: true
          greater: parameters('throughputMax')
      - anyOf:
          value: true
          not: true
          exists: true
          greater: parameters('throughputMax')
      - anyOf:
          value: false
          not: true
          exists: true
          greater: parameters('throughputMax')

int(field("Microsoft.DocumentDB/databaseAccounts/sqlDatabases/options.throughput") - 1)
int(field("Microsoft.DocumentDB/databaseAccounts/cassandraKeyspaces/tables/options.throughput") - 1)
int(field("Microsoft.DocumentDB/databaseAccounts/cassandraKeyspaces/options.throughput") - 1)
int(field("Microsoft.DocumentDB/databaseAccounts/gremlinDatabases/options.throughput") - 1)

ers("throughputMax")")},
  "field": "Microsoft.DocumentDB/databaseAccounts/gremlinDatabases/options",
  "containsKey": "ProvisionedThroughputSettings",
  "greater": "[parameters("throughputMax")]",
  "exists": "true",
  "value": "[if(equals(field("Microsoft.DocumentDB/databaseAccounts/gremlinDatabases/graphs/options.throughput")), 0, int(field("Microsoft.DocumentDB/databaseAccounts/gremlinDatabases/graphs/options.throughput"))))],
  "greater": "[parameters("throughputMax")]",
  "containsKey": "ProvisionedThroughputSettings",
  "greater": "[parameters("throughputMax")]",
  "exists": "true",
  "value": "[if(equals(field("Microsoft.DocumentDB/databaseAccounts/gremlinDatabases/mongodbDatabases/options.throughput")), 0, int(field("Microsoft.DocumentDB/databaseAccounts/mongodbDatabases/options.throughput"))))],
  "greater": "[parameters("throughputMax")]",
  "field": "Microsoft.DocumentDB/databaseAccounts/mongodbDatabases/options",
  "containsKey": "ProvisionedThroughputSettings",
  "greater": "[parameters("throughputMax")]",
  "exists": "true",
  "value": "[if(equals(field("Microsoft.DocumentDB/databaseAccounts/mongodbDatabases/collections/options.throughput")), 0, int(field("Microsoft.DocumentDB/databaseAccounts/mongodbDatabases/collections/options.throughput"))))],
  "greater": "[parameters("throughputMax")]",
  "containsKey": "ProvisionedThroughputSettings",
  "greater": "[parameters("throughputMax")]",
  "exists": "true",
  "value": "[if(equals(field("Microsoft.DocumentDB/databaseAccounts/tables/options.throughput")), 0, int(field("Microsoft.DocumentDB/databaseAccounts/tables/options.throughput"))))],
  "greater": "[parameters("throughputMax")]",
  "field": "Microsoft.DocumentDB/databaseAccounts/tables/options",
  "containsKey": "ProvisionedThroughputSettings",
  "field": "Microsoft.DocumentDB/databaseAccounts/tables/throughputSettings/default.resource.throughput",
  "greater": "[parameters("throughputMax")]",
  "field": "Microsoft.DocumentDB/databaseAccounts/tables/throughputSettings/default.resource.provisionedThroughputSettings",
  "exists": "true"
],
"then": {
  "effect": "audit"
}
]}
"};

"id": "/providers/Microsoft.Authorization/policyDefinitions/0b7ef78e-a035-4f23-b9bd-aff112a1b1cf",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "0b7ef78e-a035-4f23-b9bd-aff112a1b1cf",
"properties": {
  "displayName": "Microsoft Managed Control 1239 - User-Installed 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/ACF1239",
    "policyRule": {
      "if": 
      "allOf": [
        
        "[field": "type",
        "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]],
        "value": "false",
        "equals": "true"]
        ,
      "then": {"effect": "audit"}
      ]
    }
  }
}
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"}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "*api"}, {"field": "Microsoft.Web/sites/clientCertEnabled", "equals": "false"}]}, "then": {"effect": {"parameters('effect')"}}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/0c192fe8-9cbb-4516-85b3-0ade8bd3886", "type": "Microsoft.Authorization/policyDefinitions", "name": "0c192fe8-9cbb-4516-85b3-0ade8bd3886"}, {"properties": {"displayName": "Microsoft Managed Control 1496 - 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/ACF1496"}, "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/0c9a6127-2f87-46ab-a4fc-0d2a786df1c8", "type": "Microsoft.Authorization/policyDefinitions", "name": "0c9a6127-2f87-46ab-a4fc-0d2a786df1c8"}, {"properties": {"displayName": "SQL server TDE protector should be encrypted with your own key", "policyType": "BuiltIn", "mode": "Indexed", "description": "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.", "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"}}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Sql/servers"}, "then": {"effect": ["parameters('effect')"]}, "details": {"type": "Microsoft.Sql/servers/encryptionProtector", "name": "current", "existenceCondition": {"allOf": [{"field": "Microsoft.Sql/servers/encryptionProtector/serverKeyType", "equals": "AzureKeyVault"}, {"field": "Microsoft.Sql/servers/encryptionProtector/uri", "notEquals": ""}], "field": "Microsoft.Sql/servers/encryptionProtector/uri", "exists": true}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/0d134df8-db83-46fb-ad72-fe0c9428c8dd", "type": "Microsoft.Authorization/policyDefinitions", "name": "0d134df8-db83-46fb-ad72-fe0c9428c8dd"}, {"properties": {"displayName": "Microsoft Managed Control 1518 - 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/ACF1518"}, "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/0d58f734-c052-40e9-8b2f-a1c2bf0b815", "type": "Microsoft.Authorization/policyDefinitions", "name": "0d58f734-c052-40e9-8b2f-a1c2bf0b815"}, {"properties": {"displayName": "Microsoft Managed Control 1713 - Software, Firmware, And Information Integrity | Integrity Checks", "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/ACF1713"
},
"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/0d87c70b-5012-48e9-994b-c70dd4b8def0"
},
"properties": {
  "displayName": "Microsoft Managed Control 1466 - Visitor Access Records",
  "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/ACF1466"
  },
  "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/0d943a9c-a6f1-401f-a792-740cdb09c451"
},
"properties": {
  "displayName": "[Deprecated]: Show audit results from Windows VMs on which Windows Defender Exploit Guard is not enabled",
  "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 Windows Defender Exploit Guard is not enabled. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol",
  "metadata": {
    "version": "1.0.0-deprecated",
    "category": "Guest Configuration",
    "deprecated": 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",
                      "like": "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": [
                    {
                      "anyOf": [
                        {
                          "field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration",
                          "exists": true
                        },
                        {
                          "field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration",
                          "notLike": "2008*"
                        }
                      ]
                    },
                    {
                      "allOf": [
                        {
                          "field": "Microsoft.Compute/imageSKU",
                          "exists": false
                        },
                        {
                          "field": "Microsoft.Compute/imageSKU",
                          "notLike": "2008*"
                        }
                      ]
                    }
                  ]
                }
              ]
            }
          ]
        }
      ]
    }
  },
  "details": {
    "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments",
    "name": "WindowsDefenderExplo"
Managed identity should be used in your Function App,
Geo-redundant backup should be enabled for Azure Database for MariaDB. This policy audits any Azure Database for MariaDB with geo-redundant backup not enabled.

Deploy prerequisites to enable Guest Configuration Policy on Windows VMs. 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. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
GuestConfiguration

"type": "Microsoft.Compute/virtualMachines/extensions/type",
"equals": "ConfigurationforWindows"
],
"location": {
"value": 
"field("location")"
},
"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": "2019-07-01",
"type": "Microsoft.Compute/virtualMachines", 
"properties": {
"publisher": "Microsoft.GuestConfiguration",
"type": "ConfigurationforWindows",
"typeHandlerVersion": "1.1",
"autoUpgradeMinorVersion": true,
"settings": {},
"protectedSettings": []
}
},
"apiVersion": "2015-05-01-preview",
"name": 
concat(paramaters("vmName"), 
"/AzurePolicyforWindows")
},
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"properties": {
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"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/ACF1601",
"policyRule": {
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"allOf": [
"field": "type",
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"Microsoft.Resources/subscriptions/resourceGroups"
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"value": false,
"equals": true
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"then": {
"effect": audit
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/providers/Microsoft.Authorization/policyDefinitions/0ee79a0c-addf-4ce9-9b3c-d9576ed5e20e,
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"properties": {
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[Preview]

Audit Azure Spring Cloud instances where distributed tracing is not enabled,
"policyType": "BuiltIn",
"mode": "Indexed",
"description": "Distributed tracing tools in Azure Spring Cloud allow debugging and monitoring the complex interconnections between microservices in an application. Distributed tracing tools should be enabled and in a healthy state.",
"metadata": {
"version": "1.0.0-preview",
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"preview": true,
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[Preview]:
Effect",
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"notEquals": "Succeeded"
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"description": "Microsoft implements this Physical and Environmental Protection control",
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/providers/Microsoft.PolicyInsights/policyMetadata/ACF1476",
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/providers/Microsoft.Authorization/policyDefinitions/0f3c4ac2-3e35-4906-a80b-473b12a622d7,
"type": "Microsoft.Authorization/policyDefinitions",
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"0f3c4ac2-3e35-4906-a80b-473b12a622d7",
"properties": {
"displayName": "Microsoft Managed Control 1204 - Access Restrictions For Change | Review System Evaluation"
}
Deploy prerequisites to audit Windows VMs that do not contain the specified certificates in Trusted Root, policyType: "BuiltIn", mode: "Indexed", description: "This 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, metadata: {"version": "1.1.0-preview", "category": "Guest Configuration", "requiredProviders": ["Microsoft.GuestConfiguration"], "parameters": {"CertificateThumbprints": {"type": "String", "metadata": {"displayName": "[Preview]: Certificate thumbprints", "description": "A semicolon-separated list of certificate thumbprints that should exist under the Trusted Root certificate store (Cert:\LocalMachine\Root). e.g.


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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("CertificateThumbprints")])}}, "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"}, "CertificateThumbprints": {"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.*", "configurationParameter": [{"name": "[CertificateStore]CertificateStore1;CertificateThumbprintsToInclude", "value": [parameters("CertificateThumbprints")])}]}, "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": "[CertificateStore]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": [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/106ccbe4-a791-4f33-a44a-06796944b8d5"], "type": "Microsoft.Authorization/policyDefinitions", "name": "106ccbe4-a791-4f33-a44a-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/A5F1554"], "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/10984b4c-e93e-48d7-bf20-9c03b04e9eca"], "type": "Microsoft.Authorization/policyDefinitions", "name": "10984b4c-e93e-48d7-bf20-9c03b04e9eca"}, {"properties": {"displayName": "Ensure 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": "Microsoft.Web/sites/config/web.netFrameworkVersion", "in": ["v3.0", "v4.0"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/10e1859c-ea17-4df3-ab97-a487fa8059f6", "type": "Microsoft.Authorization/policyDefinitions", "name": "10e1859c-ea17-4df3-ab97-a487fa8059f6"}, {"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"}, {"field": "Microsoft.Authorization/roleDefinitions/permissions[*].actions[*]", "notEquals": "*", "notEquals": "*", "not": {"field": "Microsoft.Authorization/roleDefinitions/permissions.actions[*]", "notEquals": "*", "not": {"field": "Microsoft.Authorization/roleDefinitions/permissions.assignableScopes[*]", "notIn": ["[concat(subscription().id, "/")]", [subscription().id], "/"]}, "not": {"field": "Microsoft.Authorization/roleDefinitions/permissions.assignableScopes[*]", "notLike": ["/providers/Microsoft.Management/*"]}, "then": {"effect": ["parameters(effect)"]}, {"id": "/providers/Microsoft.Authorization/policyDefinitions/10ee2ea2-fb4d-45b8-a7e9-a2770044cd9", "type": "Microsoft.Authorization/policyDefinitions", "name": "10ee2ea2-fb4d-45b8-a7e9-a2770044cd9"}, {"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", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, "equals": true}], "then": {"effect": "audit"}}, {"id": "/providers/Microsoft.Authorization/policyDefinitions/11158848-f679-4eb9-aa7b-9fb07d945071", "type": "Microsoft.Authorization/policyDefinitions", "name": "11158848-f679-4eb9-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", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, "equals": true}], "then": {"effect": "audit"}}, {"id": "/providers/Microsoft.Authorization/policyDefinitions/1140e542-b80d-4048-af45-3f7245bc274b", "type": "Microsoft.Authorization/policyDefinitions", "name": "1140e542-b80d-4048-af45-3f7245bc274b"}, {"properties": {"displayName": "Audit Dependency agent deployment - VM Image (OS) unlisted", "policyType": "BuiltIn", "mode": "Indexed", "description": "Reports 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
List of VM images that have supported Windows OS to add to scope,"description":"Example value:

"/subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/Contos oStdImage"", "defaultValue":[]}, "listOfImageIdToInclude_linux":{"type":"Array", "metadata":{"displayName":"Optional:
List of VM images that have supported Linux OS to add to scope","description":"Example value:

"/subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/Contos oStdImage"", "defaultValue":[]}}}


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urceGroups"],{"value":"false","equals":"true"}],"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/12623e7e-4736-4b2e-b776-c1600f35f93a","type":"Microsoft.Authorization/policyDefinitions","name":"12623e7e-4736-4b2e-b776-c1600f35f93a"},"properties":{"displayName":"Microsoft Managed Control 1240 - User-Installed 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/ACF1240"},"policyRule":{"if":{"allOf": [{"field":"type","equals":"false","equals":"true"}],"then": {"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/129eb39f-d79a-4503-84cd-92f036b5e429","type":"Microsoft.Authorization/policyDefinitions","name":"129eb39f-d79a-4503-84cd-92f036b5e429"},"properties":{"displayName":"[Preview]: Deploy prerequisites to audit Windows VMs configurations in "Security Options - System objects"","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 - 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","metadata":{"version":"1.1.0-preview","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", "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": "bosh-windows-server*"}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "cloud-infrastructure-services"}], {"field": "Microsoft.Compute/imageOffer", "like": "ad*"}], {"allOf": [{"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/imageOffer", "like": "bosh-windows-server*"}]}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "cloud-infrastructure-services"}], {"field": "Microsoft.Compute/imageOffer", "like": "ad*"}], {"allOf": [{"field": "Microsoft.Compute/imageOffer", "like": "bosh-windows-server*"}]}]}, {"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-ab88-20f7382dd24c"],"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments","name": "AzureBaseline_SecurityOptionsSystemobjects", "deployment": {"properties": {"mode": "incremental", "parameters": {"vmName": "valu"}}}}
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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/subscriptionGroups"]}], "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/subscriptionGroups"]}], "value": "false", "equals": "true"}}, "then": {"effect": "audit"}, "id": "/providers/Microsoft.Authorization/policyDefinitions/13d8f903-0cd6-449f-a172-50f6579c182b", "type": "Microsoft.Authorization/policyDefinitions", "name": "13d8f903-0cd6-449f-a172-50f6579c182b" }, {"properties": {"displayName": "Microsoft Managed Control 1695 - Information System Monitoring | Wireless Intrusion Detection", "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/ACF1695" }, "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/13fcf812-ec82-4eda-9b89-498de9ed620", "type": "Microsoft.Authorization/policyDefinitions", "name": "13fcf812-ec82-4eda-9b89-498de9ed620" }, {"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": [{"name": "MembersToExclude", "type": "String", "metadata": {"displayName": "Members to exclude", "description": "A semicolon-separated list of members that should be excluded in the Administrators local group. Ex: Administrator; myUser1; myUser2" }}, {"name": "anyOf", "type": "String", "metadata": {"displayName": "anyOf", "description": "A semicolon-separated list of any value from the list is allowed. Ex: esri, incredibuild, MicrosoftDynamicsAX, MicrosoftSharepoint, MicrosoftVisualStudio, MicrosoftWindowsDesktop, MicrosoftWindowsServerHPCPack" }}, {"name": "notLike", "type": "String", "metadata": {"displayName": "notLike", "description": "An expression that any value from the list does not match. Ex: 2008*" }]}, {"name": "anyOf", "type": "String", "metadata": {"displayName": "anyOf", "description": "A semicolon-separated list of any value from the list is allowed. Ex: esri, incredibuild, MicrosoftDynamicsAX, MicrosoftSharepoint, MicrosoftVisualStudio, MicrosoftWindowsDesktop, MicrosoftWindowsServerHPCPack" }}, {"name": "notLike", "type": "String", "metadata": {"displayName": "notLike", "description": "An expression that any value from the list does not match. Ex: 2008*" }}, {"name": "allOf", "type": "String", "metadata": {"displayName": "allOf", "description": "All values from the list are allowed. Ex: esri, incredibuild, MicrosoftDynamicsAX, MicrosoftSharepoint, MicrosoftVisualStudio, MicrosoftWindowsDesktop, MicrosoftWindowsServerHPCPack" }}, {"name": "notLike", "type": "String", "metadata": {"displayName": "notLike", "description": "An expression that any value from the list does not match. Ex: 2008*" }}], "id": "/providers/Microsoft.Authorization/policyDefinitions/13579d0e-0ab0-4b26-b0fb-d586fd7ed20", "type": "Microsoft.Authorization/policyDefinitions", "name": "13579d0e-0ab0-4b26-b0fb-d586fd7ed20" },
null
Deploy prerequisites to audit Windows VMs that do not have a minimum password age of 1 day. 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.
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
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imageOffer","like":"bosh-windowsserver*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructureservices"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}]},{"allOf":[{"anyOf":[{"field":"Microsoft.Comp
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s/storageProfile.osDisk.osType","like":"Windows*"}]},{"anyOf":[{"field":"Microsoft.Compute/imageSKU","exists
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,"details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab8820f7382dd24c"],"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"MinimumPasswo
rdAge","deployment":{"properties":{"mode":"incremental","parameters":{"vmName":{"value":"[field(''name'')]"},"
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''/Microsoft.GuestConfiguration/'',
parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
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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.*"}}},{"condition":"[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''),

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application ID","description":"Resource ID of the managed application to which resources need to be associated."}],"resourceTypesToAssociate":{"type":"Array","metadata":{"displayName":"Resource types to associate","description":"The list of resource types to be associated to the managed application."},"strongType":"resourceTypes"},"associationNamePrefix":{"type":"String","metadata":{"displayName":"Association name prefix","description":"Prefix to be added to the name of the association resource being created."},"defaultValue":"DeployedByPolicy"},"rulePolicy":{"if":{"field":"type","in":"[parameters('resourceTypesToAssociate')]"},"then":{"effect":"deployIfNotExists","details":{"type":"Microsoft.CustomProviders/Associations","name":{"concat(parameters('associationNamePrefix'),"","-",uniqueString(parameters("targetManagedApplicationId"))),"roleDefinitionIds":[/providers/Microsoft.Authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"],"deployment":{"properties":{"mode":"incremental","template":{"$schema":"https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"associatedResourceName":{"type":"string"},"resourceTypesToAssociate":{"type":"string"},"targetManagedApplicationId":{"type":"string"},"associationNamePrefix":{"type":"string"}},"variables":{"resourceType":{"concat(parameters('resourceTypesToAssociate'),"","/providers/associations")},"resourceName":{"concat(parameters('associatedResourceName'),"","/microsoft.customproviders/",parameters('associationNamePrefix'),""),"uniqueString(parameters("targetManagedApplicationId"))},"resources":{"type":"Microsoft.Sql/servers/databases/transparentDataEncryption","name":"current","existenceCondition":{"allOf":{"field":"Microsoft.Sql/transparentDataEncryption.status","equals":"enabled"}}},"id":/providers/Microsoft.Authorization/policyDefinitions/17763ad9-70c0-4794-9397-53d765932634","name":"17763ad9-70c0-4794-9397-53d765932634"},"parameters":{"resourceTypesToAssociate":{"value":"[field('type')]"},"associatedResourceName":{"value":"[field('name')]"},"targetManagedApplicationId":{"value":"[parameters('targetManagedApplicationId')]"},"associationNamePrefix":{"value":"[parameters('associationNamePrefix')]"}}},"id":/providers/Microsoft.Authorization/policyDefinitions/17k78e20-9358-41c9-923c-fb736d382a12","type":"Microsoft.Authorization/policyDefinitions","name":"17k78e20-9358-41c9-923c-fb736d382a12"},"properties":{"displayName":"Transparent Data Encryption on SQL databases should be enabled","policyType":"BuiltIn","mode":"Indexed","description":"Transparent data encryption should be enabled to protect data-at-rest and meet compliance requirements","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"},"policyRule":{"if":{"allOf":{"field":"type","equals":"Microsoft.Sql/servers/databases"},"field":"name","notEquals":"master"},"then":{"effect":{"parameters(effect)"},"details":{"type":"Microsoft.Sql/servers/databases/transparentDataEncryption","name":"current","existenceCondition":{"allOf":{"field":"Microsoft.Sql/transparentDataEncryption.status","equals":"enabled"}}}}},"id":/providers/Microsoft.Authorization/policyDefinitions/17k78e20-9358-41c9-923c-fb736d382a12"},"type":"Microsoft.Authorization/policyDefinitions","name":"17k78e20-9358-41c9-923c-fb736d382a12"},"properties":{"displayName":"Microsoft
Managed Control 1325 - Authenticator

Managed Control 1480 - Temperature And Humidity Controls

Managed Control 1480 - Physical and Environmental Protection

Managed Control 1369 - Incident Monitoring

Managed Control 1269 - Alternate Storage Site | Separation From Primary Site

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Managed Control 1071 - Wireless Access | Restrict Configurations By Users

- **Policy Definition:**
  - **Name:** MicrosoftManagedControl1071
  - **DisplayName:** Microsoft Managed Control 1071
  - **PolicyType:** Static
  - **Mode:** Indexed
  - **Description:** Microsoft implements this Access Control control
  - **Metadata:**
    - **Version:** 1.0.0
    - **Category:** Regulatory Compliance
    - **AdditionalMetadataId:** /providers/Microsoft.PolicyInsights/policyMetadata/ACF1071

- **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/19b9439d-865d-4474-b17d-97d2702fbd66

Azure Monitor log profile should collect logs for categories 'write,' 'delete,' and 'action'

- **Policy Definition:**
  - **Name:** AzureMonitorLogProfileShouldCollectLogs
  - **DisplayName:** Azure Monitor log profile should collect logs for categories 'write,' 'delete,' and 'action'
  - **PolicyType:** BuiltIn
  - **Mode:** All
  - **Description:** This policy ensures that a log profile collects logs for categories 'write,' 'delete,' and 'action'
  - **Metadata:**
    - **Version:** 1.0.0
    - **Category:** Monitoring

- **Policy Rule:**
  - **If:**
    - **Field:** type
  - **Then:**
    - **Effect:** [parameters('effect')]
  - **Details:**
    - **Type:** Microsoft.Insights/logprofiles
    - **ExistenceCondition:**
      - **AllOf:**
        - **Not:**
          - **Field:** Microsoft.Insights/logProfiles/categories[*]
          - **NotEquals:** Write
        - **Not:**
          - **Field:** Microsoft.Insights/logProfiles/categories[*]
          - **NotEquals:** Delete
    - **Not:**
      - **Field:** Microsoft.Insights/logProfiles/categories[*]
      - **NotEquals:** Action

- **ID:** /providers/Microsoft.Authorization/policyDefinitions/1a3437f5b-9ad6-4f28-8861-de404d511ae4

Access to App Services should be restricted

- **Policy Definition:**
  - **Name:** RestrictAccessToAppServices
  - **DisplayName:** Access to App Services should be restricted
  - **PolicyType:** BuiltIn
  - **Mode:** All
  - **Description:** Azure 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
  - **Metadata:**
    - **Version:** 1.0.0-deprecated
    - **Category:** Security Center
    - **DefaultEffect:** Audit
    - **Effect:** [parameters('effect')]
    - **Details:**
      - **Type:** Microsoft.Security/complianceResults
      - **Name:** restrictAccessToAppServices
      - **ExistenceCondition:**
        - **Field:** Microsoft.Security/complianceResults/resourceStatus
        - **In:** [OffByPolicy, Healthy]

- **ID:** /providers/Microsoft.Authorization/policyDefinitions/1a833ff1-d297-4a0f-9944-888428f8e0ff

Vulnerability assessment should be enabled on your SQL managed instances

- **Policy Definition:**
  - **Name:** VulnerabilityAssessmentShouldBeEnabled
  - **DisplayName:** Vulnerability assessment should be enabled on your SQL managed instances
  - **PolicyType:** BuiltIn
  - **Mode:** Indexed
  - **Description:** 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.
  - **Metadata:**
    - **Version:** 1.0.1
    - **Category:** SQL
    - **DefaultEffect:** Audit

- **ID:** /providers/Microsoft.Authorization/policyDefinitions/1a833ff1-d297-4a0f-9944-888428f8e0ff

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a":{"displayName":"Effect","description":"Enable
or disable the execution of the
policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}},"policyRule":{"if":
{"field":"type","equals":"Microsoft.Sql/managedInstances"},"then":{"effect":"[parameters(''effect'')]","details":{"ty
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Microsoft.Sql/managedInstances/vulnerabilityAssessments/recurringScans.isEnabled","equals":"True"}}}}},"id":"/
providers/Microsoft.Authorization/policyDefinitions/1b7aa243-30e4-4c9e-bca8d0d3022b634a","type":"Microsoft.Authorization/policyDefinitions","name":"1b7aa243-30e4-4c9e-bca8d0d3022b634a"},{"properties":{"displayName":"Ensure
that ''PHP version'' is the latest, if used as a part of the Api
app","policyType":"BuiltIn","mode":"Indexed","description":"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.","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"},"PHPLatestVersion
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Services"},"defaultValue":"7.3"}},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Web/sites"},{"fi
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,"name":"web","existenceCondition":{"anyOf":[{"allOf":[{"field":"Microsoft.Web/sites/config/web.linuxFxVersion
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parameters(''PHPLatestVersion''))]"},{"field":"Microsoft.Web/sites/config/web.phpVersion","equals":""}]},{"allOf"
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phpVersion","equals":"[parameters(''PHPLatestVersion'')]"}]}]}}}}},"id":"/providers/Microsoft.Authorization/polic
yDefinitions/1bc1795e-d44a-4d48-9b3b6fff0fd5f9ba","type":"Microsoft.Authorization/policyDefinitions","name":"1bc1795e-d44a-4d48-9b3b6fff0fd5f9ba"},{"properties":{"displayName":"Deploy
Dependency agent for Windows VMs","policyType":"BuiltIn","mode":"Indexed","description":"Deploy
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and the agent is not installed. The list of OS images will be updated over
time as support is
updated.","metadata":{"version":"1.0.1","category":"Monitoring"},"parameters":{"listOfImageIdToInclude":{"type"
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List of VM images that have supported Windows OS to add to scope","description":"Example
value:
''/subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/Contos
oStdImage''"},"defaultValue":[]}},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtual
Machines"},{"anyOf":[{"field":"Microsoft.Compute/imageId","in":"[parameters(''listOfImageIdToInclude'')]"},{"all
Of":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"field":"Microsoft.Com

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Managed Control 1656 - Secure Name / Address Resolution Service (Authoritative Source)

Managed Control 1592 - External Information System Services | Consistent Interests Of Consumers And Providers

Managed Control 1088 - Security Awareness And Training Policy And Procedures

Managed Control 1538 - Security Categorization

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
Managed Control 1298 - Identification And Authentication Policy And Procedures

Microsoft Managed Control 1298 - Identification And Authentication Policy And Procedures is not compatible with .NET Framework 3.5. Use the latest supported .NET Framework version for the latest security classes.

Using older classes and types can make your application vulnerable.

`Managed Control 1595 - Developer Configuration`

Microsoft Managed Control 1595 - Developer Configuration is not compatible with .NET Framework 3.5. Use the latest supported .NET Framework version for the latest security classes.

Using older classes and types can make your application vulnerable.
An 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", "metadata": {"version": "1.0.0", "category": "SQL"}, "parameters": {"effect": "AuditIfNotExists"}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Sql/servers"}, "then": {"effect": "AuditIfNotExists"}, "details": {"type": "Microsoft.Sql/servers/administrators"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/1f314764-cb73-4fc9-b863-8eca98ac36e9", "type": "Microsoft.Authorization/policyDefinitions", "name": "1f314764-cb73-4fc9-b863-8eca98ac36e9"}, 

"Deploy Diagnostic Settings for Event Hub to Log Analytics workspace", "policyType": "BuiltIn", "mode": "Indexed", "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.", "metadata": {"version": "1.0.0", "category": "Monitoring"}, "parameters": {"policyName": "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."}, "metricsEnabled": "true"}, "metricsEnabled": "true"}, "metrics": "true"}, "description": "Whether to enable metrics stream to the Log Analytics workspace - True or False", "allowedValues": ["true", "false"], "metrics": "true"}, "logsEnabled": "true"}, "logs": "true"}, "description": "Whether to enable logs stream to the Log Analytics workspace - True or False", "allowedValues": ["true", "false"], "policyRule": {"if": {"field": "type", "equals": "Microsoft.Sql/servers"}, "then": {"effect": "AuditIfNotExists"}, "details": {"type": "Microsoft.Sql/servers/administrators"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/1f314764-cb73-4fc9-b863-8eca98ac36e9", "type": "Microsoft.Authorization/policyDefinitions", "name": "1f314764-cb73-4fc9-b863-8eca98ac36e9"}
rosoft.EventHub/namespaces"}, "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-cbaf-4eb8-bcfa-c5ed772faa"], "/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": {"resourceName": {"type": "string"}, "location": {"type": "string"}, "logAnalytics": {"type": "string"}, "metricsEnabled": {"type": "string"}, "logsEnabled": {"type": "string"}, "profileName": {"type": "string"}, "variables": {}, "resources": ["/type": "Microsoft.EventHub.namespaces/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")"]}, {"category": "KafkaCoordinatorLogs", "enabled": ["parameters("logsEnabled")"]}], {"category": "EventHubVNetConnectionEvent", "enabled": ["parameters("logsEnabled")"]}, {"category": "CustomerManagedKeyUserLogs", "enabled": ["parameters("logsEnabled")"]}], {"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/1f6e93e8-6b31-41b1-83f6-36e449a42579", "type": "Microsoft.Authorization/policyDefinitions", "name": "1f6e93e8-6b31-41b1-83f6-36e449a42579"}, {"properties": ["displayName": ["Preview"]}, "Deploys prerequisites to audit Windows VMs configurations in "Security Options - Shutdown"], "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 - Shutdown". 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": ["ShutdownAllowSystemToBeShutDownWithoutHavingToLogOn": {"type": "String", "metadata": ["displayName": ["Preview"]}, Shutdown: 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 screen.", "defaultValue": "0"], "ShutdownClearVirtualMemoryPagefile": {"type": "String", "metadata": ["displayName": ["Preview"]}, Shutdown: Clear virtual memory pagefile", "description": "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."},"defaultValue":"0"}},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.Com
pute/virtualMachines"},{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","Micros
oftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindo
wsServerHPCPack"]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"
},{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePub
lisher","equals":"MicrosoftSQLServer"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]},{"all
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":"AzureBaseline_S
ecurityOptionsShutdown","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssign
ments/parameterHash","equals":"[base64(concat(''Shutdown:
Allow system to be shut down without having to log on;ExpectedValue'', ''='',
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''Shutdown: Clear virtual memory pagefile;ExpectedValue'', ''='',
parameters(''ShutdownClearVirtualMemoryPagefile'')))]"},"deployment":{"properties":{"mode":"incremental","para
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ype'')]"},"configurationName":{"value":"AzureBaseline_SecurityOptionsShutdown"},"ShutdownAllowSystemToB
eShutDownWithoutHavingToLogOn":{"value":"[parameters(''ShutdownAllowSystemToBeShutDownWithoutHavi
ngToLogOn'')]"},"ShutdownClearVirtualMemoryPagefile":{"value":"[parameters(''ShutdownClearVirtualMemoryP
agefile'')]"}},"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"},"ShutdownAllowSystemToBeShut
DownWithoutHavingToLogOn":{"type":"string"},"ShutdownClearVirtualMemoryPagefile":{"type":"string"}},"res
ources":[{"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":"Shutdown:
Allow system to be shut down without having to log
on;ExpectedValue","value":"[parameters(''ShutdownAllowSystemToBeShutDownWithoutHavingToLogOn'')]"},{"

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Clear virtual memory
pagefile;ExpectedValue"}, "value": "[parameters(”ShutdownClearVirtualMemoryPagefile”)]"}], 
"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": "1.1", 
"configurationParameter": 
{"name": "Shutdown:
Allow system to be shut down without having to log
on:ExpectedValue"}, 
"value": "[parameters(”ShutdownAllowSystemToBeShutDownWithoutHavingToLogOn”)]"]}, 
"name": "Shutdown:
Clear virtual memory
pagefile;ExpectedValue"}, "value": "[parameters(”ShutdownClearVirtualMemoryPagefile”)]"}], 
"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": 
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"providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/", parameters(”configurationName”)]]"]}], 
"id": 
"/providers/Microsoft.Authorization/policyDefinitions/1f8c20ce-3414-4496-8b26-0e902a1541da", 
"type": "Microsoft.Authorization/policyDefinitions", 
"name": 
"1f8c20ce-3414-4496-8b26-0e902a1541da"], 
"properties": 
{"displayName": "MicrosoftManaged Control 1616 - System And Communications Protection Policy And Procedures", 
"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/ACF1616"], 
"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/2006457a-48b3-4f7b-8d2e-1532287f9929", 
"type": "Microsoft.Authorization/policyDefinitions", 
"name": "2006457a-48b3-4f7b-8d2e-1532287f9929"}], 
"properties": 
{"displayName": "MicrosoftManaged Control 1650 - Public Key Infrastructure Certificates", 
"policyType": "Static", 
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"description": "Microsoft 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-b4b8-7cda352228b7", 
"type": "Microsoft.Authorization/policyDefinitions", 
"name": "201d3740-bd16-4baf-b4b8-
Web ports should be restricted on Network Security Groups associated to your VM. 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. Web ports should be restricted on Network Security Groups associated to your VM.

Microsoft Managed Control 1181 - Baseline Configuration | Retention Of Previous Configurations

Microsoft implements this Configuration Management control.

Microsoft Managed Control 1111 - Response To Audit Processing Failures

Microsoft implements this Audit and Accountability control.

Microsoft Managed Control 1596 - Developer Configuration Management

Microsoft implements this System and Services Acquisition control.

Show audit results from Windows VMs configurations in "Security Options - Audit".
Show audit results from Windows VMs configurations in "System Audit Policies - Account Management" 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 - Account Management". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol,
Management 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": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}, "then": {"effect": "audit"}}}, id: "/providers/Microsoft.Authorization/policyDefinitions/22b469b3-fccf-42da-aa3b-a28e6fb113ce", "type": "Microsoft.Authorization/policyDefinitions", "name": "22b469b3-fccf-42da-aa3b-a28e6fb113ce", "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 match"}, "allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit"}}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Cache/redis"}, {"field": "Microsoft.Cache/Redis/enableNonSslPort", "equals": "true"]}, "then": {"effect": ["parameters('effect')"]}}}, id: "/providers/Microsoft.Authorization/policyDefinitions/22bee202-a82f-4305-9a2a-6d7f4f4d4deb", "type": "Microsoft.Authorization/policyDefinitions", "name": "22bee202-a82f-4305-9a2a-6d7f4f4d4deb", "properties": {"displayName": "[Preview]: Deploy prerequisites to audit Windows VMs that do not restrict the minimum password length to 14 characters", "policyType": "BuiltIn", "mode": "Indexed", "description": "This
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-4640-9019-74a7d06a980", "type": "Microsoft.Authorization/policyDefinitions", "name": "232ab24b-810b-4640-9019-74a7d06a980"},
"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."},
"id": "/providers/Microsoft.Authorization/policyDefinitions/235359c5-7c52-4b82-9055-01c75c9f60e", "type": "Microsoft.Authorization/policyDefinitions", "name": "235359c5-7c52-4b82-9055-01c75c9f60e"},
"properties": {"displayName": "Deployment Settings for Stream Analytics to Log Analytics workspace", "policyType": "BuiltIn", "mode": "Indexed", "description": "Deploys the diagnosticSettings for Stream Analytics to stream to a regional Log Analytics workspace when any Stream Analytics which is missing this diagnostic settings is created or updated."},
"id": "/providers/Microsoft.Authorization/policyDefinitions/233595c9-5c52-4b82-9055-01c75c9f60e", "type": "Microsoft.Authorization/policyDefinitions", "name": "233595c9-5c52-4b82-9055-01c75c9f60e"},
"properties": {"displayName": "Open Source Used In SDWan 20.9.1 10521"}
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.StreamAnalytics/streamingjobs"], "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-cbaf-40b8-bcfc-e573ddc772fa", "/providers/microsoft.authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3-d43ce8d16293"], "deployment": ["properties": ["mode": incremental, "template": "/subscriptions/5b72d27e-3a6c-4911-926e-c4defb4b3f5d/resourceGroups/TargetResourceGroup/providers/Microsoft.StreamAnalytics/streamingjobs/providers/diagnosticSettings", "apiVersion": "2017-05-01-preview", "name": [concat(parameters("resourceName"), "")], "resourceName": [parameters("resourceName")], "workspaceId": [parameters("workspaceId")], "location": [parameters("location")], "dependsOn": [], "variables": [], "outputs": [], "parameters": ["logAnalytics": [parameters("logAnalytics")], "metrics": ["category": "AllMetrics", "enabled": [parameters("metricsEnabled")], "retentionPolicy": ["enabled": false, "days": 0]], "logs": ["category": "Execution", "enabled": [parameters("logsEnabled")], "category": "Authoring", "enabled": [parameters("logsEnabled")]], outputs: [], parameters: ["location": ["value": [parameters("location")], "resourceName": ["value": [parameters("resourceName")], "logAnalytics": ["value": [parameters("logAnalytics")], "metricsEnabled": ["value": [parameters("metricsEnabled")], "logsEnabled": ["value": [parameters("logsEnabled")]]}, "profileName": ["value": [parameters("profileName")]]}, "id": [providers(Microsoft.Authorization/PolicyDefinitions)/2370e07c-b0e8-4ec4-ad46-8c12cb66d673, "/type": "Microsoft.Authorization/policyDefinitions", "name": ["2370e07c-b0e8-4ec4-ad46-8c12cb66d673"]], "properties": ["displayName": "Microsoft Managed Control 1268 - Alternate Storage Site", "policyType": "Static", "mode": Indexed, "description": "Microsoft implements this Contingency Planning control", "metadata": ["version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": [providers(Microsoft.PolicyInsights/policyMetadata/ACF1268)", "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": "Microsoft Open Source Used In SDWan 20.9.1 10523

Microsoft implements this Audit and Accountability 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-ba52-1fdd9f68b57", type: "Microsoft.Authorization/policyDefinitions", name: "243ec95e-800c-49d4-ba52-1fdd9f68b57", {"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/244e0c05-cc45-4fe7-bf36-42dc01f457d", type: "Microsoft.Authorization/policyDefinitions", name: "244e0c05-cc45-4fe7-bf36-42dc01f457d", {"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/24d480ef-11a0-4b1b-8e70-4e023bf2e23", type: "Microsoft.Authorization/policyDefinitions", name: "24d480ef-11a0-4b1b-8e70-4e023bf2e23", {"properties": {"displayName": "[Preview]: 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", "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/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", "equals": "pivotal"}]}}}, "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/24ec95e-800c-49d4-ba52-1fdd9f68b57"}
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Diagnostic Settings for Data Lake Storage Gen1 to Log Analytics workspace

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": {
                  "decision": {
                    "type": "Microsoft.Insights/diagnosticSettings",
                    "name": "[parameters("profileName")]",
                    "existenceCondition": {
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                        "field": "Microsoft.Insights/diagnosticSettings/logs.enabled",
                        "equals": ["false"]},
                      {"field": "Microsoft.Insights/diagnosticSettings/metrics.enabled",
                       "equals": ["true"]}
                    ]}
                  }
                }
              }
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Managed Control 1372 - Incident Reporting, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1372"}, "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/25b96717-c912-4c00-9143-4e487f411726", "displayName": "Microsoft.Authorization/policyDefinitions", "name": "25b96717-c912-4c00-9143-4e487f411726", {"properties": {"displayName": "Microsoft Managed Control 1038 - Least Privilege | Privileged Accounts", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1038"}, "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/266928e1-e88f-464e-bbb3-c134a282b9de", "displayName": "MicrosoftAuthorization/policyDefinitions", "name": "266928e1-e88f-464e-bbb3-c134a282b9de", {"properties": {"displayName": "Endpoint protection solution should be installed on virtual machine scale sets", "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit the existence and health of an endpoint protection solution on your virtual machines scale sets, to protect them from threats and vulnerabilities.", "metadata": {"version": "1.0.0", "category": "Security Center"}, {"parameters": "["field": "type", "equals": "Microsoft.Compute/virtualMachineScaleSets"], "then": {"effect": "[parameters("effect")]", "details": {"type": "Microsoft.Security/complianceResults", "name": "EndpointProtection", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/26a828e1-e88f-464e-bbb3-c134a282b9de", "type": "Microsoft.Authorization/policyDefinitions", "name": "26a828e1-e88f-464e-bbb3-c134a282b9de", {"properties": {"displayName": "Microsoft Managed Control 1649 - Collaborative Computing Devices", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection"}}}}}}}},
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`"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/2823de66-332f-4bfd-94a3-3eb036cd3b67", "type": "Microsoft.Authorization/policyDefinitions", "name": "2823de66-332f-4bfd-94a3-3eb036cd3b67"}, {"properties": {"displayName": "Deploy default Microsoft IaaS Antimalware extension for Windows Server", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy deploys a Microsoft IaaS Antimalware 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.Compute/virtualMachines"}, {"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "equals": "WindowsServer"}, {"field": "Microsoft.Compute/imageSKU", "in": ["2008-R2-SP1", "2008-R2-SP1-smalldisk", "2012-Datacenter", "2012-Datacenter-smalldisk", "2012-R2-Datacenter", "2012-R2-Datacenter-smalldisk", "2016-Datacenter", "2016-Datacenter-Server-Core", "2016-Datacenter-Server-Core-smalldisk", "2016-Datacenter-smalldisk", "2016-Datacenter-with-Containers", "2016-Datacenter-with-RDSS", "2019-Datacenter", "2019-Datacenter-Core", "2019-Datacenter-Core-smalldisk", "2019-Datacenter-Core-with-Containers", "2019-Datacenter-Core-with-Containers-smalldisk", "2019-Datacenter-smalldisk", "2019-Datacenter-with-Containers", "2019-Datacenter-with-Containers-smalldisk"]}], "then": {"effect": "deployIfNotExists", "details": {"type": "Microsoft.Compute/virtualMachines/extensions", "existenceCondition": {"allOf": [{"field": "Microsoft.Compute/virtualMachines/extensions/type", "equals": "IaaS Antimalware"}, {"field": "Microsoft.Compute/virtualMachines/extensions/publisher", "equals": "Microsoft.Azure.Security"}]}, "roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/9980e02c-c2be-4d73-94e8-173b1dc7cf3c"], "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"}, "ExclusionsPaths": {"type": "string", "defaultValue": "", "metadata": {"description": "Semicolon delimited list of file paths or locations to exclude from scanning"}}, "ExclusionsExtensions": {"type": "string", "defaultValue": "", "metadata": {"description": "Semicolon delimited list of file extensions to exclude from scanning"}}, "ExclusionsProcesses": {"type": "string", "defaultValue": "", "metadata": {"description": "Semicolon delimited list of process names to exclude from scanning"}}, "RealtimeProtectionEnabled": {"type": "string", "defaultValue": "true", "metadata": {"description": "Indicates whether or not real time protection is enabled (default is true)"}}, "ScheduledScanSettingsIsEnabled": {"type": "string", "defaultValue": "false", "metadata": {"description": "Indicates whether or not custom scheduled scan settings are enabled (default is false)"}}, "ScheduledScanSettingsScanType": {"type": "string", "defaultValue": "Quick", "metadata": {"description": "Indicates whether scheduled scan setting type is set to Quick or Full (default is Quick)"}}, "ScheduledScanSettingsDay": {"type": "string", "defaultValue": "7", "metadata": {"description": "Day 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-"}}]}}}}}}```
Managed Control 1342 - Authenticator Management | Hardware Token-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/ACF1342" }, "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/283a4e29-69d5-4c94-b99e-29ac003c899" }, "properties": {"displayName": "Microsoft Managed Control 1342 - Authenticator Management | Hardware Token-Based Authentication"},

Managed Control 1436 - 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/ACF1436" }, "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/28aab8b4-74fd-4b7c-9080-5a7be525d574" }, "properties": {"displayName": "Microsoft Managed Control 1436 - Media Transport"},

Managed Control 1224 - Information System Component Inventory | Updates During Installations / Removals, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1224" }, "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/28cfa30b-7f72-47ce-ba3b-eed26c8d2c82" }, "properties": {"displayName": "Microsoft Managed Control 1224 - Information System Component Inventory | Updates During Installations / Removals"},

Managed Control 1148 - Security Assessments | Independent Assessors, "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/ACF1148" }, "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/28e62650-c7c2-4786-bdf7-17edc1673902" }, "properties": {"displayName": "Microsoft Managed Control 1148 - Security Assessments | Independent Assessors"},

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Managed Control 1418 - 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/ACF1418",
  "policyRule": {
    "if": {
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          "field": "type",
          "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
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        {
          "value": false,
          "equals": true
        }
      ]
    },
    "then": {
      "effect": audit
    }
  },
  "id": "/providers/Microsoft.Authorization/policyDefinitions/28e633fd-284e-4ea7-88b4-02ca157ed713",
  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "28e633fd-284e-4ea7-88b4-02ca157ed713",
  "properties": {
    "displayName": "Microsoft Managed Control 1418 - 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/ACF1418",
      "policyRule": {
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            {
              "field": "type",
              "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
            },
            {
              "value": false,
              "equals": true
            }
          ]
        },
        "then": {
          "effect": audit
        }
      },
      "id": "/providers/Microsoft.Authorization/policyDefinitions/28e633fd-284e-4ea7-88b4-02ca157ed713",
      "type": "Microsoft.Authorization/policyDefinitions",
      "name": "28e633fd-284e-4ea7-88b4-02ca157ed713",
      "properties": {
        "displayName": "Microsoft Managed Control 1418 - Nonlocal Maintenance | Comparable Security / Sanitization"
      }
    }
  }
}

Managed Control 1634 - Boundary Protection | Prevent Unauthorized Exfiltration, "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/ACF1634",
  "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/292a7c44-37fa-4c68-af7c-9d836955ded2",
  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "292a7c44-37fa-4c68-af7c-9d836955ded2",
  "properties": {
    "displayName": "Microsoft Managed Control 1634 - Boundary Protection | Prevent Unauthorized Exfiltration",
    "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/ACF1634",
      "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/292a7c44-37fa-4c68-af7c-9d836955ded2",
      "type": "Microsoft.Authorization/policyDefinitions",
      "name": "292a7c44-37fa-4c68-af7c-9d836955ded2",
      "properties": {
        "displayName": "Microsoft Managed Control 1634 - Boundary Protection | Prevent Unauthorized Exfiltration"
      }
    }
  }
}

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"

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ageOffer", "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_SecurityOptions/UserAccountControl", "existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus", "equals": "Compliant"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/29829ec2-489d-4925-81b7-bda06b1718e0", "type": "Microsoft.Authorization/policyDefinitions", "name": "29829ec2-489d-4925-81b7-bda06b1718e0"}, {"properties": {"displayName": "Append a tag and its value to resources", "policyType": "BuiltIn", "mode": "Indexed", "description": "Appends the specified tag and value when any resource which is missing this tag is created or updated. Does not modify the tags of resources created before this policy was applied until those resources are changed. Does not apply to resource groups. New "modify" effect policies are available that support remediation of tags on existing resources (see https://aka.ms/modifydoc)", "metadata": {"version": "1.0.0", "category": "Tags"}, "parameters": {"tagName": {"type": "String", "metadata": {"displayName": "TagName", "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": {"concat([''tags[''parameters(''tagName''), ''']])", "exists": "false"}, "then": {"effect": "append", "details": {"concat([''tags[''parameters(''tagName''), ''']])": [parameters(''tagValue'')]}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/2a0e14a6-b0a6-4fab-991a-187a4f81c498", "type": "Microsoft.Authorization/policyDefinitions", "name": "2a0e14a6-b0a6-4fab-991a-187a4f81c498"}, {"properties": {"displayName": "Microsoft Managed Control 1219 - Least Functionality | Authorized Software / Whitelisting", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1219"}, "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/2a39ac75-622b-4c88-9a3f-45b7373f7ef7", "type": "Microsoft.Authorization/policyDefinitions", "name": "2a39ac75-622b-4c88-9a3f-45b7373f7ef7"}, {"properties": {"displayName": "Microsoft Managed Control 1274 - Alternate Processing Site", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1274"}, "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/2ae175f-cd16-4825-939a-a85349d96210", "type": "Microsoft.Authorization/policyDefinitions", "name": "2ae175f-cd16-4825-939a-a85349d96210"}, {"properties": {"displayName": "Microsoft 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/2aee175f-cd16-4825-939a-a85349d96210"}}
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”}]


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Service should use a virtual network service endpoint.

This policy audits any App Service not configured to use a virtual network service endpoint.

- Managed Control 1704 - Security Alerts, Advisories, And Directives
- [Preview]: Show audit results from Windows VMs 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.

**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 allow remote connections from accounts without passwords. For more information on Guest Configuration policies, please visit [https://aka.ms/gcpol](https://aka.ms/gcpol),"
Managed Control 1077 - Use Of External Information Systems

Managed Control 1149 - Security Assessments | Specialized Assessments

Managed Control 1497 - System Security Plan | Plan / Coordinate With Other Organizational Entities

Managed Control 1000 - Access Control Policy And Procedures

Managed Control 1519 - Personnel Termination
Network traffic data collection agent should be installed on Windows virtual machines.

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**: Enable or disable Dependency Agent for Windows VMs monitoring.

**Parameters**:
- **Effect**: Type of effect, can be either `AuditIfNotExists` or `Disabled`.
- **dependsOn**: Dependencies on other resources.
- **target**: Target resource for the policy.
- **then**: Details of the then section of the policy rule.

**Policy Rule**:
- **If**: Conditions for the policy to be applicable.
- **Then**: Effect of the policy.

**Metadata**:
- **version**: Version of the policy.
- **category**: Category of the policy.
- **preview**: Indicates if the policy is in preview mode.

**Policy Description**:
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.
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Managed Control 1144 - 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/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/2fa15ff1-a693-4ee4-b094-324818dc9a51" }

Managed Control 1090 - 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/ACF1090" }, "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/2fb740e5-cbc7-4d10-8686-d1fb826652b1" }

Web Application should only be accessible over HTTPS, "policyType": "BuiltIn", "mode": "All", "description": "Use of HTTPS ensures server/service authentication and protects data in transit from network layer eavesdropping 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": ["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": "OnlyHttpsForWebApplication", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["Of fByPolicy", "Healthy"]} }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/2fde8a98-6892-426a-83ba-050e640c0ce0" }

b79010405970", "type": "Microsoft.Authorization/policyDefinitions", "name": "315c850a-272d-4502-8935-b79010405970", "properties": 
{"displayName": "Microsoft Managed Control 1042 - Least Privilege | Auditing Use Of 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/ACF1042" }, "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/319dc4f0-0fed-4ac9-8fc3-7aeddee82c07", "type": "Microsoft.Authorization/policyDefinitions", "name": "319dc4f0-0fed-4ac9-8fc3-7aeddee82c07", "properties": 
{"displayName": "Microsoft Managed Control 1698 - Information System Monitoring | Individuals Posing Greater Risk", "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/ACF1698" }, 
"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/31b752c1-05a9-432a-8fce-c39b5650119", "type": "Microsoft.Authorization/policyDefinitions", "name": "31b752c1-05a9-432a-8fce-c39b5650119", "properties": 
{"displayName": "[Preview]: Audit Log Analytics Agent Deployment - VM Image (OS) unlisted", "policyType": "BuiltIn", "mode": "Indexed", "description": "Reports 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.", "metadata": 
{"version": "1.0.0-preview", "category": "Monitoring", "preview": true }, "parameters": 
{"listOfImageIdToInclude_windows": 
{"type": "Array", "metadata": 
{"displayName": 
"[Preview]: Optional: List of VM images that have supported Windows OS to add to scope", "description": "Example value: 
"subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage"], "defaultValue": []}], "listOfImageIdToInclude_linux": 
{"type": "Array", "metadata": 
{"displayName": 
"[Preview]: Optional: List of VM images that have supported Linux OS to add to scope", "description": "Example value: 
"subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage"], "defaultValue": []}], "listOfImageIdToInclude_windows": 
{"type": "Array", "metadata": 
{"displayName": "[Preview]: Optional: List of VM images that have supported Windows OS to add to scope", "description": "Example value: 
"subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage"], "defaultValue": []}], "listOfImageIdToInclude_linux": 
{"type": "Array", "metadata": 
{"displayName": 
"[Preview]: Optional: List of VM images that have supported Linux OS to add to scope", "description": "Example value: 
"subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage"], "defaultValue": []}]]}, 
{"allOf": 
{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer" }, 
"field": "Microsoft.Compute/imageOffer", "equals": "WindowsServer" ], 
"field": "Microsoft.Compute/imageSKU", "in": 
{"allOf": 
{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer" }, 
"field": "Microsoft.Compute/imageOffer", "equals": "WindowsServer" ]}}};
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", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]], "value": "false", "equals": "true"]], "then": 
  ["effect": "audit"]], "id": "/providers/Microsoft.Authorization/policyDefinitions/32820956-9c6d-4376-934c-05cd8525be7c", "type": "Microsoft.Authorization/policyDefinitions", "name": "32820956-9c6d-4376-934c-05cd8525be7c", "properties": "["displayName": "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", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]], "value": "false", "equals": "true"]], "then": 
  ["effect": "audit"]], "id": "/providers/Microsoft.Authorization/policyDefinitions/3298d6bf-4bc6-4278-a95d-f7ef3ac6e594", "type": "Microsoft.Authorization/policyDefinitions", "name": "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": 
      ["type": "String", "metadata": 
        "["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": 
  ["displayName": "Deploy prerequisites to audit Windows VMs on which the specified services are not installed and "Running""]
}
MySQL server should use a virtual network service endpoint,"policyType":"BuiltIn","mode":"Indexed","description":"This policy audits MySQL servers not configured to use a virtual network service endpoint. For more details, visit https://aka.ms/mysqlvnet.

Managed Control 1282 - Telecommunications Services | Single Points Of Failure,"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Contingency Planning control, metadata: {
  "version": "1.0.0",
  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1282",
  "policyRule": {
    "if": {
      "anyOf": [
        {
          "allOf": [
            {
              "field": "type",
              "in": [
                "Microsoft.DBforMySQL/servers"
              ]
            },
            {
              "field": "virtualNetworkRules/virtualNetworkSubnetId",
              "exists": true
            }
          ]
        }
      ]
    }
  },
  "id": "/providers/Microsoft.Authorization/policyDefinitions/3375856c-3824-4e0e-ae6a-79e011dd4c47"
}

Deploy prerequisites to audit Linux VMs that have accounts without passwords","policyType":"BuiltIn","mode":"Indexed","description":"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.

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null
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-71a1a7b4bca",
  "properties": {
    "displayName": "Microsoft Authorization/policyDefinitions",
    "name": "347e3b69-7fb7-47df-a8ef-71a1a7b4bca",
    "type": "Microsoft.Authorization/policyDefinitions",
    "id": "/providers/Microsoft.Authorization/policyDefinitions/347e3b69-7fb7-47df-a8ef-71a1a7b4bca",
    "properties": {
      "displayName": "Microsoft Authorization/policyDefinitions",
      "name": "347e3b69-7fb7-47df-a8ef-71a1a7b4bca",
      "type": "Microsoft.Authorization/policyDefinitions",
      "id": "/providers/Microsoft.Authorization/policyDefinitions/347e3b69-7fb7-47df-a8ef-71a1a7b4bca"
    }
  }
},

Managed Control 1412 - Nonlocal Maintenance

Microsoft Managed Control 1412 - Nonlocal Maintenance

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",
  "properties": {
    "displayName": "Microsoft Authorization/policyDefinitions",
    "name": "3492d949-0dbb-4589-88b3-7b59601cc764",
    "type": "Microsoft.Authorization/policyDefinitions",
    "id": "/providers/Microsoft.Authorization/policyDefinitions/3492d949-0dbb-4589-88b3-7b59601cc764"
  }
},

Managed Control 1475 - Emergency Lighting

Microsoft Managed Control 1475 - Emergency Lighting

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-ce1a1e885501",
  "properties": {
    "displayName": "Microsoft Authorization/policyDefinitions",
    "name": "34a63848-30cf-4081-937e-ce1a1e885501",
    "type": "Microsoft.Authorization/policyDefinitions",
    "id": "/providers/Microsoft.Authorization/policyDefinitions/34a63848-30cf-4081-937e-ce1a1e885501"
  }
},

Managed Control 1060 - Remote Access

Microsoft Managed Control 1060 - Remote Access

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-a120-014956581f2b",
  "properties": {
    "displayName": "Microsoft Authorization/policyDefinitions",
    "name": "34a987fd-2003-45de-a120-014956581f2b",
    "type": "Microsoft.Authorization/policyDefinitions",
    "id": "/providers/Microsoft.Authorization/policyDefinitions/34a987fd-2003-45de-a120-014956581f2b"
  }
},

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 addresses.

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": [{
        "value": Audit,
        "type": "String",
        "defaultValue": Audit
      }],
      "policyRule": {"if": [{
        "field": "type",
        "equals": Microsoft.Storage/storageAccounts
      }],
      "then": {"effect": parameters(effect)"
    ]},
    "id": "/providers/Microsoft.Authorization/policyDefinitions/34a987fd-2003-45de-a120-014956581f2b"
  }
}
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Managed Control 1341 - Authenticator Management | Multiple Information System Accounts

Microsoft implements this Identification and Authentication control.

Microsoft Managed Control 1341 - Authenticator Management | Multiple Information System Accounts

Diagnostic logs in Logic Apps should be enabled.

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.

Required retention (days), description: "The required diagnostic logs retention in days",

Parameters:
- "effect": "AuditIfNotExists",
- "requiredRetentionDays": "365",
- "defaultValue": "AuditIfNotExists"

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

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initiative. For more information on Guest Configuration policies, please visit
https://aka.ms/gcpol
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', '/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments', parameters('vmName'), '/Microsoft.GuestConfiguration/guestConfigurationAssignments', parameters('configurationName'))]"]}}}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/356a906e-05e5-4625-8729-90771e0ee934", "type": "Microsoft.Authorization/policyDefinitions", "name": "356a906e-05e5-4625-8729-90771e0ee934"], ["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.", "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", "existenceCondition": ["field": "Microsoft.Web/sites/config/web.cors.allowedOrigins[\[\]", "value": ["false", "equals": "true"]], "then": ["effect": "audit"]}], "id": "/providers/Microsoft.Authorization/policyDefinitions/358c20a6-3f9e-4f0e-97ff-c6ce485e2aac", "type": "Microsoft.Authorization/policyDefinitions", "name": "358c20a6-3f9e-4f0e-97ff-c6ce485e2aac"], ["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", "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.", "metadata": ["version": "1.0.0", "category": "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-9c0c-539ff999d010", "type": "Microsoft.Authorization/policyDefinitions", "name": "35f9c03a-cc27-418e-9c0c-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": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]], ["value": "false", "equals": "true"]], "then": ["effect": "audit"]], "id": "/providers/Microsoft.Authorization/policyDefinitions/35f9c03a-cc27-418e-9c0c-539ff999d010"]}
Advanced Threat Protection on Storage Accounts

This policy enables Advanced Threat Protection on Storage Accounts.

or disable the execution of the policy

Microsoft implements this System and Communications Protection control

It is important to enable encryption of Automation account variable assets when storing sensitive data.

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"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-9431ba1e9735", "type": "Microsoft.Authorization/policyDefinitions", "name": "3657f5a0-770e-44a3-b44e-9431ba1e9735" }, "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/367ae386-db7f-4167-b672-984f8b6277c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "367ae386-db7f-4167-b672-984f8b6277c0" }, "properties": { "displayName": \"Microsoft Managed Control 1685 - 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/ACF1685" }, "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/servers/securityAlertPolicies\", \"name\": \"Default\", \"existenceCondition\": { \"field\": \"Microsoft.Sql/securityAlertPolicies.state\", \"equals\": \"Enabled\" }, \"roleDefinitionIds\": [ \"/providers/microsoft.authorization/roleDefinitions/056cd41c-7e88-42e1-933e-88ba6a50c9c3\" ] } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/36d49e87-48c4-4f2e-beed-ba4ed02b7115", "type": "Microsoft.Authorization/policyDefinitions", "name": "36d49e87-48c4-4f2e-beed-ba4ed02b7115" }, "properties": { "displayName": \"Deploy prerequisites to audit Windows VMs configurations in \"Security Options - Network Security\"\", "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 - 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,

```
"parameters": {
  "NetworkSecurityConfigureEncryptionTypesAllowedForKerberos": {
    "type": "String",
    "metadata": {
      "displayName": "Network Security: Configure encryption types allowed for Kerberos",
      "description": "Specifies the encryption types that Kerberos is allowed to use.
    },
    "defaultValue": "2147483644"
  },
  "NetworkSecurityLANManagerAuthenticationLevel": {
    "type": "String",
    "metadata": {
      "displayName": "Network security: LAN Manager authentication level",
      "description": "Specify which challenge-response authentication protocol is used for network logons. This choice affects the level of authentication protocol used by clients, the level of session security negotiated, and the level of authentication accepted by servers.
    },
    "defaultValue": "5"
  },
  "NetworkSecurityLDAPClientSigningRequirements": {
    "type": "String",
    "metadata": {
      "displayName": "Network security: LDAP client signing requirements",
      "description": "Specify the level of data signing that is requested on behalf of clients that issue LDAP BIND requests.
    },
    "defaultValue": "1"
  },
  "NetworkSecurityMinimumSessionSecurityForNTLMSSPBasedIncludingSecureRPCClients": {
    "type": "String",
    "metadata": {
      "displayName": "Network security: Minimum session security for NTLM SSP based (including secure RPC) clients",
      "description": "Specifies which behaviors are allowed by clients for applications using the NTLM Security Support Provider (SSP). The SSP Interface (SSPI) is used by applications that need authentication services. See https://docs.microsoft.com/en-us/windows/security/threat-protection/security-policy-settings/network-security-minimum-session-security-for-ntlm-ssp-based-including-secure-rpc-clients
    },
    "defaultValue": "537395200"
  },
  "NetworkSecurityMinimumSessionSecurityForNTLMSSPBasedIncludingSecureRPCServers": {
    "type": "String",
    "metadata": {
      "displayName": "Network security: Minimum session security for NTLM SSP based (including secure RPC) servers",
      "description": "Specifies which behaviors are allowed by servers for applications using the NTLM Security Support Provider (SSP). The SSP Interface (SSPI) is used by applications that need authentication services.
    },
    "defaultValue": "537395200"
  }
},
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"policyRule": {
  "if": {
    "anyOf": [
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        "allOf": [
          {
            "field": "Microsoft.Compute/virtualMachines",
            "anyOf": [
              {
                "field": "Microsoft.Compute/imagePublisher",
                "allOf": [
                  {
                    "field": "Microsoft.Compute/imageOffer",
                    "notLike": "2008*"
                  }
                ]
              }
            ]
          },
          {
            "field": "Microsoft.Compute/imagePublisher",
            "equals": "microsoft-dsvm",
            "field": "Microsoft.Compute/imageOffer",
            "equals": "dsvm-windows"
          },
          {
            "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": "microsoft-dsvm",
            "field": "Microsoft.Compute/imageOffer",
            "equals": "dsvm-windows"
          },
          {
            "field": "Microsoft.Compute/imagePublisher",
            "equals": "microsoft-ads",
            "field": "Microsoft.Compute/imageOffer",
            "in": ["standard-data-science-vm", "windows-data-science-vm"]
          }
        ]
      }
    ]
  }
}
```

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Security: Configure encryption types allowed for Kerberos;ExpectedValue,
"=" parameters("NetworkSecurityConfigureEncryptionTypesAllowedForKerberos"),
"=" parameters("NetworkSecurityLANManagerAuthenticationLevel"),
"=" parameters("NetworkSecurityLDAPClientSigningRequirements"),
"=" parameters("NetworkSecurityMinimumSessionSecurityForNTLMSSPBasedIncludingSecureRPCClients"),
"=" parameters("NetworkSecurityMinimumSessionSecurityForNTLMSSPBasedIncludingSecureRPCServers")),
Security: Configure encryption types allowed for Kerberos;ExpectedValue,
"=" parameters("NetworkSecurityConfigureEncryptionTypesAllowedForKerberos"),
"=" parameters("NetworkSecurityLANManagerAuthenticationLevel"),
"=" parameters("NetworkSecurityLDAPClientSigningRequirements"),
"=" parameters("NetworkSecurityMinimumSessionSecurityForNTLMSSPBasedIncludingSecureRPCClients"),

Deploy prerequisites to audit Windows VMs configurations in "Security Options - Interactive Logon". 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.
Name":{"value":"AzureBaseline_SecurityOptionsInteractiveLogon"}},"template":{"$schema":"https://schema.man
agement.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"}},"resources":[{"condition":"[equal
s(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.*"}}},{"condition":"[equals(toLower(parameters(''type'')),
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meters(''vmName''),
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parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
me":"[parameters(''configurationName'')]","version":"1.*"}}},{"condition":"[equals(toLower(parameters(''type'')),
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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/3750712b-43d0-478e-9966d2c26f6141b9","type":"Microsoft.Authorization/policyDefinitions","name":"3750712b-43d0-478e-9966d2c26f6141b9"},{"properties":{"displayName":"Microsoft
Managed Control 1624 - 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/ACF1624"},"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/37d079e3-d6aa-4263-a069dd7ac6dd9684","type":"Microsoft.Authorization/policyDefinitions","name":"37d079e3-d6aa-4263-a069dd7ac6dd9684"},{"properties":{"displayName":"Storage
accounts should be migrated to new Azure Resource Manager
resources","policyType":"BuiltIn","mode":"All","description":"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","metadata":{"version":"1.0.0","category":"Storage"},"parameters":{"effect":{"type":"String","metada

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implement 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/subscriptionGroups"]}, {"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 Nonlocal 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/subscriptionGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}, id: "/providers/Microsoft.Authorization/policyDefinitions/38dfd8a3-5290-4099-88b7-4081f4c4d8ae"}, type: "Microsoft.Authorization/policyDefinitions", name: "38dfd8a3-5290-4099-88b7-4081f4c4d8ae", properties: {"displayName": "Microsoft Managed Control 1397 - Controlled Maintenance", policyType: "Static", mode: "Indexed", description: "Microsoft implements this Controlled Maintenance control", metadata: {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1397"}, 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/391af4ab-1117-46b9-b2c7-78bbd5cd995b"}, type: "Microsoft.Authorization/policyDefinitions", name: "391af4ab-1117-46b9-b2c7-78bbd5cd995b", properties: {"displayName": "Microsoft Managed Control 1556 - Vulnerability Scanning | Automated Trend Analyses", 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"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}), policyRule: {"if": {"field": "type", "equals": "Microsoft.Sql/managedInstances"}, "then": {"effect": "[parameters('effect')]", details: {"type": "Microsoft.Sql/managedInstances/securityAlertPolicies", "name": "default", "existenceCondition": {"allOf": [{"field": "Microsoft.Sql/managedInstances/securityAlertPolicies/emailAddresses[*]", "notEquals": ""}, {"field": "Microsoft.Sql/managedInstances/securityAlertPolicies/emailAddresses[*]", "exists": "true"}]}}}}, id: "/providers/Microsoft.Authorization/policyDefinitions/3965c43d-b5f4-482e-b74a-
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" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/396ba986-eac1-4d6d-85c4-d3fda6b78272" }, "properties": { "displayName": "Microsoft Managed Control 1232 - Configuration Management" }

Managed Control 1246 - 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/ACF1246" }, "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/398eb61e-8111-40d5-a0c9-003df28f1753" }, "properties": { "displayName": "Microsoft Managed Control 1246 - Contingency Plan" }

FTPS only should be required in your Function App, "policyType": "BuiltIn", "mode": "Indexed", "description": "Enable FTPS enforcement for enhanced 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" ] }, "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/ftpsState", "equals": "FtpsOnly" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/399b2637-a50f-4f95-96f8-3a145476eb15" }, "properties": { "displayName": "Microsoft Managed Control 1680 - Malicious Code Protection | Central Management" }

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.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": "false", "equals": "true" } ], "then": { "effect": "audit" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/399cd6ee-0e18-41db-9dea-cde3b712f38" }, "properties": { "displayName": "Microsoft Managed Control 1680 - Malicious Code Protection | Central Management" }

Managed Control 1228 - Information System Component Inventory | Accountability Information, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1228" }, "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/39c54140-5902-4079-8bb5-ad31936fe764" }, "properties": { "displayName": "Microsoft Managed Control 1228 - Information System Component Inventory | Accountability Information" }

Open Source Used In SDWan
Managed Control 1039 - Least Privilege | Review Of User Privileges, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1039", "policyRule": {"if": {"allOf": [{"field": "type", "in": "["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]"}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, 

Managed Control 1648 - Collaborative Computing Devices, "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/ACF1648", "policyRule": {"if": {"allOf": [{"field": "type", "in": "["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]"}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, 

Managed Control 1315 - 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/ACF1315", "policyRule": {"if": {"allOf": [{"field": "type", "in": "["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]"}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, 

Pod Security Policies should be defined on Kubernetes Services, "policyType": "BuiltIn", "mode": "All", "description": "Define Pod Security Policies to reduce the attack vector by removing unnecessary application privileges. It is recommended to configure Pod Security Policies to only allow pods to access the resources which they have permissions to access.", "metadata": {"version": "1.0.0-preview", "category": "Security Center"}, "preview": true, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Preview]: Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": [{"value": "Audit", "displayValue": "Audit"}], "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.ContainerService/managedClusters"}, {"anyOf": [{"field": "Microsoft.ContainerService/managedClusters/enablePodSecurityPolicy", "exists": false}], "field": "Microsoft.ContainerService/managedClusters/enablePodSecurityPolicy", "equals": false}]]}, "then": {"parameters": {"effect": []}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/3abeb944-26af-43ee-b83d-32aa060fb94", "type": "Microsoft.Authorization/policyDefinitions", "name": "3abeb944-26af-43ee-b83d-32aa060fb94"}, 

Managed Control 1548 - 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/ACF1648", "policyRule": {"if": {"allOf": [{"field": "type", "in": "["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]"}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, 

Managed Control 1315 - 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/ACF1315", "policyRule": {"if": {"allOf": [{"field": "type", "in": "["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]"}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, 

Pod Security Policies should be defined on Kubernetes Services, "policyType": "BuiltIn", "mode": "All", "description": "Define Pod Security Policies to reduce the attack vector by removing unnecessary application privileges. It is recommended to configure Pod Security Policies to only allow pods to access the resources which they have permissions to access.", "metadata": {"version": "1.0.0-preview", "category": "Security Center"}, "preview": true, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Preview]: Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": [{"value": "Audit", "displayValue": "Audit"}], "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.ContainerService/managedClusters"}, {"anyOf": [{"field": "Microsoft.ContainerService/managedClusters/enablePodSecurityPolicy", "exists": false}], "field": "Microsoft.ContainerService/managedClusters/enablePodSecurityPolicy", "equals": false}]]}, "then": {"parameters": {"effect": []}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/3abeb944-26af-43ee-b83d-32aa060fb94", "type": "Microsoft.Authorization/policyDefinitions", "name": "3abeb944-26af-43ee-b83d-32aa060fb94"}, 

Managed Control 1548 - 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/ACF1648", "policyRule": {"if": {"allOf": [{"field": "type", "in": "["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]"}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, 

Pod Security Policies should be defined on Kubernetes Services, "policyType": "BuiltIn", "mode": "All", "description": "Define Pod Security Policies to reduce the attack vector by removing unnecessary application privileges. It is recommended to configure Pod Security Policies to only allow pods to access the resources which they have permissions to access.", "metadata": {"version": "1.0.0-preview", "category": "Security Center"}, "preview": true, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Preview]: Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": [{"value": "Audit", "displayValue": "Audit"}], "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.ContainerService/managedClusters"}, {"anyOf": [{"field": "Microsoft.ContainerService/managedClusters/enablePodSecurityPolicy", "exists": false}], "field": "Microsoft.ContainerService/managedClusters/enablePodSecurityPolicy", "equals": false}]]}, "then": {"parameters": {"effect": []}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/3abeb944-26af-43ee-b83d-32aa060fb94", "type": "Microsoft.Authorization/policyDefinitions", "name": "3abeb944-26af-43ee-b83d-32aa060fb94"}, 

Managed Control 1548 - 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/ACF1648", "policyRule": {"if": {"allOf": [{"field": "type", "in": "["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]"}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, 

Pod Security Policies should be defined on Kubernetes Services, "policyType": "BuiltIn", "mode": "All", "description": "Define Pod Security Policies to reduce the attack vector by removing unnecessary application privileges. It is recommended to configure Pod Security Policies to only allow pods to access the resources which they have permissions to access.", "metadata": {"version": "1.0.0-preview", "category": "Security Center"}, "preview": true, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Preview]: Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": [{"value": "Audit", "displayValue": "Audit"}], "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.ContainerService/managedClusters"}, {"anyOf": [{"field": "Microsoft.ContainerService/managedClusters/enablePodSecurityPolicy", "exists": false}], "field": "Microsoft.ContainerService/managedClusters/enablePodSecurityPolicy", "equals": false}]]}, "then": {"parameters": {"effect": []}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/3abeb944-26af-43ee-b83d-32aa060fb94", "type": "Microsoft.Authorization/policyDefinitions", "name": "3abeb944-26af-43ee-b83d-32aa060fb94"}, 

Managed Control 1548 - 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/ACF1648", "policyRule": {"if": {"allOf": [{"field": "type", "in": "["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]"}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}},
Dependency 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: 
    - listOfImageIdToInclude:
      - type: "Array"
      - metadata: 
        - displayName: Optional: List of VM images that have supported Windows OS to add to scope
        - example value: 
          
        - defaultValue: []

- policyRule: 
  - if:
    - allOf:
      - field: "type",
        equals: "Microsoft.Compute/virtualMachineScaleSets"
      - anyOf:
        - field: "Microsoft.Compute/imagePublisher",
          equals: "MicrosoftWindowsServer"
        - field: "Microsoft.Compute/imageOffer",
          equals: "WindowsServer"
        - field: "Microsoft.Compute/imageSKU",
        - allOf:
          - field: "Microsoft.Compute/imagePublisher",
            equals: "MicrosoftWindowsServer"
          - field: "Microsoft.Compute/imageOffer",
            equals: "WindowsServerSemiAnnual"
          - field: "Microsoft.Compute/imageSKU",
            in: ["Datacenter-Core-1709-smalldisk", "Datacenter-Core-1709-with-Containers-smalldisk", "Datacenter-Core-1803-Containers-smalldisk"]
      - allOf:
        - field: "Microsoft.Compute/imagePublisher",
          equals: "MicrosoftWindowsServerHPCPack"
        - field: "Microsoft.Compute/imageOffer",
          equals: "WindowsServerHPCPack"
      - allOf:
        - field: "Microsoft.Compute/imagePublisher",
          equals: "MicrosoftSQLServer"
        - field: "Microsoft.Compute/imageOffer",
          equals: "*-WS2016"
        - field: "Microsoft.Compute/imageOffer",
          like: "=*-WS2016-BYOL"
        - field: "Microsoft.Compute/imageOffer",
          like: "=*-WS2012R2-BYOL"
        - field: "Microsoft.Compute/imageOffer",
          like: "=*-WS2012R2R-BYOL"
      - allOf:
        - field: "Microsoft.Compute/imagePublisher",
          equals: "MicrosoftRServer"
        - field: "Microsoft.Compute/imageOffer",
          equals: "MLServer-WS2016"
      - allOf:
        - field: "Microsoft.Compute/imagePublisher",
          equals: "MicrosoftVisualStudio"
        - field: "Microsoft.Compute/imageOffer",
          in: ["VisualStudio", "Windows"]
      - allOf:
        - field: "Microsoft.Compute/imagePublisher",
          equals: "MicrosoftDynamicsAX"
        - field: "Microsoft.Compute/imageOffer",
          equals: "Dynamics"
        - field: "Microsoft.Compute/imageSKU",
          equals: "Pre-Req-A7-Onebox-U8"
      - allOf:
        - field: "Microsoft.Compute/imagePublisher",
          equals: "microsoft-ads"
        - field: "Microsoft.Compute/imageOffer",
          equals: "windows-data-science-vm"
      - allOf:
        - field: "Microsoft.Compute/imagePublisher",
          equals: "MicrosoftWindowsDesktop"
        - field: "Microsoft.Compute/imageOffer",
          equals: "Windows-10"
    - then:
      -Effect: "deployIfNotExists"
      - details:
        - type: "Microsoft.Compute/virtualMachineScaleSets/extensions"
        - roleDefinitionIds:
          - providers/microsoft.authorization/roleDefinitions/9980e02c-c2be-4d7e-94e8-173b1d1c7cf3c
        - existenceCondition:
          - allOf:
              equals: "DependencyAgentWindows"
Open Source Used In SD-WAN

Microsoft Azure Dependency Agent

**Policy Definitions**

1. **PostgreSQL server should use a virtual network service endpoint**
   - **Policy Type**: BuiltIn
   - **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](https://aka.ms/postgresqlvnet).

2. **Deploy Log Analytics agent for Windows virtual machine scale sets**
   - **Policy Type**: 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 upgrade policy is set to Manual, you need to apply the extension to all VMs in the set by calling upgrade on them. In CLI this would be `az vmss update-instances`.

---

*The above text is a continuation of the raw text provided.*
Vulnerabilities in security configuration on your virtual machine scale sets should be remediated.

Audit the OS vulnerabilities on your virtual machine scale sets to protect them from attacks.

Managed Control 1621 - Resource Availability

Microsoft implements this System and Communications Protection control.

Managed Control 1521 - Personnel Termination | Automated Notification

Microsoft implements this Personnel Security control.

Managed Control 1127 - Time Stamps

Microsoft implements this Audit and Accountability control.

Deploy Diagnostic Settings for Search Services to Event

Open Source Used In SDWan 20.9.1 10566
Deploys the diagnostic settings for Search Services to stream to a regional Event Hub when any Search Services which is missing this diagnostic settings is created or updated.

- metadata:
  - version: "2.0.0"
  - category: "Monitoring"
  - parameters:
    - effect: "DeployIfNotExists"
    - 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 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.EventHub/Namespaces/AuthorizationRules"
    - assignPermissions: true

- eventHubLocation:
  - type: "String"
  - metadata:
    - displayName: "Event Hub Location"
    - description: "The location the Event Hub resides in. Only Search Services 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 - True or False"
  - allowedValues:
    - True
    - False
  - defaultValue: "False"

- logsEnabled:
  - type: "String"
  - metadata:
    - displayName: "Enable logs"
    - description: "Whether to enable logs stream to the Event Hub - True or False"
  - allowedValues:
    - True
    - False
  - defaultValue: "True"
Show audit results from Windows VMs configurations in "Security Options - Devices".

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 - Devices". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Deploy default Log Analytics Agent for Ubuntu VMs.

This policy deploys the Log Analytics Agent on Ubuntu VMs, and connects to the selected Log Analytics workspace.
ID.","strongType":"omsWorkspace"}}},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Compute/
virtualMachines"},{"field":"Microsoft.Compute/imagePublisher","equals":"Canonical"},{"field":"Microsoft.Compu
te/imageOffer","equals":"UbuntuServer"},{"field":"Microsoft.Compute/imageSKU","in":["18.04-LTS","16.04LTS","16.04.0-LTS","14.04.2-LTS","12.04.5LTS"]}]},"then":{"effect":"deployIfNotExists","details":{"type":"Microsoft.Compute/virtualMachines/extensions","
existenceCondition":{"allOf":[{"field":"Microsoft.Compute/virtualMachines/extensions/type","equals":"OmsAgent
ForLinux"},{"field":"Microsoft.Compute/virtualMachines/extensions/publisher","equals":"Microsoft.EnterpriseClo
ud.Monitoring"}]},"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/92aaf0da-9dab-42b694a3d43ce8d16293"],"deployment":{"properties":{"mode":"incremental","template":{"$schema":"http://schema.manage
ment.azure.com/schemas/2015-0101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"vmName":{"type":"string"},"location":{
"type":"string"},"logAnalytics":{"type":"string"}},"resources":[{"name":"[concat(parameters(''vmName''),''/omsPoli
cy'')]","type":"Microsoft.Compute/virtualMachines/extensions","location":"[parameters(''location'')]","apiVersion":"
2017-1201","properties":{"publisher":"Microsoft.EnterpriseCloud.Monitoring","type":"OmsAgentForLinux","typeHandlerV
ersion":"1.4","autoUpgradeMinorVersion":true,"settings":{"workspaceId":"[reference(parameters(''logAnalytics''),
''2015-03-20'').customerId]"},"protectedSettings":{"workspaceKey":"[listKeys(parameters(''logAnalytics''),
''2015-03-20'').primarySharedKey]"}}}],"outputs":{"policy":{"type":"string","value":"[concat(''Enabled
monitoring for Linux VM'', '': '',
parameters(''vmName''))]"}}},"parameters":{"vmName":{"value":"[field(''name'')]"},"location":{"value":"[field(''lo
cation'')]"},"logAnalytics":{"value":"[parameters(''logAnalytics'')]"}}}}}}}},"id":"/providers/Microsoft.Authorizati
on/policyDefinitions/3d8640fc-63f6-4734-8dcbcfd3d8c78f38","type":"Microsoft.Authorization/policyDefinitions","name":"3d8640fc-63f6-4734-8dcbcfd3d8c78f38"},{"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/ACF1385"},"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/3e495e65-8663-49ca-9b389f45e800bc58","type":"Microsoft.Authorization/policyDefinitions","name":"3e495e65-8663-49ca-9b389f45e800bc58"},{"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":{"effect":{"type":"String","metad
ata":{"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.OperationsManagement/solutions","existenceCondition":{"allOf":[{"field":"Microsoft.Operations
Management/solutions/provisioningState","equals":"Succeeded"},{"field":"name","like":"Security(*)"}]}}}}},"id":
"/providers/Microsoft.Authorization/policyDefinitions/3e596b57-105f-48a6-be9703e9243bad6e","type":"Microsoft.Authorization/policyDefinitions","name":"3e596b57-105f-48a6-be9703e9243bad6e"},{"properties":{"displayName":"Microsoft
Managed Control 1160 - Security

Open Source Used In SDWan 20.9.1 10569


Open Source Used In SDWan 20.9.1 10570

Managed Control 1545 - Risk Assessment

Managed Control 1179 - Baseline Configuration | Reviews And Updates

Audit API Applications that are not using latest supported PHP Framework

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", "in": [ "Microsoft.Web/sites", "apiApp" ] } ] }, "then": { "effect": [ "AuditIfNotExists" ] } } }, "id": "providers/Microsoft.Authorization/policyDefinitions/3fe37002-5d00-4b37-a09e3a0a66", "type": "Microsoft.Azure.Management.Policy.Fluent.GroupManager" }, "properties": { "displayName": "Microsoft Managed Control 1561 - Allocation Of Resources", "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/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/3fe37002-5d00-4b37-a09e3a0a66", "type": "Microsoft.Azure.Management.Policy.Fluent.GroupManager" }, "properties": { "displayName": "Microsoft

Managed Control 1545 - 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/ACF1545" }, "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/3f4b171a-a56b-4328-8112-32cf7f947ee1", "type": "Microsoft.Azure.Management.Policy.Fluent.GroupManager" }, "properties": { "displayName": "Microsoft Managed Control 1179 - 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/ACF1179" }, "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/3f9ce557-c8ab-4e6c-bb2c-9b8ed002c46c", "type": "Microsoft.Azure.Management.Policy.Fluent.GroupManager" }, "properties": { "displayName": "[Deprecated]: Audit API 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" }, "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": "apiApp" } ] }, "then": { "effect": [ "AuditIfNotExists" ] } } }, "id": "providers/Microsoft.Authorization/policyDefinitions/3fe37002-5d00-4b37-a09e3a0a66", "type": "Microsoft.Azure.Management.Policy.Fluent.GroupManager" }, "properties": { "displayName": "Microsoft Managed Control 1561 - Allocation Of Resources", "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/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/4036435f-c331-4e29-b1e3-
Secure transfer to storage accounts should be enabled. The policy determines what happens when the policy rule is evaluated to match. The allowed values are: ["Audit", "Deny", "Disabled"]. The default value is "Audit". The effect determines what happens when the policy rule is evaluated to match. The allowed values are: ["Audit", "Deny", "Disabled"]. The default value is "Audit". The effect is "Audit".

Deploy prerequisites to audit Windows VMs configurations in "Administrative Templates - System". 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.
Always use classic logon; "ExpectedValue": "0", parameters("AlwaysUseClassicLogon")

"BootstrapDriverInitializationPolicy": "ExpectedValue": "3", parameters("BootstrapDriverInitializationPolicy")

Enable Windows NTP Client; "ExpectedValue": "1", parameters("EnableWindowsNTPClient")

Turn on convenience PIN sign-in; "ExpectedValue": "0", parameters("TurnOnConveniencePINSignin")
"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')]"}}}},
rationAssignments"],["parameters"("configurationName"))]["}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/40917425-69db-4018-8dae-2a0556ce8999","type":"Microsoft.Authorization/policyDefinitions","name":"40917425-69db-4018-8dae-2a0556ce8999"],["properties":{"displayName":"Microsoft Managed Control 1202 - Access Restrictions For Change","policyType":""Static","mode":""Indexed","description":"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/40a2a83b-74f2-4c02-ae65-f460a5d2792a","type":"Microsoft.Authorization/policyDefinitions","name":"40a2a83b-74f2-4c02-ae65-f460a5d2792a"},"properties":{"displayName":"Inherit a tag from the subscription if missing","policyType":""BuiltIn","mode":""Indexed","description":"Adds the specified tag with its value from the containing subscription 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":{"category":"Tags","version":"1.0.0"},"parameters":{"tagName":{"type":"String","metadata":{"displayName":"Tag Name","description":"Name of the tag, such as "environment""}}},"policyRule":{"if":{"allOf":["field":concat("tags"],[parameters("tagName")],"exists":"false"],"value":concat(subscription().tags[parameters("tagName")],"notEquals":""),"then":{"effect":"modify"},"details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"],"operations":[concat("operation":"add","field":concat("tags"],[parameters("tagName")])}]}},"id":"/providers/Microsoft.Authorization/policyDefinitions/40df99da-1232-49b1-a39a-6da8d878f469","type":"Microsoft.Authorization/policyDefinitions","name":"40df99da-1232-49b1-a39a-6da8d878f469"},"properties":{"displayName":"Microsoft Managed Control 1438 - Media Sanitization","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.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"value":"false","equals":"true"],"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/4116891d-72f7-46ee-911c-80566c8c2ebd5","type":"Microsoft.Authorization/policyDefinitions","name":"4116891d-72f7-46ee-911c-80566c8c2ebd5"},"properties":{"displayName":"Microsoft Managed Control 1365 - Incident Handling | Continuity Of Operations","policyType":""Static","mode":""Indexed","description":"Microsoft 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/resourceGroups"],"value":"false","equals":"true"],"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/4116891d-72f7-46ee-911c-80566c8c2ebd5"},"properties":{"displayName":"Microsoft Managed Control 1365 - Incident Handling | Continuity Of Operations"},"policyType":""Static","mode":""Indexed","description":"Microsoft 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/resourceGroups"],"value":"false","equals":"true"],"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/4116891d-72f7-46ee-911c-80566c8c2ebd5"},"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/resourceGroups"]},"value":"false","equals":"true"]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/411f7e2d-9a0b-4627-a0b9-1700432db47d","type":"Microsoft.Authorization/policyDefinitions","name":"411f7e2d-9a0b-4627-a0b9-1700432db47d"},"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/resourceGroups"]},"value":"false","equals":"true"]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/41256567-1795-4684-b00b-a1308ce43cac","type":"Microsoft.Authorization/policyDefinitions","name":"41256567-1795-4684-b00b-a1308ce43cac"},"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.Insights/logProfiles"},"then":{"effect":"[parameters(''effect'')"]","details":{"type":"Microsoft.Insights/logProfiles","existenceCondition":{"allOf":[{"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"australiacentral"}},"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"australiaeast"}},"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"australiasoutheast"}},"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"brazilsouth"}},"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"canadacentral"}},"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"canadaeast"}},"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"centralindia"}},"not":{"field":"Microsoft.Insights/logProfiles/locations[*]","notEquals":"centralus"}}"}}}
Microsoft Managed Control 1263 - 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/ACF1263"}, "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/41388f1c-2db0-4c25-95b2-35d7f5ccbcfa9"}

Managed Control 1096 - Role-Based Security Training | Practical Exercises,
"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/ACF1096"}, "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/420c1477-aa43-49d0-bd7e-c4abdd9addff9"}

Managed Control 1260 - Contingency Planning | Simulated Events,
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control","metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1260"}, "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/42254fc4-2738-49d0-acd7-a13c157081c0a"}

Managed Control 1694 - Information System Monitoring | Analyze Communications Traffic Anomalies,
"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/ACF1694"}, "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/426c4ac9-ff17-49d0-acd7-a13c157081c0a"}

Diagnostic logs in Batch accounts 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.

or disable the execution of the policy.

This enables you to recreate activity trails to use for investigation purposes; when a security incident occurs or when your network is compromised.

Deploy prerequisites to audit Windows VMs configurations in "System Audit Policies - Detailed Tracking".

This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Detailed Tracking". 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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10578
Managed Control 1174 - Configuration Management Policy And Procedures, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1174" }, "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/42a9a714-8fbb-43ac-b115-ea12d2bd652f", "type": "Microsoft.Authorization/policyDefinitions", "name": "42a9a714-8fbb-43ac-b115-ea12d2bd652f" }, {"properties": {"displayName": "Microsoft Managed Control 1137 - 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/ACF1137" }, "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/4344df62-88ab-4637-b97b-bcafe2e97b7e", "type": "Microsoft.Authorization/policyDefinitions", "name": "4344df62-88ab-4637-b97b-bcafe2e97b7e" }, {"properties": {"displayName": "Microsoft Managed Control 1367 - Incident Handling | Insider Threats - Specific Capabilities", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1367" }, "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/435b2547-6374-4f87-b42d-6e8de6ae62a", "type": "Microsoft.Authorization/policyDefinitions", "name": "435b2547-6374-4f87-b42d-6e8de6ae62a" }, {"properties": {"displayName": "Microsoft Managed Control 1552 - Vulnerability Scanning | Update By Frequency / Prior To New Scan / When Identified", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Risk Assessment control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1552" }, "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/43684572-e4f1-4642-af35-6b933bc506da", "type": "Microsoft.Authorization/policyDefinitions", "name": "43684572-e4f1-4642-af35-6b933bc506da" }, {"properties": {"displayName": "Microsoft Managed Control 1164 - Security Options - System settings", "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 - 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 details on how to use this policy, please see the Microsoft Azure Policy documentation.

Deploy prerequisites to audit Windows VMs configurations in "Security Options - System settings"."}, "id": "/providers/Microsoft.Authorization/policyDefinitions/42a07bbf-ffcf-459a-b4b1-30eced118a50", "type": "Microsoft.Authorization/policyDefinitions", "name": "42a07bbf-ffcf-459a-b4b1-30eced118a50" },
information on Guest Configuration policies, please visit https://aka.ms/gpcol

"metadata": {
  "version": "1.1.0-preview",
  "category": "Guest Configuration",
  "requiredProviders": ["Microsoft.GuestConfiguration"],
  "preview": true,
  "parameters": ["SystemSettingsUseCertificateRulesOnWindowsExecutablesForSoftwareRestrictionPolicies"],
  "type": "String",
  "metadata": {
    "displayName": "[Preview]: System settings: Use Certificate Rules on Windows Executables for Software Restriction Policies",
    "description": "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"]
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"policyRule": {
  "if": {
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            "field": "Microsoft.Compute/imagePublisher",
          },
          {
            "field": "Microsoft.Compute/imagePublisher",
            "equals": "MicrosoftWindowsServer",
            "notLike": "2008*"
          },
          {
            "field": "Microsoft.Compute/imagePublisher",
            "equals": "MicrosoftSQLServer",
            "notLike": "SQL2008*"
          },
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            "field": "Microsoft.Compute/imagePublisher",
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          },
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                "equals": "microsoft-ads"
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                "in": ["standard-data-science-vm", "windows-data-science-vm"]
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                "equals": "batch"
              },
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                "equals": "rendering-windows2016"
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                "like": "bosh-windows-server-2*"
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          }
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            "like": "windows*"
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        ]
      }
    ]
  },
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      "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", "="))"]
      },
      "parameters": ["SystemSettingsUseCertificateRulesOnWindowsExecutablesForSoftwareRestrictionPolicies")]
    }
  }
}}

"template": {
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    "location": {"type": ""},
    "deploymentProfile": {"type": ""},
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    "incremental": {"type": ""},
    "name": {"type": ""},
    "location": {"type": ""},
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    "subscription": {"type": ""},
    "template": {"type": ""},
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  }
}

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"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": "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/437a1f8f-8552-47a8-8b12-a2fe3269dd5","type": "Microsoft.Authorization/policyDefinitions","name": "437a1f8f-8552-47a8-8b12-a2fe3269dd5","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-2522649a2471","type": "Microsoft.Authorization/policyDefinitions","name": "43ced7c9-cd53-456b-b0da-2522649a2471","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.Authorizatio
Monitor permissive network access in Azure Security Center. This policy will ensure that Network Security Groups with too permissive rules are monitored by Azure Security Center as recommendations.

**Policy Rule:**
- **If:**
  - `type`:
    - `Microsoft.Compute/virtualMachines`
    - `Microsoft.ClassicCompute/virtualMachines`
- **Then:**
  - `effect`:
    - `AuditIfNotExists`
  - `details`:
    - `type`:
      - `Microsoft.Security/complianceResults`
    - `name`:
      - `permissiveNetworkAccess`
    - `existenceCondition`:
      - `field`:
        - `Microsoft.Security/complianceResults/resourceStatus`
      - `in`:
        - `OffByPolicy`
        - `Healthy`
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Managed Control 1712 - Software, Firmware, And Information Integrity

Managed Control 1310 - Device Identification And Authentication

Managed Control 1559 - System And Services Acquisition Policy And Procedures

Managed Control 1578 - Acquisition Process | Functions / Ports / Protocols / Services In Use

Managed Control 1565 - System Development Life Cycle
implements this System and Services Acquisition
control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1655"},"policyRule ":{"if":{"allOf":["field":"type","in":"[Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]","value":false,"equals":true}],"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization.Authorizatio
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Managed Control 1337 - Authenticator Management | In-Person Or Trusted-Third-Party
Registration","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/ACF1337"},"policyRule ":{"if":{"allOf":["field":"type","in":"[Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]","value":false,"equals":true}],"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/463e5220-3f79-4e24-a63f-343e4096cd22","type":"Microsoft.Authorization/policyDefinitions","name":"463e5220-3f79-4e24-a63f-343e4096cd22"},"properties":{"displayName":"[Deprecated]:
Require SQL Server version 12.0","policyType":"BuiltIn","mode":"Indexed","description":"This
policy ensures all SQL servers use version 12.0. This policy is deprecated
because it is no longer possible to create an Azure SQL server with any version
other than 12.0.","metadata":{"version":"1.0.0-deprecated","category":"SQL","deprecated":true},"parameters":{},"policyRule":{"if":{"allOf":["field":"type","equ
als":"Microsoft.Sql/servers"],"not":{"field":"Microsoft.Sql/servers/version","equals":12.0}}},"then":{"effect":"Deny"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/464dbb85-3d5f-4a1d-bb09-95a9b5d5d19c"},"type":"Microsoft.Authorization/policyDefinitions","name":"464dbb85-3d5f-4a1d-bb09-95a9b5d5d19c"},"properties":{"displayName":"Microsoft
Managed Control 1346 - Identification And Authentication (Non-Organizational
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/ACF1346"},"policyRule ":{"if":{"allOf":["field":"type","in":"[Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]","value":false,"equals":true}],"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/464dc8ce-2200-4720-87a5
dc5952924cc6"},"type":"Microsoft.Authorization/policyDefinitions","name":"464dc8ce-2200-4720-87a5
dc5952924cc6"},"properties":{"displayName":"[Deprecated]:
Audit Web Applications that are not using latest supported Python
Framework","policyType":"BuiltIn","mode":"All","description":"Use
the latest supported Python 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}}},"then":{"effect":parameters\(effect\)},"details":{"type":Microsoft.Security/compliance
Results","name":UseLatestPython","existenceCondition":{"field":Microsoft.Security/complianceResults/resource
Status","in":OffByPolicy,Healthy},"id":"/providers/Microsoft.Authorization/policyDefinitions/46544d7b-
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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.automaticOSUpgrade", {"notEquals": "True"}]}], "then": {"effect": "deny"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/465f0161-0087-490a-9ad9-ad6217f4f43a", "type": "Microsoft.Authorization/policyDefinitions", "name": "/providers/Microsoft.Authorization/policyDefinitions/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": "/providers/Microsoft.Authorization/policyDefinitions/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 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": "/providers/Microsoft.Authorization/policyDefinitions/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"}, {"field": "Microsoft.DocumentDB/databaseAccounts/disableKeyBasedMetadataWriteAccess", {"notEquals": "true"}]}], "then": {"effect": "append", "details": [{"field": "Microsoft.DocumentDB/databaseAccounts/disableKeyBasedMetadataWriteAccess", {"value": "true"}]}]}}}, "id": "/providers/Microsoft.DocumentDB/policyDefinitions/4750c32b-89c0-46af-bfcb-2e4541a818d5", "type": "Microsoft.Authorization/policyDefinitions", "name": "/providers/Microsoft.DocumentDB/policyDefinitions/4750c32b-89c0-46af-bfcb-2e4541a818d5"}, {"properties": {"displayName": "Automatic provisioning of the Log Analytics monitoring agent should be enabled on your subscription", "policyType": "BuiltIn", "mode": "All", "description": "Enable automatic provisioning of the Log Analytics monitoring agent in order to collect security data.", "metadata": {"version": "1.0.0", "category": "Security Center"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the"}}}.
Application Controls should be enabled on virtual machines, "policyType": "BuiltIn", "mode": "All", "description": "Possible Application Whitelisting configuration will be monitored by Azure Security Center", "metadata": {"version": "1.0.1", "category": "Security"}, "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": "applicationWhitelisting", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/47a6b606-51aa-4496-8bb7-64b11cf66ade", "type": "Microsoft.Authorization/policyDefinitions", "name": "47a6b606-51aa-4496-8bb7-64b11cf66ade"}, "properties": {"displayName": "Microsoft Managed Control 1359 - Incident Response Testing | Coordination With Related Plans", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1359"}, "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/483e7ca9-82b3-45a2-be97-b93163a0deb7", "type": "Microsoft.Authorization/policyDefinitions", "name": "483e7ca9-82b3-45a2-be97-b93163a0deb7"}, "properties": {"displayName": "Microsoft Managed Control 1048 - 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/ACF1048"}, "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/483e7ca9-82b3-45a2-be97-b93163a0deb7", "type": "Microsoft.Authorization/policyDefinitions", "name": "483e7ca9-82b3-45a2-be97-b93163a0deb7"}, "properties": {"displayName": "Microsoft Managed Control 1033 - Separation Of..."
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Managed Control 1669 - Flaw Remediation

Managed Control 1376 - Incident Response Assistance | Coordination With External Providers

Ensure that "Java version" is the latest, if used as a part of the Web app.

Deploy prerequisites to audit Windows VMs configurations in "Security Options - Audit".
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, "description": "If the system will shut down when unable to log Security events."

"AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits": "false"

"AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits": "0"
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''/Microsoft.GuestConfiguration/'',
parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
me":"[parameters(''configurationName'')]","version":"1.*","configurationParameter":[{"name":"Audit:
Shut down system immediately if unable to log security
audits;ExpectedValue","value":"[parameters(''AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits'')]"
}]}}},{"condition":"[equals(toLower(parameters(''type'')),
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parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
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Shut down system immediately if unable to log security
audits;ExpectedValue","value":"[parameters(''AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits'')]"
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crosoft.Compute/virtualMachines/'',parameters(''vmName''),''/providers/Microsoft.GuestConfiguration/guestConfigu
rationAssignments/'',parameters(''configurationName''))]"]}]}}}}}}},"id":"/providers/Microsoft.Authorization/polic
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Managed Control 1329 - Authenticator Management | Password-Based
Authentication","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Identification and Authentication
control","metadata":{"version":"1.0.0","category":"Regulatory
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":{"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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Managed Control 1638 - Boundary Protection | Dynamic Isolation /
Segregation","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/ACF1638"},"policyRule

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a tag and its value to resource groups,"policyType":"BuiltIn","mode":"All","description":"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)."metadata":{"version":"1.0.0","category":"Tags"},"parameters":{"tagName":{"type":"String","metadata":{"displayName":"TagName","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":{"allOf":["Microsoft.Resources/subscriptions/resourceGroups"],"tag":{"key":""tags","name":""parameters(''tagName'')","value":""parameters(''tagValue'')"}}},"then":{"effect":"append","details":{"field":""[concat(''tags'',[""parameters(''tagName''), ''"])]","value":""parameters(''tagValue'')"}}},"id":"providers/Microsoft.Authorization/policyDefinitions/49c88fc8-6fd1-46fd-a676-f12d1d3a4c71","type":"Microsoft.Authorization/policyDefinitions","name":"49c88fc8-6fd1-46fd-a676-f12d1d3a4c71"},{"properties":{"displayName":"Microsoft Managed Control 1294 - Information System Backup | Transfer To Alternate Storage Site","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Contingency Planning control"},"metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1294"},"policyRule":{"if":{"allOf":["Microsoft.Resources/subscriptions/resourceGroups"],"value":false,"equals":true}],"then":{"effect":"audit"}},"id":"providers/Microsoft.Authorization/policyDefinitions/49db6e27-2c1e-438c-979e-dd7a39bbf81d","type":"Microsoft.Authorization/policyDefinitions","name":"49db6e27-2c1e-438c-979e-dd7a39bbf81d"},{"properties":{"displayName":"Microsoft Managed Control 1218 - Least Functionality | Prevent Program Execution","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Configuration Management control"},"metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1218"},"policyRule":{"if":{"allOf":["Microsoft.Resources/subscriptions/resourceGroups"],"value":false,"equals":true}],"then":{"effect":"audit"}},"id":"providers/Microsoft.Authorization/policyDefinitions/4a1d0394-b9f5-493e-9e83-563fd0ac4df8","type":"Microsoft.Authorization/policyDefinitions","name":"4a1d0394-b9f5-493e-9e83-563fd0ac4df8"},{"properties":{"displayName":"Microsoft Managed Control 1677 - 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/ACF1677"},"policyRule":{"if":{"allOf":["Microsoft.Resources/subscriptions/resourceGroups"],"value":false,"equals":true}],"then":{"effect":"audit"}},"id":"providers/Microsoft.Authorization/policyDefinitions/4b99653-32cd-405d-a135-e7d609aae1f","type":"Microsoft.Authorization/policyDefinitions","name":"4b99653-32cd-405d-a135-e7d609aae1f"},{"properties":{"displayName":"Append a tag and its value to resource groups","policyType":"BuiltIn","mode":"All","description":"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)."metadata":{"version":"1.0.0","category":"Tags"},"parameters":{"tagName":{"type":"String","metadata":{"displayName":"TagName","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":{"allOf":["Microsoft.Resources/subscriptions/resourceGroups"],"tag":{"key":""tags","name":""parameters(''tagName'')","value":""parameters(''tagValue'')"}}},"then":{"effect":"append","details":{"field":""[concat(''tags'',[""parameters(''tagName''), ''"])]","value":""parameters(''tagValue'')"}}},"id":"providers/Microsoft.Authorization/policyDefinitions/49b99653-32cd-405d-a135-e7d609aae1f","type":"Microsoft.Authorization/policyDefinitions","name":"49b99653-32cd-405d-a135-e7d609aae1f"}
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      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
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"name": ".4b1853e0-8973-446b-b567-bd83bf6804f",

"properties": {
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  "policyType": "BuiltIn",
  "mode": "Indexed",
  "description": "Audit Azure Event Grid topics that do not have at least one approved private endpoint connection. Clients in a virtual network can securely access resources that have private endpoint connections via private links. For more information, visit https://aka.ms/privateendpoints.",

  "metadata": {
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          "defaultValue": "Audit"
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  }
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"name": ".4b90e17e-8448-49db-875e-bd83bf6804f",

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  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this Audit and Accountability control",

  "metadata": {
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    "category": "Regulatory Compliance",
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  }
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"type": "Microsoft.Authorization/policyDefinitions",

"name": ".4c090801-59bc-4454-bb33-e0455133486a",

"properties": {
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  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this Incident Response control",

  "metadata": {
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    "category": "Regulatory Compliance",
    "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1364"
  }
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      "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
    }, {
      "value": false,
      "equals": "true"
    }]
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  "then": {
    "effect": "audit"
  }
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"properties": {
  "displayName": "Microsoft Managed Control 1661 - Session Authenticity | Invalidate Session Identifiers At Logout",
  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this System and Communications Protection control",

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      "equals": "true"
    }]
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    "effect": "audit"
  }
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"properties": {
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Managed Control 1373 - Incident Reporting | Automated Reporting, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1373"}, "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/4c643c9a-1be7-4016-a5e7-e4bada052920", "type": "Microsoft.Authorization/policyDefinitions", "name": "4c643c9a-1be7-4016-a5e7-e4bada052920"}, {"properties": {"displayName": "Microsoft Managed Control 1632 - Boundary Protection | Prevent Split Tunneling For Remote Devices", "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/ACF1632"}, "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/4cca950f-c3b7-492a-8e8f-ea39663c14f9", "type": "Microsoft.Authorization/policyDefinitions", "name": "4cca950f-c3b7-492a-8e8f-ea39663c14f9"}}, {"properties": {"displayName": "Deploy prerequisites to audit Linux VMs that do not have the specified applications installed", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Linux 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": "1.2.0", "category": "Guest Configuration"}, "requiredProviders": ["Microsoft.GuestConfiguration"], "parameters": {"ApplicationName": {"type": "String", "metadata": {"displayName": "Application names", "description": "A semicolon-separated list of the names of the applications that should be installed. e.g. 'python; powershell'"}}}, "policyRule": {"if": {"anyOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines"}, {"anyOf": [{"field": "Microsoft.Compute/imagePublisher", "in": ["microsoft-aks", "AzureDatabricks", "qubole-inc", "datatapx", "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": "R edHat"}, {"field": "Microsoft.Compute/imageOffer", "equals": "RHEL"}, {"field": "Microsoft.Compute/imageSKU", "notLike": "6*"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "RedHat"}, {"field": "Microsoft.Compute/imageOffer", "equals": "SLES*"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "Canonical"}, {"field": "Microsoft.Compute/imageOffer", "equals": "Ubuntu"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "SUSE"}, {"field": "Microsoft.Compute/imageOffer", "equals": "SLES*"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "SUSE"}, {"field": "Microsoft.Compute/imageOffer", "equals": "SLES*"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "Debian"}, {"field": "Microsoft.Compute/imageOffer", "equals": "Debian"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "Debian"}, {"field": "Microsoft.Compute/imageOffer", "equals": "SLES*"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "Debian"}, {"field": "Microsoft.Compute/imageOffer", "equals": "Ubuntu"}]}]}}}}
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[parameters("location")], "properties": [{"publisher": "Microsoft.GuestConfiguration", "type": "ConfigurationforLinux", "typeHandlerVersion": "1.0", "autoUpgradeMinorVersion": true, "settings": {}, "protectedSettings": {}}, "dependsOn": [
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"/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/", 
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"properties": [{"displayName": "Microsoft Managed Control 1155 - System Interconnections | Restrictions On External 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/ACF1155"}], 
"policyRule": 
{"if": {"allOf": [{"field": "type", "in": 
["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, 
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"then": [{"effect": "audit"}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/4d33f9f1-12d0-46ad-9fbd-8f8046694977"}], 
"properties": [{"displayName": "Microsoft Managed Control 1156 - Plan Of Action And Milestones", "policyType": "Static", 
"mode": "Indexed", 
"description": "Microsoft implements this Security Assessment and Authorization control", 
"metadata": 
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{"value": "false", "equals": "true"]}), 
"then": [{"effect": "audit"}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/4d52e864-9a3b-41ee-8f03-520815fe5378"}, 
"properties": [{"displayName": "Microsoft Managed Control 1312 - Identifier Management", "policyType": 
"Static", "mode": "Indexed", 
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"metadata": 
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"providers/Microsoft.PolicyInsights/policyMetadata/ACF1312"}], 
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{"if": {"allOf": [{"field": "type", "in": 
["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, 
{"value": "false", "equals": "true"]}), 
"then": [{"effect": "audit"}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/
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:
Deploy Diagnostic Settings for Data Lake Analytics to Event Hub

- Description: Deploys the diagnostic settings for Data Lake Analytics to stream to a regional Event Hub when any Data Lake Analytics which is missing this diagnostic settings is created or updated.

- Parameters:
  - **effect**: Enables or disables the execution of the policy.
  - **eventName**: The diagnostic settings profile name.
  - **eventHubLocation**: The location the Event Hub resides in. Only Data Lake Analytics in this location will be linked to this Event Hub.
  - **metricsEnabled**: Whether to enable metrics stream to the Event Hub.
  - **logsEnabled**: Whether to enable logs stream to the Event Hub.

- Rules:
  - *if*: Checks if the Data Lake Analytics account is in the specified location and matches the eventHubLocation.
  - *then*: Enables the diagnostic settings for the account.

- Deployment:
  - *properties*: Includes the necessary parameters for the deployment, such as the Event Hub name and location, and the diagnostics settings profile name.
Open Source Used In SDWan

Managed Control 1394 - System Maintenance Policy And Procedures

Managed Control 1702 - Information System Monitoring | Indicators Of Compromise

Managed Control 1001 - Access Control Policy And Procedures

Managed Control 1083 - Publicly Accessible Content

Managed Control 1579 - Acquisition Process | Use Of Approved Piv Products
implements this System and Services Acquisition
control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1579"},"policyRule
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urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/4e54c7ef-7457-430b-9a3eef8881d4a8e0","type":"Microsoft.Authorization/policyDefinitions","name":"4e54c7ef-7457-430b-9a3eef8881d4a8e0"},{"properties":{"displayName":"Microsoft
Managed Control 1247 - 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/ACF1247"},"policyRule
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Managed Control 1196 - 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/ACF1196"},"policyRule
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urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
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Managed Control 1134 - Protection Of Audit Information | Access By Subset
Of Privileged Users","policyType":"Static","mode":"Indexed","description":"Microsoft
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Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1134"},"policyRule
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urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
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Managed Control 1267 - Alternate Storage
Site","policyType":"Static","mode":"Indexed","description":"Microsoft
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urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
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Managed Control 1192 - Configuration Change Control | Automated Document /
Notification / Prohibition Of Changes","policyType":"Static","mode":"Indexed","description":"Microsoft
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Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1192"},"policyRule
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Managed Control 1139 - 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/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/4ebd97f7-b105-4f50-8daf-c51465991240" },

Managed Control 1182 - Baseline Configuration | Configure Systems, Components, Or Devices For High-Risk Areas, policyType: "Static", mode: "Indexed", description: "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/4f11b553-d42e-4e3a-89be-32ca364cad4c" },

Managed Control 1442 - Media Sanitization | Nondestructive Techniques, policyType: "Static", mode: "Indexed", description: "Microsoft implements this Media Protection control", metadata: {"version": "1.0.0", "category": "Regulatory Compliance"}, additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1442" }, "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/4f26049b-2c5a-4841-9ff3-d48a26aa4e75" },

A 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 security contact email address provided for your subscription"}]
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-d94a4d5cf1c7", "type": "Microsoft.Authorization/policyDefinitions", "name": "4f4f78b8-e367-4b10-a341-d94a4d5cf1c7"}, {"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\[\"\"\"]\)\]"}, "exists": false}, "then": {"effect": "modify", "details": {"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"], "operations": ["add", "field": ["concat\("tags\[\"\"\"]\)", parameters\("tagName\)"], "value": ["parameters\("tagValue\)"]]}}}, "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-preview", "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-4190f60d3a9", "type": "Microsoft.Authorization/policyDefinitions", "name": "501541f7-f7e7-4cd6-868c-4190f60d3a9"}, {"properties": {"displayName": "Microsoft Managed Control 1485 - Delivery And Removal", "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/ACF1485"}, "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/50301354-95d0-4a11-8af5-8039ec6fd38b", "type": "Microsoft.Authorization/policyDefinitions", "name": "50301354-95d0-4a11-8af5-8039ec6fd38b"}, {"properties": {"displayName": "Microsoft Open Source Used In SDWan 20.9.1 10601"}}
Managed Control 1646 - Cryptographic Key Establishment And Management | Asymmetric Keys

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/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": audit } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/506814fa-b930-4b10-894e-a45b98c40e1a" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "/2019-09-01 PolicyDefinitions/a45b98c40e1a", "properties": {"displayName": "Microsoft Managed Control 1646 - Cryptographic Key Establishment And Management" }

Managed Control 1566 - System Development Life Cycle

"Microsoft implements this System and Communications Protection 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/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": audit } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/50ad3724-e2ac-4716-afcc-d8eab97adb9" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "/2019-09-01 PolicyDefinitions/50ad3724-e2ac-4716-afcc-d8eab97adb9", "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)" ]}, {"field": "Microsoft.Network/connections/ipsecPolicies[*.ikeEncryption", "notIn": ["parameters(IKEEncryption)" ]}, {"field": "Microsoft.Network/connections/ipsecPolicies[*.ikeIntegrity", "notIn": ["parameters(IKEIntegrity)" ]}, {"field": "Microsoft.Network/connections/ipsecPolicies[*.dhGroup", "notIn": ["parameters(DHGroup)" ]}, {"field": "Microsoft.Network/connections/ipsecPolicies[*.pfsGroup", "notIn": ["parameters(PFSGroup)" ]}], "then": {"effect": ["parameters(effect)" ] ), "id": "/providers/Microsoft.Authorization/policyDefinitions/50b83b09-03da-41c1-b656-c293c914862b", "type": "Microsoft.Authorization/policyDefinitions", "name": "/2019-09-01 PolicyDefinitions/50b83b09-03da-41c1-b656-c293c914862b", "properties": {"displayName": "Microsoft
Managed Control 1248 - 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/ACF1248"},"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/50fc602d-d8e0-444b-a039-ad138ee5deb0"},"type":"Microsoft.Authorization/policyDefinitions","name":"50fc602d-d8e0-444b-a039-ad138ee5deb0"},"properties":{"displayName":"Microsoft
Managed Control 1386 - 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/ACF1386"},"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/5120193e-91fd-4f9d-bc6d-194f9734065"},"type":"Microsoft.Authorization/policyDefinitions","name":"5120193e-91fd-4f9d-bc6d-194f9734065"},"properties":{"displayName":"Microsoft
Managed Control 1352 - Incident Response Policy And Procedures","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1352"},"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/518cb545-bfa8-43f8-a108-3b7d5037469a"},"type":"Microsoft.Authorization/policyDefinitions","name":"518cb545-bfa8-43f8-a108-3b7d5037469a"},"properties":{"displayName":"Microsoft
Managed Control 1642 - Network Disconnect","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/ACF1642"},"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/53397227-5ee3-4b23-9e5e-c8a767ce6928"},"type":"Microsoft.Authorization/policyDefinitions","name":"53397227-5ee3-4b23-9e5e-c8a767ce6928"},"properties":{"displayName":"Connection throttling should be enabled for PostgreSQL database servers","policyType":"BuiltIn","mode":"Indexed","description":"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 failures."},"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"},"policyRule":{"if":{"field":"type","equals":"Microsoft.DBforPostgreSQL/servers"},"then":{"effect":{"parameters"("effect")""},"details":{"type":"Microsoft.DBforPostgreSQL/servers/configurations","name":"connection_throttling","existenceCondition":{"field":"Microsoft.DBforPostgreSQL/servers/configurations/value","equals":"ON"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/55f66330-0dcd-43f6-9d03-8d33f25b264a"}},
Open Source Used In SDWan

Managed Control 1467 - Visitor Access

- Microsoft

Managed Control 1183 - Baseline Configuration | Configure Systems, Components, Or Devices For High-Risk Areas

- Microsoft

Managed Control 1029 - Information Flow Enforcement | Security Policy Filters

- Microsoft

Managed Control 1270 - Alternate Storage Site | Recovery Time / Point Objectives

- Microsoft

Managed Control 1040 - Least Privilege | Review Of User Privileges

- Microsoft
Managed Control 1015 - Account Management | Disable Inactive Accounts

Managed Control 1026 - Account Management | Disable Accounts For High-Risk Individuals

Managed Control 1045 - Unsuccessful Logon Attempts

Managed Control 1523 - Personnel Transfer

Managed Control 1113 - Response To Audit Processing Failures | Audit Storage Capacity

Managed Control 1212 - Configuration Settings | Automated Central Management
Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1212" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resorceGroups"] }, { "value": "false", "equals": "true" } ], "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/56d970ee-4efc-49c8-8a4e-5916940d784e" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "56d970ee-4efc-49c8-8a4e-5916940d784e" }, { "properties": { "displayName": "Microsoft Managed Control 1403 - 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/ACF1403" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resorceGroups"] }, { "value": "false", "equals": "true" } ], "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/57149289-d52b-4f40-9fe6-5233c1e180f7" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "57149289-d52b-4f40-9fe6-5233c1e180f7" }, { "properties": { "displayName": "Microsoft Managed Control 1162 - 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/ACF1162" }, "policyRule": { "if": { "allOf": [ { "field": "type", "equals": "Microsoft.Web/sites" }, { "field": "kind", "like": "app*" } ], "then": { "effect": [ "paramaters(''effect'')" ] }, "details": { "type": "Microsoft.Web/sites/config", "existenceCondition": { "field": "Microsoft.Web/sites/config/web.cors.allowedOrigins[*]", "notEquals": "*" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/5770f3d6-8c2b-4f6f-bf0e-c8c8f8c36d592" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "5770f3d6-8c2b-4f6f-bf0e-c8c8f8c36d592" }, { "properties": { "displayName": "Microsoft Managed Control 1054 - Session 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/ACF1054" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resorceGroups"] }, { "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
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-ff1d-4979-a9f8-58bee1bf174c", type: "Microsoft.Authorization/policyDefinitions", name: "5864522b-ff1d-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": "Microsoft.Web/sites/config/web.minTlsVersion", "equals": "1.2"} } } },

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 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/imageOffer", "equals": "MicrosoftWindowsServer", "field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftSQLServer", "field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*" }], {"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-"}]

Open Source Used In SDWan 20.9.1 10608


Open Source Used In SDWan 20.9.1 10609
Open Source Used In SDWan 20.9.1

10611

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol. metadata:

"version": "1.1.0", "category": "Guest Configuration"},
"policyRule": {"if": 
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{"anyOf": [{"field": "Microsoft.Compute/imagePublisher", 
"in": ["microsoft-aks", "AzureDatabricks", "qubole", 
"databax", "couchbase", "scalegrid", "checkpoint", 
"palooanetworks"]}, 
{"allOf": [{"field": "Microsoft.Compute/imagePublisher", 
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{"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": "RHEL"}], 
{"field": "Microsoft.Compute/imageSKU", 
"notLike": "6*"}], 
{"allOf": [{"field": "Microsoft.Compute/imagePublisher", 
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{"field": "Microsoft.Compute/imageOffer", 
"equals": "osa"}], 
{"allOf": [{"field": "Microsoft.Compute/imagePublisher", 
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{"field": "Microsoft.Compute/imageOffer", 
"equals": "Debian"}], 
{"field": "Microsoft.Compute/imageSKU", 
"notLike": "7*"}], 
{"allOf": [{"field": "Microsoft.Compute/imagePublisher", 
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{"field": "Microsoft.Compute/imageSKU", 
"notLike": "11*"}], 
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"in": ["linux-data-science-vm-ubuntu", "azureml"]}], 
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{"allOf": [{"field": "Microsoft.Compute/imagePublisher", 
"equals": "microsoft-ads"}], 
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"like": "Linux*"}], 
{"allOf": [{"anyOf": [{"field": "Microsoft.Compute/virtualMachines/osProfile.linuxConfiguration", 
"exists": "true"}], 
{"field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType", 
"like": "Linux*"}], 
{"anyOf": [{"field": "Microsoft.Compute/imagePublisher", 
"exists": "false"}], 
{"field": "Microsoft.Compute/imagePublisher", 
"notIn": ["OpenLogic", "RedHat", "credativ", "Suse", "Canonical", 
"microsoft-dsvm", "cloudera", "microsoft-ads"]}], 
{"allOf": [{"field": "type", "equals": "Microsoft.HybridCompute/machines"}]
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"details": 
{"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments"}, 
"name": "not_installed_application_linux", 
"existenceCondition": 
{"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus", 
"equals": "Compliant"]}
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{id": "/providers/Microsoft.Authorizations/policyDefinitions/5b842acb-0fe7-41b0-9f40-8800e4ad84d8"}, 
{"type": "Microsoft.Authorizations/policyDefinitions", 
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{"properties": 
{"displayName": "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."
}}}
Registries should be encrypted with a Customer-Managed Key (CMK)

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

WEB app has "Client Certificates (Incoming client certificates)" set to "On"

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.

Deploy prerequisites to audit Windows VMs on which the remote host connection status does not match the specified one. 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

Open Source Used In SDWan 20.9.1  10613
Log Analytics 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 updated.", "metadata": {"version": "1.0.1", "category": "Monitoring"}, "parameters": {"listOfImageIdToInclude_windows": {"type": "Array", "metadata": {"displayName": "Optional: List of VM images that have supported Windows OS to add to scope", "description": "Example value: "/subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage"}, "defaultValue": []}, "listOfImageIdToInclude_linux": {"type": "Array", "metadata": {"displayName": "Optional: List of VM images that have supported Linux OS to add to scope", "description": "Example value: "/subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage"}, "defaultValue": []}},
Managed Control 1067 - 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/ACF1067" }, 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/5c5e54f6-0127-44d0-8b61-f31dc8dd6190", properties: {"displayName": "External accounts with write permissions should be removed from your subscription", "policyType": "BuiltIn", "mode": "All", description: "External accounts with write privileges should be removed from your subscription in order to prevent unmonitored access.", 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" } } } },
Managed Control 1665 - Process Isolation

Policy Type: Static, mode: Indexed, description: Microsoft implements this System and Communications Protection control

Microsoft Managed Control 1665 - Process Isolation

Policy Type:

Policy Name: Microsoft Managed Control 1665 - Process Isolation

Policy Type: Static, mode: Indexed, description: Microsoft implements this System and Communications Protection control

Policy Rule:

Microsoft implements this System and Communications Protection control

Policy Metadata:

Version: 1.0.0, Category: Regulatory Compliance, AdditionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1665

Policy Definition:

Id: /providers/Microsoft.Authorization/policyDefinitions/5df3a55c-8456-44d4-941e-175f79332512

Policy Name: [Deprecated]: Function App should only be accessible over HTTPS

Policy Type: BuiltIn, mode: All, description: Use of HTTPS ensures server/service authentication and protects data in transit from network layer eavesdropping attacks.

Policy Rule:

Microsoft implements this System and Communications Protection control

Policy Metadata:

Version: 1.0.0-deprecated, Category: Security Center, Deprecated: true, Parameters:

Policy Name: Microsoft Managed Control 1251 - Contingency Plan | Coordinate With Related Plans

Policy Type: Static, mode: Indexed, description: Microsoft implements this Contingency Planning control

Policy Rule:

Microsoft implements this Contingency Planning control

Policy Metadata:

Version: 1.0.0, Category: Regulatory Compliance, AdditionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1251

Policy Definition:

Id: /providers/Microsoft.Authorization/policyDefinitions/5e2b3730-8c14-4081-8893-19dbb5de7348

Policy Name: [Deprecated]: Audit Web Applications that are not using latest supported .NET Framework

Policy Type: BuiltIn, mode: All, description: Use the latest supported .NET Framework version for the latest security classes.

Policy Rule:

Audit Web Applications that are not using latest supported .NET Framework

Policy Metadata:

Version: 1.0.0-deprecated, Category: Security Center, Deprecated: true, Parameters:

Policy Name: Show audit results from Windows VMs that do not have the specified applications

Policy Type: Static, mode: Indexed, description: Show audit results from Windows VMs that do not 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 Windows virtual machines that do not have the specified applications 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.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"},"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*"},"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":"WhitelistedApplication","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus","equals":Compliant"}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/5e393799-e3ca-4e43-a9a5-0ec4648a57d9","type":"Microsoft.Authorization/policyDefinitions","name":"5e393799-e3ca-4e43-a9a5-0ec4648a57d9","properties":{"displayName":"Microsoft Managed Control 1116 - Audit Review, Analysis, And Reporting","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/ACF1116"},"policyRule ":{"if":{"anyOf":{"allOf":{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true"},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/5e47bc51-35d1-44b8-92af-e2f2d8b67635","type":"Microsoft.Authorization/policyDefinitions","name":"5e47bc51-35d1-44b8-92af-e2f2d8b67635","properties":{"displayName":"Microsoft Managed Control 1208 - 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/ACF1208"},"policyRule ":{"if":{"allOf":{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}}}}}}
Allow resource creation only in India data centers, "policyType": "BuiltIn", "mode": "Indexed", "description": "Allows resource creation in the following locations only: West India, South India, Central India", "metadata": {
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    "category": "General",
    "deprecated": true
}, "parameters": {}, "policyRule": {
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            "field": "location",
            "in": ["westindia", "southindia", "centralindia"]
        }
    },
    "then": {
        "effect": "Deny"
    }
};
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prerequisites to enable Guest Configuration policies on Windows VMs.

This definition allows Azure Policy to audit the Azure Policy for Windows extension on Windows VMs. The extension is a prerequisite for Guest Configuration policies.

For more information on Guest Configuration policies, visit https://aka.ms/gcpol.

---

Add or replace a tag on resources.

---

Existing resources can be remediated by triggering a remediation task. Does not modify tags on resource groups.

---
Accounts should use a virtual network service endpoint, "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any Storage Account not configured to use a virtual network service endpoint.

Audit results from Windows web servers that are not using secure communication protocols, "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 web servers that are not using secure communication protocols (TLS 1.1 or TLS 1.2). For more information on Guest Configuration policies, please visit https://aka.ms/gcpol."
Advanced Data Security on SQL servers, policyType: "BuiltIn", mode: "Indexed", description: "This policy enables Advanced Data Security on SQL Servers. This includes turning on Threat Detection and Vulnerability Assessment. It will automatically create a storage account in the same region and resource group as the SQL server to store scan results, with a "sqlva" prefix.", metadata: { "version": "1.0.0", "category": "SQL" }, parameters: [], policyRule: { "if": { "field": "type", "equals": "Microsoft.Sql/servers" }, "then": { "effect": "DeployIfNotExists", "details": { "type": "Microsoft.Sql/servers/securityAlertPolicies", "name": "Default", "existenceCondition": { "field": "Microsoft.Sql/securityAlertPolicies.state", "equals": "Enabled" }, "roleDefinitionIds": [ "/providers/microsoft.authorization/roleDefinitions/056cd41c-7e88-42e1-933e-88ba6a50c9c3", "/providers/microsoft.authorization/roleDefinitions/17d1049b-9a84-46fb-8f53-869881c3d3ab" ], "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" }, "location": { "type": "string" } }, "variables": { "serverResourceGroupName": resourceGroup().name, "subscriptionId": subscription().subscriptionId, "uniqueStorage": uniqueString(subscriptionId), "storageName": tolower(concat('sqlva', uniqueStorage)), "resources": [ { "type": "Microsoft.Sql/servers/securityAlertPolicies", "name": "Default", "apiVersion": "2017-03-01-preview", "location": "[parameters('location')]", "sku": { "name": "Standard_LRS" }, "kind": "StorageV2", "properties": { } }, { "name": concat(parameters("serverName"), "/Default"), "type": "Microsoft.Sql/servers/securityAlertPolicies", "apiVersion": "2017-03-01-preview", "properties": { "state": "Enabled", "emailAccountAdmins": true } } ] }, "dependsOn": [ "Microsoft.Storage/storageAccounts/" ], "recurringScans": { "isEnabled": true, "emailSubscriptionAdmins": true, "emails": [] }, "dependsOn": [ "Microsoft.Sql/servers/securityAlertPolicies/Default" ] }, "}], "dependencies": [ "Microsoft.Sql/servers/vulnerabilityAssessments/" ], "variables": { "storageContainerPath": concat(reference(resourceId("Microsoft.Storage/storageAccounts", variables("storageName"))).primaryEndpoints.blob, "vulnerability-assessment"), "storageAccountAccessKey": listKeys(resourceId("Microsoft.Storage/storageAccounts", variables("storageName"))).2018-02-01".keys[0].value, "recurringScans": { "isEnabled": true, "emailSubscriptionAdmins": true, "emails": [] } } }, "dependsOn": [ "Microsoft.Sql/servers/securityAlertPolicies/Default" ] }, "}], "parameters": [ { "name": "serverName", "value": [serverName] } ], "location": { "value": [location] } } ] }, "id": "/providers/Microsoft.Authorization/policyDefinitions/6134c3db-786f-471e-87bc-8f479dc890f6", "type": "Microsoft.Authorization/policyDefinitions", "name": "6134c3db-786f-471e-87bc-8f479dc890f6", "properties": { "displayName": "Preview: Configure time zone on Windows machines.", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to set specified time zone on Windows virtual machines.", "metadata": { "version": "1.1.0-preview", "category": "Guest Configuration", "requiredProviders": [ "Microsoft.GuestConfiguration" ], "preview": true }, "parameters": { "TimeZone": 116,
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Solomon Is., New Caledonia","(UTC+12:00) Anadyr, Petropavlovsk-Kamchatsky","(UTC+12:00)
Auckland, Wellington","(UTC+12:00) Coordinated Universal Time+12","(UTC+12:00)
Fiji","(UTC+12:00) Petropavlovsk-Kamchatsky - Old","(UTC+12:45) Chatham Islands","(UTC+13:00)
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Kiritimati
Island"]}},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines"},
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s/storageProfile.osDisk.osType","like":"Windows*"}]},{"anyOf":[{"field":"Microsoft.Compute/imageSKU","exists
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onParameter":[{"name":"[WindowsTimeZone]WindowsTimeZone1;TimeZone","value":"[parameters(''TimeZone'')]
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  'Microsoft.GuestConfiguration/',
  parameters("configurationName")),
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  ]]]]]},
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  'properties': {'displayName': 'Service
  Fabric clusters should have the ClusterProtectionLevel property set to EncryptAndSign',
  'policyType': 'BuiltIn',
  'mode': 'Indexed',
  'description': 'Service
  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',
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  'anyOf': ['field': 'Microsoft.ServiceFabric/clusterSettings[*.name], notEquals': 'Security'],
  'field': 'Microsoft.ServiceFabric/clusterSettings[*.parameters[*.value], notEquals': 'EncryptAndSign']
  }},
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  'additionalMetadataId': '/providers/Microsoft.PolicyInsights/policyMetadata/ACF1415'},
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  'value': 'false',
  'equals': 'true'],
  'then': {'effect': 'audit'}},
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  'name': '61a1dd98-b259-4840-abd5-fbba7ee0da83'}},
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  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',
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Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1682" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": "false", "equals": "true" } ] }, "then": { "effect": "auditIfNotExists" }, "details": { "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "AzureBaseline_SecurityOptionsSystemobjects", "existenceCondition": { "field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus", "equals": "Compliant" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/620e58b5-ac75-49b4-993f-a9d4f0459636" }, { "properties": { "displayName": "Managed Control 1682 - Malicious Code Protection | Nonsignature-Based Detection", "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/ACF1682" } }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": false, "equals": true } ] }, "then": { "effect": "auditIfNotExists" } } }

Show audit results from Windows VMs configurations in "Security Options - System objects". 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.

Microsoft Managed Control 1682 - Malicious Code Protection | Nonsignature-Based Detection

Microsoft implements this System and Information Integrity control, as required by regulatory compliance. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
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.

**Devices: Allowed to format and eject removable media**

- Specifies who is allowed to format and eject removable NTFS media.
- You can use this policy setting to prevent unauthorized users from removing data on one computer.

**Parameters**

- **DevicesAllowedToFormatAndEjectRemovableMedia**
  - **Type**: String
  - **Default Value**: "0"

**Deployment**

- **Deployment Parameters**:
  - **VM Name**: [field(‘name’)]
  - **Location**: [field(‘location’)]
  - **Configuration Name**: AzureBaseline_SecurityOptionsDevices

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- e8688fea053c
- "displayName": [Preview]

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.

**Devices: Allowed to format and eject removable media**

- Specifies who is allowed to format and eject removable NTFS media.
- You can use this policy setting to prevent unauthorized users from removing data on one computer.

**Parameters**

- **DevicesAllowedToFormatAndEjectRemovableMedia**
  - **Type**: String
  - **Default Value**: "0"

**Deployment**

- **Deployment Parameters**:
  - **VM Name**: [field(‘name’)]
  - **Location**: [field(‘location’)]
  - **Configuration Name**: AzureBaseline_SecurityOptionsDevices

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**Open Source Used In SD Wan 20.9.1 10631**

- e8688fea053c
- "displayName": [Preview]

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.

**Devices: Allowed to format and eject removable media**

- Specifies who is allowed to format and eject removable NTFS media.
- You can use this policy setting to prevent unauthorized users from removing data on one computer.

**Parameters**

- **DevicesAllowedToFormatAndEjectRemovableMedia**
  - **Type**: String
  - **Default Value**: "0"
Audit missing blob encryption for storage accounts, "policyType": "BuiltIn", "mode": "All", "description": "This policy is 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": ["Audit", "Disabled"], "defaultValue": "Audit" } }, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Storage/storageAccounts"] }, "not": {"field": "Microsoft.Storage/storageAccounts/enableBlobEncryption", "equals": "True" }] }, "then": {"effect": ["parameters(''effect'')"] }, "id": "/providers/Microsoft.Authorization/policyDefinitions/655cb504-bcee-4362-bd4c-402e6aaa38759" },
Managed Control 1319 - Authenticator

Microsoft implements this Identification and Authentication control.

Managed Control 1628 - Boundary Protection | External Telecommunications Services

Microsoft implements this System and Communications Protection control.

Managed Control 1377 - Incident Response Assistance | Coordination With External Providers

Microsoft implements this Incident Response control.

[Preview]: Deploy prerequisites to audit Windows VMs on which the Log Analytics agent is not connected as expected.

Connected workspace IDs:

"A semicolon-separated list of the workspace IDs that the Log Analytics agent should be connected to."

windows"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"microsoftads"},{"field":"Microsoft.Compute/imageOffer","in":["standard-data-science-vm","windows-data-sciencevm"]}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"batch"},{"field":"Microsoft.Compute/im
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":"WindowsLogAna
lyticsAgentConnection","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignme
nts/parameterHash","equals":"[base64(concat(''[LogAnalyticsAgent]LogAnalyticsAgent1;WorkspaceId'',
''='',
parameters(''WorkspaceId'')))]"},"deployment":{"properties":{"mode":"incremental","parameters":{"vmName":{"va
lue":"[field(''name'')]"},"location":{"value":"[field(''location'')]"},"type":{"value":"[field(''type'')]"},"configurationN
ame":{"value":"WindowsLogAnalyticsAgentConnection"},"WorkspaceId":{"value":"[parameters(''WorkspaceId'')]"
}},"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"},"WorkspaceId":{"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":"[LogAnalyticsAgent
]LogAnalyticsAgent1;WorkspaceId","value":"[parameters(''WorkspaceId'')]"}]}}},{"condition":"[equals(toLower(p
arameters(''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":"[LogAnalyticsAgent
]LogAnalyticsAgent1;WorkspaceId","value":"[parameters(''WorkspaceId'')]"}]}}},{"condition":"[equals(toLower(p
arameters(''type'')),
Name'')]","location":"[parameters(''location'')]"},{"condition":"[equals(toLower(parameters(''type'')),
toLower(''Microsoft.Compute/virtualMachines''))]","apiVersion":"2015-05-01preview","name":"[concat(parameters(''vmName''),

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Managed Control 1597 - 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/ACF1597" }, "policyRule": "{ "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Azure.Policy", "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": "false", "equals": "true" } ] }, "then": { "effect": "audit" } }, id": "/providers/Microsoft.Authorization/policyDefinitions/68511db2-bd02-41c4-ae6b-1900a012968a" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "68511db2-bd02-41c4-ae6b-1900a012968a" }, { "properties": { "displayName": "Microsoft Managed Control 1597 - Developer Configuration" }, "id": "/providers/Microsoft.Authorization/policyDefinitions/68511db2-bd02-41c4-ae6b-1900a012968a" }

Managed Control 1588 - 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/ACF1588" }, "policyRule": "{ "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Azure.Policy", "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": "false", "equals": "true" } ] }, "then": { "effect": "audit" } }, id": "/providers/Microsoft.Authorization/policyDefinitions/68ebae26-e0e0-4ecb-8379-aabf633b51e9" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "68ebae26-e0e0-4ecb-8379-aabf633b51e9" }, { "properties": { "displayName": "Microsoft Managed Control 1588 - External Information System Services" }, "id": "/providers/Microsoft.Authorization/policyDefinitions/68ebae26-e0e0-4ecb-8379-aabf633b51e9" }


Managed Control 1727 - Memory 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/ACF1727" }, "policyRule": "{ "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Azure.Policy", "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": "false", "equals": "true" } ] }, "then": { "effect": "audit" } }, id": "/providers/Microsoft.Authorization/policyDefinitions/697175a7-9715-4e89-b9b8-c66650588f03" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "697175a7-9715-4e89-b9b8-c66650588f03" }, { "properties": { "displayName": "Microsoft Managed Control 1727 - Memory Protection" }, "id": "/providers/Microsoft.Authorization/policyDefinitions/697175a7-9715-4e89-b9b8-c66650588f03" }

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": [{"field": "type", "equals": "Microsoft.HybridCompute/machines"}, {"field": "Microsoft.HybridCompute/imageOffer", "like": "windows*"}]}}, "then": {"effect": "deployIfNotExists", "details": {"type": "Microsoft.HybridCompute/machines/extensions", "roleId": "/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"}, {"field": "Microsoft.HybridCompute/machines/extensions/provisioningStage", "equals": "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": [{"name": [concat(parameters('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')).parameters('workspaceId')], "stopOnMultipleConnections": true}], "protectedSettings": {"workspaceKey": [listKeys(parameters('logAnalytics')).primarySharedKey] } } ] }, "outputs": {"policy": {"type": "string", "value": [concat("Enabled extension for VM ", parameters('vmName'))] } } }, "parameters": {"vmName": {"value": [field("name")], "location": [field("location")], "logAnalytics": {"value": [parameters('logAnalytics')] } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/69af7d4a-7b18-4044-93a9-2651498ef203", "type": "Microsoft.Authorization/policyDefinitions", "name": "69af7d4a-7b18-4044-93a9-2651498ef203" }, {"properties": {"displayName": "Microsoft Managed Control 1699 - Information System Monitoring | Privileged Users", "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/ACF1699"};"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/69c7bee8-bc19-4129-a51e-65a7b93d3c7c","type":"Microsoft.Authorization/policyDefinitions","name":"69c7bee8-bc19-4129-a51e-65a7b93d3c7c"};"properties":{"displayName":"Microsoft
Managed Control 1696 - Information System Monitoring | Correlate Monitoring
Information","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/ACF1696"};"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/69d2a238-20ab-4206-a6dc-f302bf88b1b8","type":"Microsoft.Authorization/policyDefinitions","name":"69d2a238-20ab-4206-a6dc-f302bf88b1b8"};"properties":{"displayName":"Microsoft
Managed Control 1244 - 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/ACF1244"};"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/6a13a8f8-c163-4b1b-8554-d63569dab937","type":"Microsoft.Authorization/policyDefinitions","name":"6a13a8f8-c163-4b1b-8554-d63569dab937"};"properties":{"displayName":"Microsoft
Managed Control 1019 - Account Management | Role-Based
Schemes","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Access Control control";"metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1019"};"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/6a3ee9b2-3977-459c-b8ce-2db583ab9f17","type":"Microsoft.Authorization/policyDefinitions","name":"6a3ee9b2-3977-459c-b8ce-2db583ab9f17"};"properties":{"displayName":["deprecated":
 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","metadata":{"version":"1.1.0-deprecated","category":"Guest
Configuration","requiredProviders": ["Microsoft.GuestConfiguration"],"deprecated":true,"parameters":{"NotAvailableMachineState":{"type":"String","metadata":{"displayName":["deprecated":
 State in which to show VMs on which Windows Defender Exploit Guard is not
available","description":"Windows Defender Exploit Guard is only available
starting with Windows 10/Windows Server with update 1709. Setting this value

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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.

### Policy Rule

- **If**: Any of:
  - All of:
    - Field: `type`, equals: `Microsoft.Compute/virtualMachines`
    - Any of:
      - Field: `Microsoft.Compute/imagePublisher`, in: `"esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]`, all of:
      - all of:
        - Field: `Microsoft.Compute/imagePublisher`, equals: `"MicrosoftSQLServer",`, field: `Microsoft.Compute/imageOffer`, notLike: `"SQL2008*"`,
      - all of:
      - all of:
      - all of:
        - Field: `Microsoft.Compute/imagePublisher`, equals: `"batch",`, field: `Microsoft.Compute/imageOffer`,
      - all of:
        - Field: `Microsoft.Compute/imagePublisher`, equals: `"center-for-internet-security-inc",`, field: `Microsoft.Compute/imageOffer`, like: `"cis-windows-server-201*",`
      - all of:
        - Field: `Microsoft.Compute/imagePublisher`, equals: `"pivotal",`, field: `Microsoft.Compute/imageOffer`, like: `"bosh-windows-server-*",`
      - all of:
        - Field: `Microsoft.Compute/imagePublisher`, equals: `"cloud-infrastructure-services",`, field: `Microsoft.Compute/imageOffer`, like: `"ad*",`
      - all of:
        - Field: `Microsoft.Compute/imagePublisher`, exists: `true`, field: `Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration`, exists: `true`,
      - Field: `Microsoft.Compute/imageSKU`, notLike: `"2008*",`
      - Field: `Microsoft.Compute/imageOffer`, notLike: `"SQL2008*"`,

- Any of:
  - field: `Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration`, exists: `true`
  - Field: `Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration.windowsType`, equals: `"Windows*",`

- All of:
  - Field: `Microsoft.HybridCompute/imageOffer`, like: `"windows*",`

- All of:
  - Any of:
    - field: `Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments/parameterHash"`, equals: `base64(concat(["Windows Defender Exploit Guard"],[Windows Defender Exploit Guard]Windows Defender Exploit Guard1;NotAvailableMachineState","")),
      - All of:
        - Property: `mode`, value: `incremental`
        - parameters: `NotAvailableMachineState`]

- Deployment:
  - properties: `mode`: `incremental`
  - parameters: `vmName`, `location`, `type`, `configurationName`, `NotAvailableMachineState`
  - template: `$schema`: `https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#`, `contentVersion`': `1.0.0.0`, `parameters`: `vmName`, `location`, `type`, `configurationName`, `NotAvailableMachineState`
  - toLower: `microsoft.hybridcompute/machines/providers/guestConfigurationAssignments/parameterHash"`, equals: `base64(concat(["Windows Defender Exploit Guard"],[Windows Defender Exploit Guard]Windows Defender Exploit Guard1;NotAvailableMachineState")`
Audit IP restrictions configuration for a Web Application.

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.

"Effect": "Enable or disable the execution of the policy",
"allowedValues": ["AuditIfNotExists", "Disabled"],
"defaultValue": "AuditIfNotExists"

Microsoft Managed Control 1211 - Configuration Settings.

Microsoft implements this Configuration Management control, which sets a "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1211", "policyRule": {"if": {"allOf": ["type": "Microsoft.Web/sites", "anyOf": ["kind": "app", "kind": "WebApp", "kind": "app,linux", "kind": "app,linux,container"]], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/6a8b9dc8-6b00-4701-aa96-bba3277ebf50", "displayName": "[Deprecated]: 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 implements this System and Communications Protection control, "Microsoft Managed Control 1653 - Mobile Code", policyType: "Static", mode: "Indexed", description: "Microsoft implemented this System and Communications Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1653" }, "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/web.minTlsVersion", "equals": "1.2" } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/6ad61431-88ce-4357-a0e1-6da43f292bd7", "name": "6ad61431-88ce-4357-a0e1-6da43f292bd7" }, {"properties": {"displayName": "Deprecated accounts should be removed from your subscription", "policyType": "BuiltIn", "mode": "All", "description": "Deprecated accounts should be removed from your subscriptions. Deprecated accounts are accounts that have been blocked from signing in.", "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", "in": ["Microsoft.Resources/subscriptions/resourceGroups"] }, "then": {"effect": "[parameters(''effect'')]"}, "details": {"type": "Microsoft.Security/complianceResults", "name": "RemoveDeprecatedAccounts", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"] } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/6b1c00a7-7fd0-42b0-8c5b-e45f6fa1f71b", "name": "6b1c00a7-7fd0-42b0-8c5b-e45f6fa1f71b" }, {"properties": {"displayName": "Deploy Diagnostic Settings for Service Bus to Event Hub", "policyType": "BuiltIn", "mode": "Indexed", "description": "Deploys the diagnostic settings for Service Bus to stream to a regional Event Hub when any Service Bus which is missing this diagnostic settings is created 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" } } },
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- **Event Hub Authorization Rule Id** - 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}.

- **Event Hub Location** - The location the Event Hub resides in. Only Service Bus 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.

- **Microsoft Managed Control 1031 - Separation Of Duties** - 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.Authorization/roleDefinitions", "Microsoft.Authorization/roleAssignments", "Microsoft.Authorization/roleDefinitionResources"]}, {"anyOf": ["Microsoft.Authorization/roleAssignments"], "equals": "true"}]}, 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/b24988ac-6180-42a0-ab88-20f7382dd24c"], "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"}, "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"]}, {"properties": {"displayName": "Microsoft 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.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "audit"}}}, "id": ["providers/Microsoft.Authorization/policyDefinitions/6b93a801-fe25-4574-a60d-"}]}
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-bf13-4046-b993-b9e2aef0f76c","type": "Microsoft.Authorization/policyDefinitions","name": "6c112d4e-bf13-4046-b993-b9e2aef0f76c"}, {"properties": {"displayName": "Not allowed resource types", "strongType": "resourceTypes"}}}]}, "policyRule": {"if": {"field": "type", "in": parameters("listOfResourceTypesNotAllowed")}, "then": {"effect": "Deny"}}, "id": /providers/Microsoft.Authorization/policyDefinitions/6c112d4e-bf13-4046-b993-b9e2aef0f76c","type": "Microsoft.Authorization/policyDefinitions","name": "6c112d4e-bf13-4046-b993-b9e2aef0f76c"}, {"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.Resources/subscriptions", "Microsoft.Resources/subscriptions/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}, "id": /providers/Microsoft.Authorization/policyDefinitions/6c112d4e-bf13-4046-b993-b9e2aef0f76c","type": "Microsoft.Authorization/policyDefinitions","name": "6c112d4e-bf13-4046-b993-b9e2aef0f76c Bailey's text continued...
Managed Control 1643 - Cryptographic Key Establishment And Management, "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/ACF1643" }, "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/6d8d492c-dd7a-46f7-a723-fa66a425b87c" }, {"properties": {"displayName": "Microsoft Managed Control 1291 - Information System Backup | Testing For Reliability and Integrity, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1291" }, "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/6d8fd073-9c85-4ee2-a9d0-2e4ec9eb8912" }, {"properties": {"displayName": "Microsoft Managed Control 1175 - Configuration Management Policy And Procedures, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1175" }, "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/6dab4254-c30d-4bb7-ae99-1d21586c063c" }, {"properties": {"displayName": "Microsoft Managed Control 1651 - 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/ACF1651" }, "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/6db63528-c9ba-491c-8a80-1d21586c063c" },
Allow Security Center to auto provision the Log Analytics agent on your subscriptions to monitor and collect security data using ASC default workspace.

**Microsoft.Authorization/policyDefinitions/6db63528-491c-8a80-83e1e6977a50**

- **DisplayName**: Enable Security Center’s auto provisioning of the Log Analytics agent on your subscriptions with default workspace.
- **PolicyType**: BuiltIn
- **Mode**: All
- **Description**: Allow Security Center to auto provision the Log Analytics agent on your subscriptions to monitor and collect security data using ASC default workspace.
- **Metadata**: 
  - **Version**: 1.0.0
  - **Category**: Security Center

**Microsoft.Authorization/policyDefinitions/6e2593d9-add6-4083-9c9b-4b7d2188c899**

- **DisplayName**: Email notification for high severity alerts should be enabled
- **PolicyType**: BuiltIn
- **Mode**: All
- **Description**: Enable emailing security alerts to the security contact, in order to have them receive security alert emails from Microsoft. This ensures that the right people are aware of any potential security issues and are able to mitigate the risks.
- **Metadata**: 
  - **Version**: 1.0.0
  - **Category**: Security Center

**Microsoft.Authorization/policyDefinitions/6e3b2fbd-8f37-4766-a64d-3f37703dcb51**

- **DisplayName**: Microsoft Managed Control 1586 - 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

**Microsoft.Authorization/policyDefinitions/6e3b2fbd-8f37-4766-a64d-3f37703dcb51**

- **DisplayName**: Microsoft Managed Control 1536 - Risk Assessment Policy And Procedures
- **PolicyType**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Risk Assessment control.
- **Metadata**: 
  - **Version**: 1.0.0
  - **Category**: Regulatory Compliance
Show audit results from Windows VMs configurations in "Security Options - Microsoft Network Server", "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 - Microsoft Network Server". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"
or disable the execution of the policy}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}, "WindowsPythonLatestVersion": {"type": "String", "metadata": {"displayName": "Windows Latest Python version"}, "defaultValue": "3.6"}, "LinuxPythonLatestVersion": {"type": "String", "metadata": {"displayName": "Linux Latest Python version"}, "defaultValue": "3.8"}, "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.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.pythonVersion", "equals": ""}], "allOf": [{"field": "Microsoft.Web/sites/config/web.pythonVersion", "equals": ""}], "allOf": [{"field": "Microsoft.Web/sites/config/web.pythonVersion", "equals": ""}]}}}, "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": {"type": "String", "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": {"type": "String", "metadata": {"displayName": "[Preview]: Allow indexing of encrypted files"}, "description": "Specifies whether encrypted items are allowed to be indexed."}, "defaultValue": "0"}, "AllowTelemetry": {"type": "String", "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": {"type": "String", "metadata": {"displayName": "[Preview]: 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"
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":{
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"displayName":"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":"Configure Default consent","description":"Specifies setting of the default consent handling for error reports sent to Microsoft."},"defaultValue":"4"},"ConfigureWindowsSmartScreen":{"type":"String","metadata":{
"displayName":"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":"Disallow Digest authentication","description":"Specifies whether the Windows Remote Management (WinRM) client will not use Digest authentication."},"defaultValue":"0"},"DisallowWinRMFromStoringRunAsCredentials":{"type":"String","metadata":{
"displayName":"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":"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":"Security: Specify the maximum log file size (KB)","description":"Specifies the maximum size for the Security event log in kilobytes."},"defaultValue":"196608"},"SetClientConnectionEncryptionLevel":{"type":"String","metadata":{
"displayName":"Set client connection encryption level","description":"Specifies whether to require the use of a specific encryption level to secure communications between client computers and RD Session Host servers during Remote Desktop Protocol (RDP) connections. This policy only applies when you are using native RDP
encryption.

- **SetTheDefaultBehaviorForAutoRun**: Specifies the default behavior for Autorun commands. Autorun commands are generally stored in autorun.inf files. They often launch the installation program or other routines.

- **SetupSpecifyTheMaximumLogFileSizeKB**: Specifies the maximum size for the Setup event log in kilobytes.

- **SystemSpecifyTheMaximumLogFileSizeKB**: Specifies the maximum size for the System event log in kilobytes.

- **TurnOffDataExecutionPreventionForExplorer**: Specifies whether to turn off Data Execution Prevention for Windows File Explorer. Disabling data execution prevention can allow certain legacy plug-in applications to function without terminating Explorer.

- **SpecifyTheIntervalToCheckForDefinitionUpdates**: Specifies an interval at which to check for Windows Defender definition updates. The time value is represented as the number of hours between update checks.

- **policyRule**: [This part is not clearly visible in the image, but it likely includes conditions and actions related to the policy settings for different virtual machine images and types.]

- **effect**: `deployIfNotExists`
parameters("SendFileSamplesWhenFurtherAnalysisIsRequired"),
    ",", "Do not allow passwords to be saved;ExpectedValue", "=", parameters("DoNotAllowPasswordsToBeSaved"),
    ",", "Set client connection encryption level;ExpectedValue", "=", parameters("SetClientConnectionEncryptionLevel"),
    ",", "Set the default behavior for AutoRun;ExpectedValue", "=", parameters("SetTheDefaultBehaviorForAutoRun"),
    ",", "Turn off Data Execution Prevention for Explorer;ExpectedValue", "=", parameters("TurnOffDataExecutionPreventionForExplorer"),
    ",", "Specify the interval to check for definition updates;ExpectedValue", "=", parameters("SpecifyTheIntervalToCheckForDefinitionUpdates()")], "deployment": {"properties": {"mode": "incremental", "parameters": {"vmName": {"value": "[field('name')]"}, "location": {"value": "[field('location')]"}, "type": "[value:\"[field('type')]\"]", "configurationName": {"value": "AzureBaseline_WindowsComponents"}, "SendFileSamplesWhenFurtherAnalysisIsRequired": {"value": "[parameters('SendFileSamplesWhenFurtherAnalysisIsRequired')]"}, "AllowIndexingOfEncryptedFiles": {"value": "[parameters('AllowIndexingOfEncryptedFiles')]"}, "AllowTelemetry": {"value": "[parameters('AllowTelemetry')]"}, "AllowUnencryptedTraffic": {"value": "[parameters('AllowUnencryptedTraffic')]"}, "AlwaysInstallWithElevatedPrivileges": {"value": "[parameters('AlwaysInstallWithElevatedPrivileges')]"}, "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')]"}, "SpecifyTheIntervalToCheckForDefinitionUpdates": {"value": "[parameters('SpecifyTheIntervalToCheckForDefinitionUpdates')]"}}]
}

"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"}, "AlwaysInstallWithElevatedPrivileges": {"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/")), "properties": {"guestConfiguration": {"name": parameters("configurationName"), "version": "1.0", "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": "Application: Specify the maximum log file size (KB);ExpectedValue", "value": "[parameters("ApplicationSpecifyTheMaximumLogFileSizeKB")]", "name": "Automatically send memory dumps for OS-generated error reports;ExpectedValue", "value": "[parameters("AutomaticallySendMemoryDumpsForOSgeneratedErrorReports")]", "name": "Default consent;ExpectedValue", "value": "[parameters("ConfigureDefaultConsent")]", "name": "Configure Windows"}}]"}}
SmartScreen: Expected Value, "value": parameters("ConfigureWindowsSmartScreen")

Disallow Digest authentication: Expected Value, "value": parameters("DisallowDigestAuthentication")

Disallow WinRM from storing RunAs credentials: Expected Value, "value": parameters("DisallowWinRMFromStoringRunAsCredentials")

Do not allow passwords to be saved: Expected Value, "value": parameters("DoNotAllowPasswordsToBeSaved")

Security: Specify the maximum log file size (KB): Expected Value, "value": parameters("SecuritySpecifyTheMaximumLogFileSizeKB")

Set client connection encryption level: Expected Value, "value": parameters("SetClientConnectionEncryptionLevel")

Do not allow passwords to be saved: Expected Value, "value": parameters("DoNotAllowPasswordsToBeSaved")

Set the default behavior for AutoRun: Expected Value, "value": parameters("SetTheDefaultBehaviorForAutoRun")

Specify the maximum log file size (KB): Expected Value, "value": parameters("SetupSpecifyTheMaximumLogFileSizeKB")

System: Specify the maximum log file size (KB): Expected Value, "value": parameters("SystemSpecifyTheMaximumLogFileSizeKB")

Turn off Data Execution Prevention for Explorer: Expected Value, "value": parameters("TurnOffDataExecutionPreventionForExplorer")

Specify the interval to check for definition updates: Expected Value, "value": parameters("SpecifyTheIntervalToCheckForDefinitionUpdates")

Application: Specify the maximum log file size (KB): Expected Value, "value": parameters("ApplicationSpecifyTheMaximumLogFileSizeKB")

Allow indexing of encrypted files: Expected Value, "value": parameters("AllowIndexingOfEncryptedFiles")

Allow Telemetry: Expected Value, "value": parameters("AllowTelemetry")

Allow unencrypted traffic: Expected Value, "value": parameters("AllowUnencryptedTraffic")

Always install with elevated privileges: Expected Value, "value": parameters("AlwaysInstallWithElevatedPrivileges")

Always prompt for password upon connection: Expected Value, "value": parameters("AlwaysPromptForPasswordUponConnection")

Specify the maximum log file size (KB): Expected Value, "value": parameters("ApplicationSpecifyTheMaximumLogFileSizeKB")

Automatically send memory dumps for OS-generated error reports: Expected Value, "value": parameters("AutomaticallySendMemoryDumpsForOSgeneratedErrorReports")

Configure

Open Source Used In SDWan 20.9.1 10653
Default consent: Expected Value
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: Turn off Data Execution Prevention for Explorer: Expected Value
Specify the interval to check for definition updates: Expected Value

Show audit results from Windows VMs configurations in "System Audit Policies - 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: "System Audit Policies - System". 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: "System Audit Policies - System". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Managed Control 1691 - Information System Monitoring | Automated Tools For Real-Time Analysis

Managed Control 1481 - Temperature And Humidity Controls

Managed Control 1129 - Time Stamps | Synchronization With Authoritative Time Source

Managed Control 1395 - System Maintenance Policy And Procedures

Show audit results from Windows VMs on which the DSC configuration is not compliant. 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 VMs on which the Desired State Configuration (DSC) configuration is not compliant. This policy is only applicable to machines with WMF 4 and above. For more
information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":"1.0.0preview","category":"Guest
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e/virtualMachines"},{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","Microsoft
DynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsS
erverHPCPack"]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"
field":"Microsoft.Compute/imageSKU","notLike":"2008*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublish
er","equals":"MicrosoftSQLServer"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]},{"allOf"
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
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s/storageProfile.osDisk.osType","like":"Windows*"}]},{"anyOf":[{"field":"Microsoft.Compute/imageSKU","exists
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ageOffer","notLike":"SQL2008*"}]}]}]}]}]},{"allOf":[{"field":"type","equals":"Microsoft.HybridCompute/machin
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details":{"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"WindowsDscConfigurati
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s","equals":"Compliant"}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/7227ebe5-9ff7-47abb823-171cd02fb90f","type":"Microsoft.Authorization/policyDefinitions","name":"7227ebe5-9ff7-47ab-b823171cd02fb90f"},{"properties":{"displayName":"[Preview]:
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.Comput
e/virtualMachines"},{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","Microsoft
DynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsS
erverHPCPack"]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"
field":"Microsoft.Compute/imageSKU","notLike":"2008*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublish
er","equals":"MicrosoftSQLServer"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]},{"allOf"

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ageOffer","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.odataType","like": "Windows*"}],{"anyOf": [{"field":"Microsoft.Compute/imageSKU","exists":true}, {"allOf": [{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"}, {"field":"Microsoft.Compute/imageOffer","like":"SQL2008*"}],{"allOf": [{"field":"type","equals": "Microsoft.Compute/virtualMachines"}, {"field": "Microsoft.Compute/imageSKU","like": "windows*"}]}], then: {"effect": "auditIfNotExists"}, details: {"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments","name": "AzureBaseline_AdministrativeTemplatesNetwork","existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus","equals": "Compliant"}}}]}}, {"id": "/providers/Microsoft.Authorization/policyDefinitions/7229bd6a-693d-478a-87f0-1dc1af06f3b8"}, {"type": "Microsoft.Authorization/policyDefinitions","name": "7229bd6a-693d-478a-87f0-1dc1af06f3b8"}, {"properties": {"displayName": "Ensure that "Python version" is the latest, if used as a part of the Function 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 Function 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 Services"}, 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": "functionapp*"}]}, 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": ""}]}, then: {"effect": "auditIfNotExists"}, details: {"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments","name": "AzureBaseline_AdministrativeTemplatesNetwork","existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus","equals": "Compliant"}]}}}, {"id": "/providers/Microsoft.Authorization/policyDefinitions/7238174a-fd10-4ef0-817e-fc820a951d73"}, {"type": "Microsoft.Authorization/policyDefinitions","name": "7238174a-fd10-4ef0-817e-fc820a951d73"}, {"properties": {"displayName": "Ensure that "PHP version" is the latest, if used as a part of the WEB app", "policyType": "BuiltIn", "mode": "Indexed", "description": "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,"}
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.
Open Source Used In SDWan 20.9.1

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Managed Control 1524 - Personnel Transfer

Policies:
- **Policy Name:** Microsoft Managed Control 1524 - Personnel Transfer
- **Policy Type:** Static
- **Mode:** Indexed
- **Description:** Microsoft implements this Personnel Security control.
- **Metadata:**
  - **Version:** 1.0.0
  - **Category:** Regulatory Compliance
  - **Additional Metadata Id:** /providers/Microsoft.PolicyInsights/policyMetadata/ACF1524

Policy Rule:
- **If:**
  - AllOf:
    - Field: type
      - In: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
    - Value: false
    - Equals: True
- **Then:**
  - Effect: audit

Condition:
- **Condition Type:** Microsoft
  - **Condition Name:** Deployment

Managed Control 1393 - Information Spillage Response | Exposure To Unauthorized Personnel

Policies:
- **Policy Name:** Microsoft Managed Control 1393 - Information Spillage Response | Exposure To Unauthorized Personnel
- **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/ACF1393

Policy Rule:
- **If:**
  - AllOf:
    - Field: type
      - In: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
    - Value: false
    - Equals: True
- **Then:**
  - Effect: audit

Condition:
- **Condition Type:** Microsoft
  - **Condition Name:** Deployment

Managed Control 1101 - Audit And Accountability Policy And Procedures

Policies:
- **Policy Name:** Microsoft Managed Control 1101 - Audit And Accountability Policy And Procedures
- **Policy Type:** Static
- **Mode:** Indexed
- **Description:** Microsoft implements this Audit and Accountability control.
- **Metadata:**
  - **Version:** 1.0.0
  - **Category:** Regulatory Compliance
  - **Additional Metadata Id:** /providers/Microsoft.PolicyInsights/policyMetadata/ACF1101

Policy Rule:
- **If:**
  - AllOf:
    - Field: type
      - In: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
    - Value: false
    - Equals: True
- **Then:**
  - Effect: audit

Condition:
- **Condition Type:** Microsoft
  - **Condition Name:** Deployment

Managed Control 1456 - Physical Access Control

Policies:
- **Policy Name:** Microsoft Managed Control 1456 - Physical Access Control
- **Policy Type:** Static
- **Mode:** Indexed
- **Description:** Microsoft implements this Physical and Environmental Protection control.
- **Metadata:**
  - **Version:** 1.0.0
  - **Category:** Regulatory Compliance
  - **Additional Metadata Id:** /providers/Microsoft.PolicyInsights/policyMetadata/ACF1456

Policy Rule:
- **If:**
  - AllOf:
    - Field: type
      - In: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
    - Value: false
    - Equals: True
- **Then:**
  - Effect: audit

Condition:
- **Condition Type:** Microsoft
  - **Condition Name:** Deployment

Workflow Automation for Azure Security Center recommendations

Policies:
- **Policy Name:** Microsoft Managed Control 1456 - Physical Access Control
- **Policy Type:** 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.
- **Metadata:**
  - **Version:** 1.0.0
  - **Category:** Security Center

Parameters:
- **Automation Name:**
  - **Type:** String
  - **Metadata:** Display Name: 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"},"recommendationNames":{"type":"Array","metadata":{"displayName":"Recommendation IDs","description":"For all recommendations, leave empty. For specific recommendations, enter a list of recommendation IDs separated by semicolons (";"). Recommendation IDs are available through the Assessments API (https://docs.microsoft.com/en-us/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":"Determines recommendation severities. Example: High;Medium;Low;","allowedValues":[]},"defaultValue":[]},"recommendationStates":{"type":"Array","metadata":{"displayName":"Recommendation states","description":"Determines recommendation states. Recommendations with unhealthy state require your attention to resolve. When a recommendation state is healthy, it no longer applies to the resource as Security Center detects it as healthy. A recommendation is not-applicable if, for example, it was disabled in the Security Policy. Example: Healthy;Unhealthy;Not Applicable;","allowedValues":[]},"logicAppResourceId":{"type":"String","metadata":{"displayName":"Logic App","description":"The Logic App that is triggered. If you do not already have a logic app, visit Logic Apps to create one (https://portal.azure.com/#blade/HubsExtension/BrowseResourceBlade/resourceType/Microsoft.Logic%2Fworkflows),","strongType":"Microsoft.Logic/workflows","assignPermissions":true}},"logicAppTrigger":{"type":"String","metadata":{"displayName":"Logic app trigger","description":"The trigger connector of the logic app that is triggered. Possible values: Manual (Incoming HTTP request), When an Azure Security Center Recommendation is created or triggered."}}},"policyRule":{"if":{"field":"type","equals":"Microsoft.Resources/subscriptions"},"then":{"effect":"deployIfNotExists","details":{"type":"Microsoft.Security/automations","name":"[parameters("automationName")]","existenceScope":"resourceGroup","resourceGroupName":"[parameters("resourceGroupName")]","deploymentScope":"subscription","roleDefinitionIds":["providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd24c"],"deployment":{"location":"westeurope","properties":{"mode":"incremental","template":{"$schema":"https://schema.management.azure.com/schemas/2018-05-01/subscriptionDeploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":["automationName"]:"string"},"resourceGroupName":["string"],"resourceGroupLocation":["string"],"recommendationNames":["array"],"recommendationSeverities":["array"],"recommendationStates":["array"],"logicAppResourceId":"string"}}}
propertyType": "string", "expectedValue": "[variables('stateMap')[parameters('recommendationStates')][mod(div(copyIndex('ruleSets'), variables('totalRuleCombinationsForOneRecommendationState')) % variables('recommendationStatesLength'))]]", "operator": "Contains"], "actions": ["actionType": "LogicApp", "logicAppResourceId": "[parameters('logicAppResourceId')]", "uri": "listCallbackUrl(concat(parameters('logicAppResourceId'), "/triggers/", variables('triggerMap')[parameters('logicAppTrigger')]), "2016-01-01").value"]], "parameters": ["automationName": "[parameters('automationName')]", "resourceGroupName": "[parameters('resourceGroupName')]", "resourceGroupLocation": "[parameters('resourceGroupLocation')]", "recommendationNames": "[parameters('recommendationNames')]", "recommendationSeverities": "[parameters('recommendationSeverities')]", "recommendationStates": "[parameters('recommendationStates')]", "logicAppResourceId": "[parameters('logicAppResourceId')]", "logicAppTrigger": "[parameters('logicAppTrigger')]"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/73d6ab6c-2475-4850-adf6-43795f3492ef", "type": "Microsoft.Authorization/policyDefinitions", "name": "73d6ab6c-2475-4850-adf6-43795f3492ef"], 
{"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"], "value": true}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/742b549b-7a25-465f-b83c-ea1fbb4f4e0e", "type": "Microsoft.Authorization/policyDefinitions", "name": "742b549b-7a25-465f-b83c-ea1fbb4f4e0e"}, 
{"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"}, "metadata": {"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": ["parameters(listOfAllowedSKUs)"]}], "then": {"effect": "Deny"}}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7433c107-6db4-4ad1-b57a-a76dce0154a1", "type": "Microsoft.Authorization/policyDefinitions", "name": "7433c107-6db4-4ad1-b57a-a76dce0154a1"}, 
{"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/resourceGroups"], "value": true}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/74ae9b8e-e7bb-4c9c-992f-c535282f7a2e", "type": "Microsoft.Authorization/policyDefinitions", "name": "74ae9b8e-e7bb-4c9c-992f-c535282f7a2e"}, 
{"properties": {"displayName": "Ensure that "Python version" is the latest, if used as a part of the Api

Open Source Used In SDWan 20.9.1 10664
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.

Using the latest Python version for App Services is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.

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.

Audit enabling of diagnostic logs in App Services.

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.
Microsoft implements this Physical and Environmental Protection control, "metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1468"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resourcessubscriptions","Microsoft.Resources/subscriptionssourcemGroups"]},{"value":"false","equals":true}]},”then":{"effect":"audit"},"id":/providers/Microsoft.Authorization/policyDefinitions/75603f96-80a1-4757-991d-5a121765ddd","type":"Microsoft.Authorization/policyDefinitions","name":"75603f96-80a1-4757-991d-5a121765ddd"},"properties":{"displayName":"Microsoft Managed Control 1053 - Session Lock | Pattern-Hiding 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/ACF1053"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resourcessubscriptions","Microsoft.Resources/subscriptionssourcemGroups"]},{"value":"false","equals":true}]},”then":{"effect":"audit"},"id":/providers/Microsoft.Authorization/policyDefinitions/7582b19c-9dba-438e-aed8-ede59ac35ba3","type":"Microsoft.Authorization/policyDefinitions","name":"7582b19c-9dba-438e-aed8-ede59ac35ba3"},"properties":{"displayName":"Private endpoint should be enabled for MySQL servers"},"policyType":"BuiltIn","mode":"Indexed","description":"This policy audits MySQL servers not configured to use a private endpoint. For more details, visit https://aka.ms/mysqlprivatelink."},"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.DBForMySQL/servers"},"then":{"effect":parameters(effect)"},"details":{"type":Microsoft.DBForMySQL/servers/privateEndpointConnections"},"existenceCondition":{"field":Microsoft.DBForMySQL/servers/privateEndpointConnections/privateLinkServiceConnectionState.status","equals":Approved"},"id":/providers/Microsoft.Authorization/policyDefinitions/7595c971-233d-4bcf-bd18-59612918849","type":"Microsoft.Authorization/policyDefinitions","name":"7595c971-233d-4bcf-bd18-59612918849"},"properties":{"displayName":"Microsoft Managed Control 1459 - Access Control For Transmission Medium"},"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/ACF1459"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resourcessubscriptions","Microsoft.Resources/subscriptionssourcemGroups"]},{"value":"false","equals":true}]},”then":{"effect":"audit"},"id":/providers/Microsoft.Authorization/policyDefinitions/75cc73c7-5cdb-479d-a06f-7b4d0dbb1da0","type":"Microsoft.Authorization/policyDefinitions","name":"75cc73c7-5cdb-479d-a06f-7b4d0dbb1da0"},"properties":{"displayName":"Vulnerabilities should be remediated by a Vulnerability Assessment solution"},"policyType":"BuiltIn","mode":"All","description":"Monitors vulnerabilities detected by Vulnerability Assessment solution and VMs without a Vulnerability Assessment solution in Azure Security Center as recommendations."}
Managed Control 1049 - Authorized Access Control

Displays the current authorized access control applied to the subscription or resource.

- **Publisher**: Microsoft
- **Type**: Authorization

**Properties**:
- **DisplayName**: Microsoft Authorized Access Control
- **PolicyType**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Access Control control
- **Metadata**:
  - **Version**: 1.0.0
  - **Category**: Regulatory Compliance
  - **AdditionalMetadataId**: /providers/Microsoft.Authorization/policyDefinitions/765266ab-e40e-4c61-bcb2-5a5275d0b7c0

**Policy Rule**:
- **Then**: Field: `extensionDetails`, in: `"autoUpgradeMinorVersion":true`, `"autoUpgradeMajorVersion":true`

**Outputs**:
- Field: `name`, in: `"output": "Microsoft Authorized Access Control"`

```
s("vmName"),
"/", variables("vmExtensionName")}, "apiVersion": "2018-06-01", "location": "[parameters("location")]", "properties": [
  "publisher": variables("vmExtensionPublisher")], "type": 
  [variables("vmExtensionType")], "typeHandlerVersion": 
  [variables("vmExtensionTypeHandlerVersion")], "autoUpgradeMinorVersion":true] }], "outputs": [
  "policy": {
    "type": "string",
    "value": "[concat('"Enabled extension for: ",
  parameters("vmName")"")]}, "parameters": {
  "vmName": {
    "value": "[field("name")]", "location": "[value: 
  "location"]"}}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/765266ab-e40e-4c61-bcb2-5a5275d0b7c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "765266ab-e40e-4c61-bcb2-5a5275d0b7c0"},
```
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}, 
"id": "/providers/Microsoft.Authorization/policyDefinitions/7741669e-d4f6-485a-83cb-e70ce7cbcc20", "type": "Microsoft.Authorization/policyDefinitions", "name": "7741669e-d4f6-485a-83cb-e70ce7cbcc20"}, 
"properties": {"displayName": 
"Azure subscriptions should have a log profile for Activity Log", "policyType": "BuiltIn", "mode": "All", "description": "This policy ensures if a log profile is enabled for exporting activity logs. It audits if there is no log profile created to export the logs either to a storage account or to an event hub.", "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": "AuditIfNotExists"}], 
"details": 
{"type": "Microsoft.Insights/logProfiles", 
"existenceCondition": 
{"field": "Microsoft.Insights/logProfiles/categories", 
"exists": true}, 
"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": false, 
"equals": true 
}], 
"then": 
{"effect": audit}, 
"id": "/providers/Microsoft.Authorization/policyDefinitions/77f56280-e367-432a-a3b9-8ca2aa636a26", 
"type": "Microsoft.Authorization/policyDefinitions", "name": "77f56280-e367-432a-a3b9-8ca2aa636a26"}, 
"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": 
{"if": 
{"allOf": 
["field": "type", "in": "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], 
"value": false, 
"equals": true 
}], 
"then": 
{"effect": audit}, 
"id": "/providers/Microsoft.Authorization/policyDefinitions/7814506c-382c-441a-90ae-249dd4a0dbff", 
"type": "Microsoft.Authorization/policyDefinitions", "name": "7814506c-382c-441a-90ae-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"}, "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/781b8f4-47c6-441a-90ae-
Managed Control 1057 - Permitted Actions Without Identification Or Authentication

Managed Control 1700 - Information System Monitoring | Unauthorized Network Services

Managed Control 1010 - Account Management

Managed Control 1216 - Least Functionality | Periodic Review

Managed Control 1639 - Boundary Protection | Isolation Of Information System Components

Open Source Used In SDWan 20.9.1 10670
Microsoft Managed Control 1647 - Cryptographic Protection

Microsoft implements this System and Communications Protection control.

Microsoft Managed Control 1647 - Cryptographic Protection

Microsoft Managed Control 1510 - Position Risk Designation

Microsoft implements this Personnel Security control.

Microsoft Managed Control 1384 - Information Spillage Response

This policy creates a Guest Configuration assignment to audit Windows Server virtual machines on which the Windows Serial Console is not enabled. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration.

Open Source Used In SDWan 20.9.1
}},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines"},{"anyOf
":[{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSh
arepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]},{"allOf":[
{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"field":"Microsoft.Compute/i
mageSKU","notLike":"2008*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftSQL
Server"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]},{"allOf":[{"field":"Microsoft.Comp
ute/imagePublisher","equals":"microsoft-dsvm"},{"field":"Microsoft.Compute/imageOffer","equals":"dsvmwindows"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"microsoftads"},{"field":"Microsoft.Compute/imageOffer","in":["standard-data-science-vm","windows-data-sciencevm"]}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"batch"},{"field":"Microsoft.Compute/im
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/
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,"details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab8820f7382dd24c"],"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"WindowsSerialC
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sh","equals":"[base64(concat(''[WindowsSerialConsole]WindowsSerialConsole;EMSPortNumber'',
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"type": "Microsoft.Compute/virtualMachines/extensions","location": [parameters("location")], 
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"autoUpgradeMinorVersion": true,"settings": {}, "protectedSettings": {}, "dependsOn": [concat("Microsoft.Compute/virtualMachines","parameters("vmName")", "/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments","parameters("configurationName")")]
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"type": "Microsoft.Authorization/policyDefinitions","name": [7a031c68-d6ab-406e-a506-697a19c634b0]
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"metadata": {
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"category": "Regulatory Compliance"}, 
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"policyType": "Static","mode": "Indexed", 
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"category": "Regulatory Compliance"}, 
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}, 
"properties": {
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"metadata": {
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"category": "Regulatory Compliance"}, 
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"properties": {
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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/7ac22808-a2e8-41c4-9d46-429b50738914","type":"Microsoft.Authorization/policyDefinitions","name":"7ac22808-a2e8-41c4-9d46-429b50738914"},"properties":{"displayName":"Microsoft 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/7ad5f307-e045-46f7-8214-5bd7e9737377","type":"Microsoft.Authorization/policyDefinitions","name":"7ad5f307-e045-46f7-8214-5bd7e9737377"},"properties":{"displayName":"Microsoft 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":"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 compromise."},"metadata":{"version":1.0.0.,"category":Compute},"parameters":{"effect":{"type":String,"metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":[]},"defaultValue":"AuditIfNotExists"},"policyRule":{"if":field":"type","equals":"Microsoft.Compute/virtualMachineScaleSets","then":{"effect":parameters(effect)}}},"details":{"type":Microsoft.Compute/virtualMachineScaleSets/extensions","existenceCondition":{anyOf:["allOf":field":" type"],"equals":IaaS.Diagnostics"},"field":Microsoft.
Microsoft Azure Diagnostics is a collection of built-in and custom policies that are designed to monitor and ensure the compliance of Azure resources within a subscription. These policies are authored in JSON and can be published to Microsoft Policy Insights. They are categorized based on their functional area, for example, "Security, Compliance, and Operations" or "Cost Management and Billing." Policies can be applied at different scope levels such as "Subscription," "Resource Group," or "Resource." Each policy is defined by its "displayName," "policyType," "mode," "description," "metadata," and "parameters." The "dependsOn" field can be used to indicate dependencies on other policies to achieve a broader scope of control. Additionally, policies can leverage "evaluation rules" to check the configuration of Azure resources. An example policy rule might be to check for blob encryption in storage accounts, while another could evaluate whether Azure Cache for Redis is deployed within a virtual network. These policies can be used to detect security vulnerabilities or to enforce compliance standards across Azure environments.
Effect determines what happens when the policy rule is evaluated to match.

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"defaultValue": "Audit"

"policyRule": {
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"allOf": [{
"field": "type",
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"exists": false
}]
},
"then": {
"effect": "[parameters(''effect'')]
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}
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"name": "7d092e0a-7acd-40d2-a975-dca21cae48c4",
"properties": {
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"mode": "Indexed",
"description": "Microsoft implements this Audit and Accountability control",
"metadata": {
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"field": "type",
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"value": false,
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}],
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}]
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"mode": "Indexed",
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"properties": {
"displayName": "Microsoft Managed Control 1471 - Emergency Shutoff",
"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/ACF1471"
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"properties": {
"displayName": "Show audit results from Windows 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 Windows virtual machines that have the specified applications installed.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol",
"metadata": {
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"category": "Guest Configuration"
},
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"if": {
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}],
"field": "Microsoft.Compute/imageSKU",
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}]
}]
}
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imageOffer","like":"bosh-windowsserver*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructureservices"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}]},{"allOf":[{"anyOf":[{"field":"Microsoft.Comp
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ageOffer","notLike":"SQL2008*"}]}]}]}]}]},{"allOf":[{"field":"type","equals":"Microsoft.HybridCompute/machin
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Managed Control 1692 - Information System Monitoring | Inbound And Outbound
Communications Traffic","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/ACF1692"},"policyRule
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Deploy prerequisites to audit Windows VMs that do not have the password complexity
setting enabled","policyType":"BuiltIn","mode":"Indexed","description":"This
policy creates a Guest Configuration assignment to audit Windows virtual machines
that do not have the password complexity setting 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-preview","category":"Guest
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o","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]},{"allOf":[{"field":"Microsoft.Compute/im
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Managed Control 1703 - Security Alerts, Advisories, And Directives

- **Microsoft Managed Control 1703 - Security Alerts, Advisories, And Directives**
  - **Policy Type**: Static
  - **Mode**: Indexed
  - **Description**: Microsoft implements this System and Information Integrity control.

Managed Control 1303 - Identification And Authentication (Org. Users) | Local Access To Privileged Accounts

- **Microsoft Managed Control 1303 - Identification And Authentication (Org. Users) | Local Access To Privileged Accounts**
  - **Policy Type**: Static
  - **Mode**: Indexed
  - **Description**: Microsoft implements this Identification and Authentication control.

Managed Control 1505 - Information Security Architecture

- **Microsoft Managed Control 1505 - Information Security Architecture**
  - **Policy Type**: Static
  - **Mode**: Indexed
  - **Description**: Microsoft implements this Planning control.

Managed Control 1614 - Developer Security Architecture And Design

- **Microsoft Managed Control 1614 - Developer Security Architecture And Design**
  - **Policy Type**: Static
  - **Mode**: Indexed
  - **Description**: Microsoft implements this System and Services Acquisition control.

Deploy prerequisites to audit Windows VMs configurations in "User Rights Assignment"

- **Policy Type**: BuiltIn
  - **Mode**: Indexed
  - **Description**: 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.

parameters:

- UsersOrGroupsThatMayAccessThisComputerFromTheNetwork:
  - type: "String"
  - metadata:
    - "displayName": "[Preview]: Users or groups that may access this computer from the network"
    - "description": "Specifies which remote users on the network are permitted to connect to the computer.
    This does not include Remote Desktop Connection."
    - "defaultValue": "Administrators, Authenticated Users"

- UsersOrGroupsThatMayLogOnLocally:
  - type: "String"
  - metadata:
    - "displayName": "[Preview]: Users or groups that may log on locally"
    - "description": " Specifies which users or groups can interactively log on to the computer. Users who attempt to log on via Remote Desktop Connection or IIS also require this user right."
    - "defaultValue": "Administrators"

- UsersOrGroupsThatMayLogOnThroughRemoteDesktopServices:
  - type: "String"
  - metadata:
    - "displayName": "[Preview]: Users or groups that may log on through Remote Desktop Services"
    - "description": " Specifies which users or groups are permitted to log on as a Terminal Services client, Remote Desktop, or for Remote Assistance."
    - "defaultValue": "Administrators, Remote Desktop Users"

- UsersAndGroupsThatAreDeniedAccessToThisComputerFromTheNetwork:
  - type: "String"
  - metadata:
    - "displayName": "[Preview]: Users and groups that are denied access to this computer from the network"
    - "description": " Specifies which users or groups are explicitly prohibited from connecting to the computer across the network."
    - "defaultValue": "Guests"

- UsersOrGroupsThatMayManageAuditingAndSecurityLog:
  - type: "String"
  - metadata:
    - "displayName": "[Preview]: Users or groups that may manage auditing and security log"
    - "description": " Specifies which users and groups are permitted to change the auditing options for files and directories and clear the Security log."
    - "defaultValue": "Administrators"

- UsersOrGroupsThatMayBackUpFilesAndDirectories:
  - type: "String"
  - metadata:
    - "displayName": "[Preview]: Users or groups that may back up files and directories"
    - "description": " Specifies which users and groups allowed to circumvent file and directory permissions to back up the system."
    - "defaultValue": "Administrators, Backup Operators"

- UsersOrGroupsThatMayChangeTheSystemTime:
  - type: "String"
  - metadata:
    - "displayName": "[Preview]: Users or groups that may change the system time"
    - "description": " Specifies which users and groups are permitted to change the time and date on the internal clock of the computer."
    - "defaultValue": "Administrators, LOCAL SERVICE"

- UsersOrGroupsThatMayChangeTheTimeZone:
  - type: "String"
  - metadata:
    - "displayName": "[Preview]: Users or groups that may change the time zone"
    - "description": " Specifies which users and groups are permitted to change the time zone of the computer."
    - "defaultValue": "Administrators, LOCAL SERVICE"

- UsersOrGroupsThatMayCreateATokenObject:
  - type: "String"
  - metadata:
    - "displayName": "[Preview]: Users or groups that may create a token object"
    - "description": " Specifies which users and groups are permitted to create an access token, which may provide elevated rights to access sensitive data."
    - "defaultValue": "No"
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Managed Control 1168 - Continuous Monitoring | Independent Assessment
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Managed Control 1448 - 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/ACF1448" }, "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/825d6494-e583-42f2-a3f2-6458e6f0004f" }

Managed Control 1452 - 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/ACF1452" }, "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/82c76455-4d3f-4e09-a654-22e592107e74" }

Managed Control 1262 - 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/ACF1262" }, "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/831e510e-db41-4c72-888e-a0621ab62265" }

Managed Control 1008 - 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/ACF1008" }, "policyRule
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":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"}},"requiredRetentionDays":{"type":"String","metadata":{"displayName":"Required retention (days)"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/83a214f7-d01a-484b-91a9-ed54470c9a6a","type":"Microsoft.Authorization/policyDefinitions","name":"83a214f7-d01a-484b-91a9-ed54470c9a6a","properties":{"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.

This should be reviewed by the network security team."},"metadata":{"version":"1.0.0"},"policyRule":{"if":{"field":"type","equals":"Microsoft.Network/networkInterfaces"},"then":{"effect":"deny"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/83a86a26-fd1f-447c-b59d-e51f44264114","type":"Microsoft.Authorization/policyDefinitions","name":"83a86a26-fd1f-447c-b59d-e51f44264114","properties":{"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. For more details, visit https://aka.ms/mysqlbyok."},"metadata":{"version":"1.0.0"},"policyRule":{"if":{"field":"type","equals":"Microsoft.DBforMySQL/servers"},"then":{"effect":"disable"}}}}}

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Managed Control 1382 - Incident Response Plan

- **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/ACF1382"
  - policyRule:
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- **ID**: /providers/Microsoft.Authorization/policyDefinitions/83cef61d-dbd1-4b20-a4fc-5fbc7da10833

Microsoft Managed Control 1098 - Security Training Records

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Awareness and Training control, metadata: 
  - version: "1.0.0"
  - category: "Regulatory Compliance"
  - additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1098"
  - policyRule:
    - if:
      - allOf: 
        - field: "type"
        - equals: "Microsoft.Authorization/policyDefinitions"
        - value: "false"
        - equals: "true"
    - then:
      - effect: "audit"

- **ID**: /providers/Microsoft.Authorization/policyDefinitions/840c54e8-c2f9-4d79-ae8d-38d8b8019373

Log Analytics agent should be installed on your Linux Azure Arc machines

- **Policy Type**: BuiltIn
- **Mode**: Indexed
- **Description**: This policy audits Linux Azure Arc machines if the Log Analytics agent is not installed.

- **ID**: /providers/Microsoft.Authorization/policyDefinitions/841392b3-40da-4473-b328-4cde49db7b3

Ensure that '.NET Framework' version is the latest, if used as a part of the Web app

- **Policy Type**: BuiltIn
- **Mode**: Indexed
- **Description**: Periodically, newer versions are released for .NET Framework software either due to security fixes 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.

- **ID**: /providers/Microsoft.Authorization/policyDefinitions/84254e8-c2f9-4d79-ae8d-38d8b8019373

Support for this feature may vary based on the version of Azure Arc Cloud Agent.
Managed Control 1119 - Audit Review, Analysis, And Reporting | Central Review
And Analysis,"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/ACF1119"},"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/845f6359-b764-4b40-b579-657afe23c44"},"type":"Microsoft.Authorization/policyDefinitions","name":"845f6359-b764-4b40-b579-657afe23c44"},"properties":{"displayName":"Microsoft Managed Control 1024 - Account Management | Account Monitoring / Atypical Usage",policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1024"},"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/84914fb4-12da-4c53-a341-a9fd463bed10"},"type":"Microsoft.Authorization/policyDefinitions","name":"84914fb4-12da-4c53-a341-a9fd463bed10"},"properties":{"displayName":"Microsoft Managed Control 1307 - Identification And Authentication (Org. Users) | Net. Access To Non-Priv. Accts. - Replay",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/ACF1307"},"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/84e622c8-4bed-417c-84c6-b2fb0dd73682"},"type":"Microsoft.Authorization/policyDefinitions","name":"84e622c8-4bed-417c-84c6-b2fb0dd73682"},"properties":{"displayName":"Microsoft Managed Control 1080 - Use Of External Information Systems | Portable Storage Devices",policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1080"},"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/852981b4-a380-4704-aa1e-2e52d63445e5"},"type":"Microsoft.Authorization/policyDefinitions","name":"852981b4-a380-4704-aa1e-2e52d63445e5"},"properties":{"displayName":"Microsoft Managed Control 1580 - 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/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
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Managed Control 1348 - Identification And Authentication
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Managed Control 1079 - Use Of External Information Systems | Limits On Authorized Use
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Managed Control 1326 - Authenticator Management
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<td>&quot;policyRule&quot;: { &quot;if&quot;: { &quot;allOf&quot;: [ { &quot;field&quot;: &quot;type&quot;, &quot;in&quot;: [ &quot;Microsoft.Resources/subscriptions&quot;, &quot;Microsoft.Resources/subscriptions/resourceGroups&quot; ] }, { &quot;value&quot;: &quot;false&quot;, &quot;equals&quot;: &quot;true&quot; } ] }, &quot;then&quot;: { &quot;effect&quot;: &quot;audit&quot; } }</td>
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- 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", "metadata": { "version": "1.1.0-preview", "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", "MicrosoftVisualStudio", "MicrosoftWindowsDesktop", "MicrosoftWindowsServerHPCPack" ] } ], "allOf": [ { "field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer" } ] } },
Deploy SQL DB transparent data encryption, "policyType": "BuiltIn", "mode": "Indexed", "description": "Enables transparent data encryption on SQL databases", "parameters": {}, "policyRule": {
  "if": {
    "allOf": [
      "field": "type", "equals": "Microsoft.Sql/servers/databases"
    ],
    "field": "name", "notEquals": "master"
  },
  "then": {
    "effect": "DeployIfNotExists",
    "details": {
      "field": "Microsoft.Sql/transparentDataEncryption.status",
      "equals": "Enabled"
    },
    "roleDefinitions": [
      "/providers/microsoft.authorization/roleDefinitions/9b7fa17d-e63e-47b0-bb0a-15c516ac86ec"
    ],
    "deployment": {
      "mode": "incremental",
      "template": {
        "contentVersion": "1.0.0.0",
        "parameters": {
          "fullDbName": {
            "type": "string"
          }
        },
        "resources": [
          {
            "name": 
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            ,
            "type": "Microsoft.Sql/servers/databases/transparentDataEncryption",
            "apiVersion": "2014-04-01",
            "parameters": {
              "status": "Enabled"
            },
            "properties": {
              "status": "Enabled"
            }
          }
        ],
        "parameters": {
          "fullDbName": {
            "value": 
              "[field('fullName')]
            
          }
        }
      }
    }
  }
}},
policy","allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"policyRule":{"if":["allOf":[]],"then":null},"details":null,"type":null,"parameters":null,"effect":null,"name":null,"existenceCondition":null,"id":null,"displayName":null,"category":null,"additionalMetadataId":null}

Managed Control 1392 - Information Spillage Response | Post-Spill Operations","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control","metadata":null,"policyRule":null,"id":null,"displayName":null,"category":null,"additionalMetadataId":null}

Managed Control 1589 - External Information System Services | Risk Assessments / Organizational Approvals","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":null,"policyRule":null,"id":null,"displayName":null,"category":null,"additionalMetadataId":null}

Managed Control 1207 - Access Restrictions For Change | Limit Production / Operational Privileges","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Configuration Management control","metadata":null,"policyRule":null,"id":null,"displayName":null,"category":null,"additionalMetadataId":null}

Managed Control 1180 - Baseline Configuration | Automation Support For Accuracy / Currency","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Configuration Management control","metadata":null,"policyRule":null,"id":null,"displayName":null,"category":null,"additionalMetadataId":null}
Managed Control 1635 - Boundary Protection | Host-Based Protection

This solution implements this System and Communications Protection control, as specified in the Policy Type: Static, and the Mode: Indexed. The policy ensures that the following conditions are met:

1. Microsoft Managed Control 1635 - Boundary Protection | Host-Based Protection
   - **Policy Type:** Static
   - **Mode:** Indexed
   - **Description:**
     - **Policy Type:** Static
     - **Mode:** Indexed
     - **Description:**
       - **Microsoft Managed Control 1635 - Boundary Protection | Host-Based Protection**
       - **Policy Type:** Static
       - **Mode:** Indexed
       - **Description:**
         - **Microsoft Managed Control 1635 - Boundary Protection | Host-Based Protection**

2. [Preview]: Show audit results from Windows VMs configurations in “Administrative Templates - Control Panel”
   - **Policy Type:** BuiltIn
   - **Mode:** All
   - **Description:**
     - **Policy Type:** BuiltIn
     - **Mode:** All
     - **Description:**
       - **[Preview]: Show audit results from Windows VMs configurations in “Administrative Templates - Control Panel”**

More information on Guest Configuration policies can be found at https://aka.ms/gcpol.
null
"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":concat(parameters('JavaLatestVersion'),""")],"field":concat(parameters('JavaLatestVersion'),"""")}]},"id":"/providers/Microsoft.Authorization/policyDefinitions/88999f4c-376a-45c8-bcb3-4058f173c3f9","type":"Microsoft.Authorization/policyDefinitions","name":"88999f4c-376a-45c8-bcb3-4058f173c3f9"],"properties":{"displayName":"Network interfaces should disable IP forwarding","policyType":"BuiltIn","mode":"Indexed","description":"This policy denies the network interfaces which enabled IP forwarding. The setting of IP forwarding disables Azure’s check of the source and destination for a network interface. This should be reviewed by the network security team.","metadata":{"version":"1.0.0","category":"Network"},"parameters":{},"policyRule":{"if":{"allOf":["field":concat(parameters('JavaLatestVersion'),"""")],"field":concat(parameters('JavaLatestVersion'),"""")}]},"id":"/providers/Microsoft.Authorization/policyDefinitions/89099bee-89e0-4b26-a5f4-165451757743","type":"Microsoft.Authorization/policyDefinitions","name":"89099bee-89e0-4b26-a5f4-165451757743"],"properties":{"displayName":"Microsoft Managed Control 1215 - Least Functionality","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Configuration Management control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1215"},"policyRule":{"if":{"allOf":["field":concat(parameters('JavaLatestVersion'),"""")],"field":concat(parameters('JavaLatestVersion'),"""")}]},"id":"/providers/Microsoft.Authorization/policyDefinitions/898d4fe8-f743-4333-86b7-0c9245d93e7d","type":"Microsoft.Authorization/policyDefinitions","name":"898d4fe8-f743-4333-86b7-0c9245d93e7d"],"properties":{"displayName":"Microsoft Managed Control 1411 - 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/ACF1411"},"policyRule":{"if":{"allOf":["field":concat(parameters('JavaLatestVersion'),"""")],"field":concat(parameters('JavaLatestVersion'),"""")}]},"id":/providers/Microsoft.Authorization/policyDefinitions/88c0b9da-ce96-4b03-9635-f29a937e2900","type":"Microsoft.Authorization/policyDefinitions","name":"88c0b9da-ce96-4b03-9635-f29a937e2900"],"properties":{"displayName":"Network servers should be configured with auditing retention days greater than 90 days.","policyType":"BuiltIn","mode":"Indexed","description":"Audit SQL servers configured with an auditing retention period of less than 90 days.","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"},"policyRule":{"if":concat(parameters('JavaLatestVersion'),"""")},"id":/providers/Microsoft.Authorization/policyDefinitions/88d4fe8-f743-4333-86b7-0c9245d93e7d","type":"Microsoft.Authorization/policyDefinitions","name":"88d4fe8-f743-4333-86b7-0c9245d93e7d"},"properties":{"displayName":"Microsoft Managed Control 1411 - Nonlocal Maintenance"}}
Show audit results from Windows VMs configurations in "Security Options - System settings".
This policy should only be used along with its corresponding deploy policy in an initiative.

Guest Configuration policies, please visit https://aka.ms/gcpol.
initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with a pending reboot. 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/imageOffer","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": [{"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\": \"WindowsPendingReboot\", \"existenceCondition\": {\"field\": \"Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus\", \"equals\": \"Compliant\"}}}]}, \"id\": \"providers/Microsoft.Authorization/policyDefinitions/8b0de57a-f511-4d45-a277-17cb79eb163b\", \"type\": \"Microsoft.Authorization/policyDefinitions\", \"name\": \"8b0de57a-f511-4d45-a277-17cb79eb163b\"}, \"properties\": {\"displayName\": \"Managed Control 1534 - 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/ACF1534\", \"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/8b0de57a-f511-4d45-a277-17cb79eb163b\", \"type\": \"Microsoft.Authorization/policyDefinitions\", \"name\": \"8b0de57a-f511-4d45-a277-17cb79eb163b\"}, \"properties\": {\"displayName\": \"Microsoft Managed Control 1170 - Penetration Testing\", \"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/ACF1170\", \"policyRule": {\"if": {\"allOf": [{\"field\": \"type\", \"in\": [\"Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups\"]}, \"value\": \"false\", \"equals\": \"true\"}], \"then\": \"effect\": \"audit\"}}}, \"id\": \"providers/Microsoft.Authorization
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.

Ensure that "HTTP Version" is the latest, if used to run the Web app.

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.

that "HTTP Version" is the latest, if used to run the Web app. 
Open Source Used In SDWan

- 20.9.1

10706
a required tag and its value 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":{"allOf":[{"field":"type","equals":"Microsoft.Resources/subscriptions/resource
Groups"},{"field":"[concat(''tags['',
parameters(''tagName''),
'']'')]","notEquals":"[parameters(''tagValue'')]"}]},"then":{"effect":"deny"}}},"id":"/providers/Microsoft.Authorizati
on/policyDefinitions/8ce3da23-7156-49e4-b14524f95f9dcb46","type":"Microsoft.Authorization/policyDefinitions","name":"8ce3da23-7156-49e4-b14524f95f9dcb46"},{"properties":{"displayName":"Microsoft
Managed Control 1324 - 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/ACF1324"},"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/8cfea2b3-7f77-497e-ac200752f2ff6eee","type":"Microsoft.Authorization/policyDefinitions","name":"8cfea2b3-7f77-497e-ac200752f2ff6eee"},{"properties":{"displayName":"Microsoft
Managed Control 1225 - Information System Component Inventory | Automated
Maintenance","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Configuration Management control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1225"},"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/8d096fe0-f510-4486-8b4dd17dc230980b","type":"Microsoft.Authorization/policyDefinitions","name":"8d096fe0-f510-4486-8b4dd17dc230980b"},{"properties":{"displayName":"Microsoft
Managed Control 1288 - 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/ACF1288"},"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/8d854c3b-a3e6-4ec9-9f0cc7274dbaeb2f","type":"Microsoft.Authorization/policyDefinitions","name":"8d854c3b-a3e6-4ec9-9f0cc7274dbaeb2f"},{"properties":{"displayName":"Microsoft
Managed Control 1281 - Telecommunications Services | Priority Of Service
Provisions","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Contingency Planning control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1281"},"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/8dc459b3-0e77-45af-8d71-

Open Source Used In SDWan 20.9.1 10707


Deploy prerequisites to audit Windows VMs configurations in "System Audit Policies - Object Access". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Object Access". 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.
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"
  }],
  "allOf": [{
    "field": "Microsoft.Compute/imagePublisher",
    "equals": "cloud-infrastructure-services"
  }, {
    "field": "Microsoft.Compute/imageOffer",
    "like": "ad*"
  }]
},
{
  "anyOf": [{
    "field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration",
    "exists": false
  }],
  "allOf": [{
    "field": "Microsoft.Compute/imageSKU",
    "notLike": "SQL2008*
  }]
}
],
{
  "allOf": [{
    "field": "type",
    "equals": "Microsoft.HybridCompute/" +
    "machines",
    "like": "windows*"
  }],
  "then": {
    "effect": "deployIfNotExists",
    "details": {
      "roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"],
      "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments",
      "name": "AzureBaseline_S
    systemAuditPoliciesObjectAccess",
      "existenceCondition": {
        "field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash",
        "equals": "+[base64(concat("Audit
    Detailed File Share;ExpectedValue", ",=", parameters("AuditDetailedFileShare"),
    ",=", parameters("AuditFileShare"),
    ",=", parameters("AuditFileSystem")))],
        "deployment": {
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            "parameters": {
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              },
              "location": {
                "value": parameters("location")
              }
            }
          }
        }
      }
    }
  }
}
Managed Control 1278 - Alternate Processing Site | Preparation For Use

Microsoft implements this Contingency Planning control, metadata: {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1278" }, 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/8e170edb-e0f5-497a-bb36-48b3280ce6a" } }

Security Center’s auto provisioning of the Log Analytics agent on your subscriptions with custom workspace.

Security Center to auto provision the Log Analytics agent on your subscriptions to monitor and collect security data using a custom workspace.

Log Analytics workspace, description: "Auto provision the Log Analytics agent on your subscriptions to monitor and collect security data using a custom workspace.

Open Source Used In SDWan 20.9.1 10710
Managed Control 1517 - Personnel Termination

Microsoft implements this Personnel Security control, 

Metadata:

- **Version:** 1.0.0
- **Category:** Regulatory Compliance
- **Additional Metadata ID:** /providers/Microsoft.PolicyInsights/policyMetadata/ACF1517
- **Policy Rule:**
  - **If:**
    - **All Of:**
      - **Field:** type
      - **In:** [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
  - **Value:** false
  - **Equals:** true
- **Then:**
  - **Effect:** audit

Managed Control 1668 - Flaw Remediation

Microsoft implements this System and Information Integrity control, 

Metadata:

- **Version:** 1.0.0
- **Category:** Regulatory Compliance
- **Additional Metadata ID:** /providers/Microsoft.PolicyInsights/policyMetadata/ACF1668
- **Policy Rule:**
  - **If:**
    - **All Of:**
      - **Field:** type
      - **In:** [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
  - **Value:** false
  - **Equals:** true
- **Then:**
  - **Effect:** audit

Managed Control 1013 - Account Management | Automated System Account Management

Microsoft implements this Access Control control, 

Metadata:

- **Version:** 1.0.0
- **Category:** Regulatory Compliance
- **Additional Metadata ID:** /providers/Microsoft.PolicyInsights/policyMetadata/ACF1013
- **Policy Rule:**
  - **If:**
    - **All Of:**
      - **Field:** type
      - **In:** [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
  - **Value:** false
  - **Equals:** true
- **Then:**
  - **Effect:** audit

Managed Control 1147 - Security Assessments

Microsoft implements this Security Assessment and Authorization control, 

Metadata:

- **Version:** 1.0.0
- **Category:** Regulatory Compliance
- **Additional Metadata ID:** /providers/Microsoft.PolicyInsights/policyMetadata/ACF1147
- **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 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.
visit https://aka.ms/gcpol
toLower('Microsoft.Compute/virtualMachines'))],"apiVersion":"2015-05-01-preview","name":"[concat(parameters('vmName'))]","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/8ff0b18b-262e-4512-857a-48ad0aeb9a78","type":"Microsoft.Authorization/policyDefinitions","name":"8ff0b18b-262e-4512-857a-48ad0aeb9a78"},{"properties":{"displayName":"Microsoft Managed Control 1550 - 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/ACF1550"},"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/902908fb-25a8-4225-a3a5-5603c80066c9","type":"Microsoft.Authorization/policyDefinitions","name":"902908fb-25a8-4225-a3a5-5603c80066c9"},{"properties":{"displayName":"[Preview]: Deploy prerequisites to audit Windows VMs configurations in "Windows Firewall Properties"","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 Firewall Properties". 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":{"WindowsFirewallDomainUseProfileSettings":{"type":"String","metadata":{"displayName":"[Preview]: Windows Firewall (Domain): Use profile settings","description":"Specifies whether Windows Firewall with Advanced Security uses the settings for the Domain profile to filter network traffic. If you select Off, Windows Firewall with Advanced Security will not use any of the firewall rules or connection security rules for this profile."},"defaultValue":"1"},"WindowsFirewallDomainBehaviorForOutboundConnections":{"type":"String","metadata":{"displayName":"[Preview]: Windows Firewall (Domain): Behavior for outbound connections","description":"Specifies the behavior for outbound connections for the Domain profile that do not match an outbound firewall rule. The default value of 0 means to allow connections, and a value of 1 means to block connections."},"defaultValue":"0"},"WindowsFirewallDomainApplyLocalConnectionSecurityRules":{"type":"String","metadata":{"displayName":"[Preview]: Windows Firewall (Domain): Apply local connection security rules","description":"Specifies whether local administrators are allowed to create connection security rules that apply together with connection security rules configured by Group Policy for the Domain"},"defaultValue":"1"},"WindowsFirewallDomainApplyLocalFirewallRules":{"type":"String","metadata":{"displayName":"[Preview]: Windows Firewall (Domain): Apply local firewall rules"}}}
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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

Managed Control 1069 - Wireless Access | Authentication And Encryption

Deploy Dependency agent to Windows Azure Arc machines

Deploy Dependency agent to Windows Azure Arc machines if the agent isn't installed.
Show audit results from Windows VMs that contain certificates expiring within the specified number of 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 contain certificates expiring within the specified number of days. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol".

Deploy prerequisites to audit Windows VMs in which the Administrators group does not contain all 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 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".

"id": "92f85ce9-17b7-49ea-85ee-ea7271ea6b82","type": "Microsoft.Authorization/policyDefinitions","name": "92f85ce9-17b7-49ea-85ee-ea7271ea6b82","properties": {"displayName": "[Preview]: Show audit results from Windows VMs that contain certificates expiring within the specified number of 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 contain certificates expiring within the specified number of days. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"}

"id": "9328f27e-611e-44a7-a244-39109d7d35ab","type": "Microsoft.Authorization/policyDefinitions","name": "9328f27e-611e-44a7-a244-39109d7d35ab","properties": {"displayName": "Deploy prerequisites to audit Windows VMs in which the Administrators group does not contain all 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 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"}
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Configuration", "requiredProviders": ["Microsoft.GuestConfiguration"], "parameters": {"MembersToInclude": {"type": "String"}, "metadata": {"displayName": "Members to include", "description": "A semicolon-separated list of members that should be included 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", "MicrosoftSharepoint", "MicrosoftVisualStudio", "MicrosoftWindowsDesktop", "MicrosoftWindowsServerHPCPack"], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "Microsoft.Connective", "field": "Microsoft.Compute/imageOffer", "like": "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*"}], "allOf": [{"field": "Microsoft.Compute/imageSKU", "notLike": "2008*"}], "allOf": [{"field": "Microsoft.Compute/imageSKU", "notLike": "SQL2008*"}], "allOf": [{"field": "type", "equals": "Microsoft.Compute/imageOffer", "like": "windows*"}], "then": {"effect": "deployIfNotExists", "details": {"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"], "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "AdministratorsGroupMembersToInclude", "existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash", "equals": [base64(concat("[LocalGroup]AdministratorsGroup;MembersToInclude", ",=")), deployment: {"properties": {"mode": "incremental", "parameters": {"vmName": {"value": ["[field("name")]"]}, "location": {"value": ["[field("location")]"]}, "type": {"value": ["[field("type")]"]}, "configurationName": {"value": "AdministratorsGroupMembersToInclude", "MembersToInclude": ["value": ["[parameters(MembersToInclude)"]]]}, "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"}, "MembersToInclude": {"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": "[LocalGroup]AdministratorsGroupMembersToInclude", "value": ["[parameters(MembersToInclude)"]]}, {"condition": ["equals(toLower(parameters("type")))]}, toLower("Microsoft.Compute/virtualMachines"))]]}, "apiVersion": "2018-11-
Managed Control 1163 - Continuous Monitoring

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/ACF1163" }, "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/961663a1-8a91-4e59-b6f5-1f0ee570c049c" }

Required a tag on resource groups, Policy Type: BuiltIn, Mode: All, Description: Enforces existence of a tag 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"" } }, "policyRule": {"if": ["allOf": ["field": "type", "equals": "Microsoft.Resources/subscriptions/resourceGroups"], ["field": "concat(tags["parameters"("tagName"), "]")]"]]}, "exists": false], "then": {"effect": "deny" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/96670d01-0a4d-4649-9c89-2d3abc0a5025" }

Managed Control 1717 - Software, Firmware, And Information Integrity | Binary Or Machine Executable Code, 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/ACF1717" }, "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/967773fc-d9ab-4a4e-88f6-f5e9e355d6f8" }

Advanced data security settings for SQL server should contain an email address to receive security alerts. Policy Type: 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 servers. "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 } }

Advanced data security settings for SQL server should contain an email address to receive security alerts. Policy Type: 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 servers.
Policy should use a customer-managed key.

This policy audits any App Configuration instance that does not use a customer-managed key.

Microsoft Managed Control 1453 - Physical Access Control

This policy implements this Physical and Environmental Protection control.

Managed Control 1453 - Physical Access 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.
Deploy prerequisites to audit Windows VM configurations in "System Audit Policies - Policy Change". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Policy Change". 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.
Authorization Policy
have private endpoint connections via private links. For more information, visit https://aka.ms/privateendpoints.

```json
"parameters": {
  "effect": {
    "type": "String",
    "metadata": {
      "displayName": "Effect",
      "description": "Enable or disable the execution of the policy",
      "allowedValues": [
        "Audit",
        "Disabled"
      ],
      "defaultValue": "Audit"
    }
  },
  "policyRule": {
    "if": {
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          "equals": "Microsoft.EventGrid/domains"
        },
        {
          "count": {
            "field": "Microsoft.EventGrid/domains/privateEndpointConnections[*]",
            "where": {
              "field": "Microsoft.EventGrid/domains/privateEndpointConnections[*].privateLinkServiceConnectionState.status",
              "equals": "Approved"
            }
          }
        },
        {
          "less": 1
        }
      ],
      "then": {
        "effect": {
          "parameters": {
            "effect": "Audit"
          }
        }
      }
    }
  },
  "id": "/providers/Microsoft.Authorization/policyDefinitions/9830b652-8523-49cc-b1b3-e17dce1127ca",
  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "9830b652-8523-49cc-b1b3-e17dce1127ca"
},
"properties": {
  "displayName": "[Deprecated]: Allow resource creation only in United States data centers",
  "policyType": "BuiltIn",
  "mode": "Indexed",
  "description": "Allows resource creation in the following locations only: Central US, East US, East US2, North Central US, South Central US, West US",
  "metadata": {
    "version": "1.0.0-deprecated",
    "category": "General",
    "deprecated": true
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},
"parameters": {
  "EnableInsecureGuestLogons": {
    "type": "String",
    "metadata": {
      "displayName": "[Preview]: Enable insecure guest logons",
      "description": "Specifies whether the SMB client will allow insecure guest logons to an SMB server.
    }
  },
  "AllowSimultaneousConnectionsToTheInternetOrAWindowsDomain": {
    "type": "String",
    "metadata": {
      "displayName": "[Preview]: Allow simultaneous connections to the Internet or a Windows Domain",
      "description": "Specify whether to prevent computers from connecting to both a domain based network and a non-domain based network at the same time. A value of 0 allows simultaneous connections, and a value of 1 blocks them.
    }
  },
  "TurnOffMulticastNameResolution": {
    "type": "String",
    "metadata": {
      "displayName": "[Preview]: Turn off multicast name resolution",
      "description": "Specifies whether LLMNR, a secondary name resolution protocol that transmits using multicast over a local subnet link on a single subnet, is enabled.
    }
  }
},
"policyRule": {
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        "equals": "Microsoft.Compute/virtualMachines"
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          "esri",
          "incredibuild",
          "MicrosoftDynamicsAX",
          "MicrosoftSharepoint",
          "MicrosoftVisualStudio",
          "MicrosoftWindowsDesktop",
          "MicrosoftWindowsServerHPCPack"
        ]
      }
    ],
    "then": {
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          "effect": "Preview"
        }
      }
    }
  }
}```
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imageOffer","like":"bosh-windowsserver*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructureservices"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}]},{"allOf":[{"anyOf":[{"field":"Microsoft.Comp
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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":"AzureBaseline_A
dministrativeTemplatesNetwork","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfiguration
Assignments/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","paramete
rs":{"vmName":{"value":"[field(''name'')]"},"location":{"value":"[field(''location'')]"},"type":{"value":"[field(''type''
)]"},"configurationName":{"value":"AzureBaseline_AdministrativeTemplatesNetwork"},"EnableInsecureGuestLog
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WindowsDomain":{"value":"[parameters(''AllowSimultaneousConnectionsToTheInternetOrAWindowsDomain'')]"}
,"TurnOffMulticastNameResolution":{"value":"[parameters(''TurnOffMulticastNameResolution'')]"}},"template":{"
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ulticastNameResolution":{"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":"Enable
insecure guest
logons;ExpectedValue","value":"[parameters(''EnableInsecureGuestLogons'')]"},{"name":"Minimize
the number of simultaneous connections to the Internet or a Windows

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Domain;ExpectedValue","value":"[parameters(''AllowSimultaneousConnectionsToTheInternetOrAWindowsDomai
n'')]"},{"name":"Turn
off multicast name
resolution;ExpectedValue","value":"[parameters(''TurnOffMulticastNameResolution'')]"}]}}},{"condition":"[equals
(toLower(parameters(''type'')),
toLower(''Microsoft.Compute/virtualMachines''))]","apiVersion":"2018-1120","type":"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments","name":"[concat(para
meters(''vmName''),
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parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
me":"[parameters(''configurationName'')]","version":"1.*","configurationParameter":[{"name":"Enable
insecure guest
logons;ExpectedValue","value":"[parameters(''EnableInsecureGuestLogons'')]"},{"name":"Minimize
the number of simultaneous connections to the Internet or a Windows
Domain;ExpectedValue","value":"[parameters(''AllowSimultaneousConnectionsToTheInternetOrAWindowsDomai
n'')]"},{"name":"Turn
off multicast name
resolution;ExpectedValue","value":"[parameters(''TurnOffMulticastNameResolution'')]"}]}}},{"condition":"[equals
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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/985285b7-b97a-419c-8d48c88cc934c8d8","type":"Microsoft.Authorization/policyDefinitions","name":"985285b7-b97a-419c-8d48c88cc934c8d8"},{"properties":{"displayName":"Microsoft
Managed Control 1076 - Use Of External Information
Systems","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1076"},"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/98a4bd5f-6436-46d4-ad00930b5b1dfed4","type":"Microsoft.Authorization/policyDefinitions","name":"98a4bd5f-6436-46d4-ad00930b5b1dfed4"},{"properties":{"displayName":"Ensure
that ''HTTP Version'' is the latest, if used to run the Api
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

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implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1021"},"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/9a3eb0a3-428d-4669-baff-20a14eb4b51","type":"Microsoft.Authorization/policyDefinitions","name":"9a3eb0a3-428d-4669-baff-20a14eb4b51"},"properties":{"displayName":"Deploy Diagnostic Settings for Azure SQL Database to Event Hub","policyType":"BuiltIn","mode":"Indexed","description":"Deploys the diagnostic settings for Azure SQL Database to stream to a regional Event Hub on any Azure SQL Database which is missing this diagnostic settings created or updated.","metadata":{"version":"1.0.0","category":"SQL"},"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}","strongType":"Microsoft.EventHub/Namespaces/AuthorizationRules","assignPermissions":true},"metricsEnabled":false,"logsEnabled":true},"policyRule":{"if":{"field":"type","equals":"Microsoft.Sql/servers/databases"},"then":{"effect":"DeployIfNotExists","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/b24988ac-6180-42a0-ab88-20f7382dd24c"],"deployment":{"properties":{"mode":"incremental","template":{"$schema":"http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"fullName":{"type":"string"},"location":{"type":"string"},"eventHubRuleId":{"type":"string"},"metricsEnabled":{"type":"string"},"logsEnabled":{"type":"string"}},"resources": [{"type":"Microsoft.Sql/servers/databases/providers/diagnosticSettings","apiVersion":"2017-05-01-preview","name":concat(parameters('fullName'),'/'Microsoft.Insights/',parameters('profileName')),"location":parameters('location'),"dependsOn":[]}, {"properties":{"eventHubAuthorizationRuleId":parameters('eventHubRuleId'),"metrics": [{"category":"AllMetrics","enabled":false,"parameters":{"metricsEnabled"}},{"category":"RetentionPolicy","enabled":false,"days":0}],"logs": [{"category":"QueryStoreRuntimeStatistics","enabled":false,"parameters":{"logsEnabled"}},{"category":"QueryStoreWaitStatistics","enabled":false,"parameters":{"logsEnabled"}},{"category":"Errors","enabled":false,"parameters":{"logsEnabled"}},{"category":"DatabaseWaitStatistics","enabled":false,"parameters":{"logsEnabled"}},{"category":"SQLInsights","enabled":false,"parameters":{"logsEnabled"}},{"category":"Audit","enabled":false,"parameters":{"logsEnabled"}}]}}]}}]}}}}
"diagnostic settings for " parameters(fullName)"],
parameters:{"location":{"value":field(location)"},
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"eventHubRuleId":{"value":parameters(eventHubRuleId)"},
"metricsEnabled":{"value":parameters(metricsEnabled)"},
"logsEnabled":{"value":parameters(logsEnabled)"},
"profileName":{"value":parameters(profileName)"}]}}}
"id":/providers/Microsoft.Authorization/policyDefinitions/9a7c7a7d-49e5-4213-bea8-6a502b6272e0"},
"type":"Microsoft.Authorization/policyDefinitions","name":"9a7c7a7d-49e5-4213-bea8-6a502b6272e0"},
"properties":{
"displayName":"Microsoft Managed Control 1049 - 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/ACF1049"},
"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/9adf7ba7-900a-4f35-8d57-9f34aafc405c"},
"type":"Microsoft.Authorization/policyDefinitions","name":"9adf7ba7-900a-4f35-8d57-9f34aafc405c"},
"properties":{
"displayName":"Microsoft Managed Control 1563 - Allocation Of Resources",
"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/ACF1563"},
"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/9afe2edf-232c-4fdf-8e6a-e867a5c525fd"},
"type":"Microsoft.Authorization/policyDefinitions","name":"9afe2edf-232c-4fdf-8e6a-e867a5c525fd"},
"properties":{
"displayName":"Microsoft Managed Control 1462 - 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/ACF1462"},
"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/9b1f3a9a-13a1-4b40-8420-36bca6fd8c02"},
"type":"Microsoft.Authorization/policyDefinitions","name":"9b1f3a9a-13a1-4b40-8420-36bca6fd8c02"},
"properties":{
"displayName":"Microsoft IaaSAntimalware extension should be deployed on Windows servers",
"policyType":"BuiltIn","mode":"Indexed","description":"This policy audits any Windows server VM without Microsoft IaaSAntimalware extension deployed."},
"metadata":{"version":1.0.0,"category":"Compute"},
"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.Compute/virtualMachines"},
"field":Microsoft.Compute/imagePublic
Managed Control 1135 - Non-Repudiation, 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/ACF1135"}, 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/9c284fc0-268a-4f29-af44-3c126674ed4b","type": "Microsoft.Authorization/policyDefinitions", name: "9c284fc0-268a-4f29-af44-3c126674ed4b"}, {"properties": {"displayName": "Microsoft Managed Control 1135 - Non-Repudiation"}},


Managed Control 1322 - Authenticator Management, policyType: "Static", mode: "Indexed", description: Microsoft implements this Identification and Authentication
Deploy Log Analytics agent to Linux Azure Arc machines, "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy deploys the Log Analytics agent to Linux Azure Arc machines if the agent isn't installed.", "metadata": {"version": "1.0.0-preview"}, "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": [{"field": "type", "equals": "Microsoft.HybridCompute/machines"}, {"field": "Microsoft.HybridCompute/imageOffer", "like": "linux*"}]}, "then": {"effect": "deployIfNotExists", "details": {"type": "Microsoft.HybridCompute/machines/extensions", "resourceIds": ["/providers/Microsoft.Authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3-d43ce8d16293"], "existenceCondition": {"allOf": [{"field": "Microsoft.HybridCompute/machines/extensions/type", "equals": "OmsAgentForLinux"}, {"field": "Microsoft.HybridCompute/machines/extensions/publisher", "equals": "Microsoft.EnterpriseCloud.Monitoring"}, {"field": "Microsoft.HybridCompute/machines/extensions/provisioningState", "equals": "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": "OmsAgentForLinux"}, "resources": [{"name": [concat(parameters('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": [concat('Enabled extension for VM', parameters('vmName'))], "parameters": {"vmName": ["value": [field('name')]], "location": ["value": [field('location')], "logAnalytics": ["value": [parameters('logAnalytics')]],["id": [providers('Microsoft.Authorization/roleDefinitions/9d1d971e-47a7-4a5f-98d4-53d79106bc9e'), {"type": "Microsoft.Authorization/policyDefinitions", "name": "9d1d971e-47a7-4a5f-98d4-53d79106bc9e", "properties": {"displayName": "[Preview]: Deploy Log Analytics agent to Linux Azure Arc machines", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy deploys the Log Analytics agent to Linux Azure Arc machines if the agent isn't installed.", "metadata": {"version": "1.0.0-preview"}}}, {"type": "Microsoft.Authorization/policyDefinitions", "name": "9d2b61b4-1d14-4a63-be30-d4498e7ad2cf", "properties": {"displayName": "Microsoft Managed Control 1233 - 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/ACF1322"}, {"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/9d1d971e-47a7-4a5f-98d4-53d79106bc9e')]}], "version": "1.0.0", "category": "Regulatory Compliance"}}}
Compliance","additionalMetadataId="/providers/Microsoft.PolicyInsights/policyMetadata/ACF1233"},"policyRule ":{"if":{"allOf":[]},"then":null},"id="/providers/Microsoft.Authorization/policyDefinitions/9d79001f-95fe-45d0-8736-f217e78c1f57"},"type":"Microsoft.Authorization/policyDefinitions","name":"9d79001f-95fe-45d0-8736-f217e78c1f57"},"properties":{"displayName":"Microsoft Managed Control 1305 - Identification And Authentication (Org. Users) | Group 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/ACF1305"},"policyRule ":{"if":{"allOf":[]},"then":null},"id="/providers/Microsoft.Authorization/policyDefinitions/9d9166a8-1722-4b8f-847e-2cf3f2618b3d"},"type":"Microsoft.Authorization/policyDefinitions","name":"9d9166a8-1722-4b8f-847e-2cf3f2618b3d"},"properties":{"displayName":"Microsoft Managed Control 1259 - 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/ACF1259"},"policyRule ":{"if":{"allOf":[]},"then":null},"id="/providers/Microsoft.Authorization/policyDefinitions/9d9e18f7-bad9-4d30-8806-a0c9d5e26208"},"type":"Microsoft.Authorization/policyDefinitions","name":"9d9e18f7-bad9-4d30-8806-a0c9d5e26208"},"properties":{"displayName":"Access through Internet facing endpoint should be restricted","policyType":"BuiltIn","mode":"All","description":"Azure Security center has identified some of your Network Security Groups' inbound rules to be too permissive. Inbound rules should not allow access from ''Any'' or ''Internet'' ranges. This can potentially enable attackers to easily target your 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":[]},"policyRule ":{"if":null,"then":null},"id="/providers/Microsoft.Authorization/policyDefinitions/9daedab3-fb2d-461e-b861-71790eead4f6"},"type":"Microsoft.Authorization/policyDefinitions","name":"9daedab3-fb2d-461e-b861-71790eead4f6"},"properties":{"displayName":"Microsoft Managed Control 1500 - Rules Of Behavior","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Planning control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId="/providers/Microsoft.PolicyInsights/policyMetadata/ACF1500"},"policyRule ":{"if":null,"then":null},"id="/providers/Microsoft.Authorization/policyDefinitions/9dd5b241-03cb-47d3-a5cd-4b89f9e53c92"},"type":"Microsoft.Authorization/policyDefinitions","name":"9dd5b241-03cb-47d3-a5cd-4b89f9e53c92"},"properties":{"displayName":"Microsoft Managed Control 1259 - 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/ACF1259"},"policyRule ":{"if":null,"then":null},"id="/providers/Microsoft.Authorization/policyDefinitions/9d9e18f7-bad9-4d30-8806-a0c9d5e26208"},"type":"Microsoft.Authorization/policyDefinitions","name":"9d9e18f7-bad9-4d30-8806-a0c9d5e26208"},"properties":{"displayName":"Access through Internet facing endpoint should be restricted","policyType":"BuiltIn","mode":"All","description":"Azure Security center has identified some of your Network Security Groups' inbound rules to be too permissive. Inbound rules should not allow access from ''Any'' or ''Internet'' ranges. This can potentially enable attackers to easily target your 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":[]},"policyRule ":{"if":null,"then":null},"id="/providers/Microsoft.Authorization/policyDefinitions/9daedab3-fb2d-461e-b861-71790eead4f6"},"type":"Microsoft.Authorization/policyDefinitions","name":"9daedab3-fb2d-461e-b861-71790eead4f6"},"properties":{"displayName":"Microsoft Managed Control 1500 - Rules Of Behavior","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Planning control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId="/providers/Microsoft.PolicyInsights/policyMetadata/ACF1500"},"policyRule ":{"if":null,"then":null},"id="/providers/Microsoft.Authorization/policyDefinitions/9dd5b241-03cb-47d3-a5cd-4b89f9e53c92"},"type":"Microsoft.Authorization/policyDefinitions","name":"9dd5b241-03cb-47d3-a5cd-4b89f9e53c92"},"properties":{"displayName":"Microsoft
Managed Control 1482 - Temperature And Humidity Controls | Monitoring With Alarms / Notifications, "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/ACF1482" }, "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/9df4277e-8c88-4d5c-9b1a-541d53d15d7b" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "9df4277e-8c88-4d5c-9b1a-541d53d15d7b" }, {"properties": {"displayName": "Microsoft Managed Control 1553 - Vulnerability Scanning | Breadth / Depth Of Coverage", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Risk Assessment control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1553" }, "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/9e5225fe-cdfb-4fce-9aec-0fe20dd53b62" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "9e5225fe-cdfb-4fce-9aec-0fe20dd53b62" }, {"properties": {"displayName": "Microsoft Managed Control 1490 - Security Planning Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1490" }, "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/9e61da80-0957-4892-b70c-609d5eaaafbb" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "9e61da80-0957-4892-b70c-609d5eaaafbb" }, {"properties": {"displayName": "Microsoft Managed Control 1504 - 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/ACF1504" }, "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/9e7c35d0-12d4-4e0c-80a2-8a352537aefd" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "9e7c35d0-12d4-4e0c-80a2-8a352537aefd" }, {"properties": {"displayName": "Microsoft Managed Control 1609 - Development Process, Standards, And Tools", "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/ACF1609" }, "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/9e93fa71-42ac-41a7-b177-efbf6dc5c69f" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "9e93fa71-42ac-41a7-b177-efbf6dc5c69f" }, {"properties": {"displayName": "Append a tag and its value from the resource group", "policyType": "BuiltIn", "mode": "Indexed", "description": "Appends
the specified tag with its value from the resource group when any resource which is missing this tag is created or updated. Does not modify the tags of resources created before this policy was applied until those resources are changed. New "modify" effect policies are available that support remediation of tags on existing resources (see https://aka.ms/modifydoc).!

```json
"metadata": {
  "version": "1.0.0",
  "category": "Tags",
  "parameters": {
    "tagName": {
      "type": "String",
      "metadata": {
        "displayName": "Tag Name",
        "description": "Name of the tag, such as "environment"")
      }
    }
  },
  "policyRule": {
    "if": {
      "allOf": [
        {
          "field": "tags["concat('tags["'
        "]"]",
          "exists": "false",
          "value": "[resourceGroup().tags[parameters('"tagName")]]",
          "notEquals": """
        }
      ]
    },
    "then": {
      "effect": "append",
      "details": {
        "field": "concat('tags["
        ,
        "parameters('"tagName")",
        ""]")",
        "value": "[resourceGroup().tags[parameters('"tagName")]]"
      }
    }
  }
```

Managed Control 1494 - System Security

Plan", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Planning control", "metadata": {
  "version": "1.0.0",
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  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1494"
}, "policyRule": {
  "if": {
    "allOf": [
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        "field": "type",
        "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
      }
    ],
    "value": "false",
    "equals": "true"
  },
  "then": {
    "effect": "audit"
  }
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/9ed09d84-3311-4853-8b67-2b55dfa33d09",
"properties": {
  "displayName": "Microsoft Managed Control 1514 - Personnel Screening | Information With Special Protection Measures",
  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this Personnel Security control",
  "metadata": {
    "version": "1.0.0",
    "category": "Regulatory Compliance",
    "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1514"
  },
  "policyRule": {
    "if": {
      "allOf": [
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          "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",
  "properties": {
    "displayName": "Microsoft Managed Control 1187 - Configuration Change Control",
    "policyType": "Static",
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    "description": "Microsoft implements this Configuration Management control",
    "metadata": {
      "version": "1.0.0",
      "category": "Regulatory Compliance",
      "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1187"
    },
    "policyRule": {
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            "field": "type",
            "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
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        ],
        "value": "false",
        "equals": "true"
      },
      "then": {
        "effect": "audit"
      }
    },
    "id": "/providers/Microsoft.Authorization/policyDefinitions/9f2b2f9e-4ba6-46c3-907f-66db138b6f85",
    "properties": {
      "displayName": "Show audit results from Windows VMs that are not set to the specified time zone",
      "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"
For more information on Guest Configuration policies, please visit https://aka.ms/gcpol. For 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.
null
Managed Control 1245 - Contingency Plan Control

Microsoft implements this Contingency Planning control, metadata: ["version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1245"], policyRule: 

Managed Control 1406 - Maintenance Tools

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"] } ] }, "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": "Microsoft Managed Control 1406 - Maintenance Tools | Inspect Media"}],

Security Center standard pricing tier should be selected

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" } ] }, "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": "All authorization rules except RootManageSharedAccessKey should be removed from 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" } ] }, "then": { "effect": [parameters("effect")], "id": "/providers/Microsoft.Authorization/policyDefinitions/a1817ec0-a368-432a-8057-8371e17ac6ee", type: "Microsoft.Authorization/policyDefinitions", name: "a1817ec0-a368-432a-8057-8371e17ac6ee", ["properties": { "displayName": "Managed Control 1245 - Contingency Plan Testing | Alternate Processing Site" }, policyType: "Static", mode: "Indexed", description: "Microsoft implements this Contingency Planning control", metadata: ["version": "1.0.0", "category": "Regulatory Compliance"]}]}
Show audit results from Windows VMs configurations in "Administrative Templates - 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: "Administrative Templates - 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": "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": "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": [{"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": "AzureBaseline_AdministrativeTemplatesSystem", "existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus", "equals": "Compliant"}}}, {"id": "/providers/Microsoft.Authorization/policyDefinitions/a1da6c7-f84f42661f60", "type": "Microsoft.Authorization/policyDefinitions", "name": "a1da6c7-f84f42661f60", "properties": {"displayName": "Microsoft Managed Control 1612 - Developer Security Architecture And Design", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory"}}}}}, {"allOf": [{"parameters": {"profileName": ""}, "location": {"parameters": {"location": ""}, "dependsOn": []}, "properties": {"eventHubAuthorizationRuleId": {"parameters": {"eventHubRuleId": ""}, "metrics": [{"category": "AllMetrics", "enabled": {"parameters": {"metricsEnabled": ""}}}, {"retentionPolicy": {"enabled": false, "days": 0}}], {"location": {"value": ""}, "resourceName": {"value": ""}, {"eventHubRuleId": ""}, {"parameters": {"eventHubRuleId": ""}}, {"metricsEnabled": ""}, {"parameters": {"metricsEnabled": ""}}], {"logsEnabled": ""}, {"parameters": {"logsEnabled": ""}}], {"profileName": ""}, {"location": ""}, {"resourceName": ""}, {"eventHubRuleId": ""}, {"parameters": {"eventHubRuleId": ""}}, {"metricsEnabled": ""}, {"parameters": {"metricsEnabled": ""}}], {"logsEnabled": ""}, {"parameters": {"logsEnabled": ""}}], {"profileName": ""}]}}, {"id": "/providers/Microsoft.Authorization/policyDefinitions/a1da6c7-f84f42661f60", "type": "Microsoft.Authorization/policyDefinitions", "name": "a1da6c7-f84f42661f60", "properties": {"displayName": "Microsoft Managed Control 1612 - Developer Security Architecture And Design", "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/ACF1612" }, "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/a2037b3d-8b04-4171-8610-e6d4f1d08db5" }, "properties": { "displayName": "Microsoft Managed Control 1197 - Configuration Change Control | Test / Validate / Document 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/ACF1197" }, "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/a20d2eaa-88e2-4907-96a2-8f3a05797e5c" }, "properties": { "displayName": "Microsoft Managed Control 1275 - Alternate Processing Site | Separation From Primary Site", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1275" }, "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/a23d9d53-ad2e-45ef-af5d-e6d1090a737" }, "properties": { "displayName": "Microsoft Managed Control 1690 - Information System Monitoring | System-Wide Intrusion Detection System", "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/ACF1690" }, "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/a2567a23-d1c3-4783-99f3-d471302a4d6b" }, "properties": { "displayName": "Microsoft Managed Control 1410 - Maintenance Tools | Prevent Unauthorized Removal", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1410" }, "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/a2596a9f-e59f-420d-9625-6e0b536348be" }, "properties": { "displayName": "Microsoft Managed Control 1059 - 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/ACF1059" }, "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/a2037b3d-8b04-4171-8610-e6d4f1d08db5" }, "properties": { "displayName": "Microsoft Managed Control 1075 - 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/ACF1075" }, "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/a2037b3d-8b04-4171-8610-e6d4f1d08db5" }}
Show audit results from Windows VMs 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 Windows virtual machines that are not joined to the specified domain.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
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/9505-4619-b579-309ba72037ac",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "a2cdf6b8-9505-4619-b579-309ba72037ac",
"properties": {
  "displayName": "Microsoft Managed Control 1252 - Contingency Plan | Capacity Planning",
  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this Contingency Planning control, 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"
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      },
      {
        "value": false,
        "equals": true
      }
    ]
  },
  "then": {
    "effect": "audit"
  }
},
id: "/providers/Microsoft.Authorization/policyDefinitions/a328fd72-8ff5-4f96-8c9c-b30ed95db4ab",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "a328fd72-8ff5-4f96-8c9c-b30ed95db4ab",
"properties": {
  "displayName": "Microsoft Managed Control 1238 - User-Installed 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/ACF1238"
  },
policyRule: {
  "if": {
    "allOf": [
      {
        "field": "type",
        "in": [
          "Microsoft.Resources/subscriptions",
          "Microsoft.Resources/subscriptions/resourceGroups"
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      {
        "value": false,
        "equals": true
      }
    ]
  },
  "then": {
    "effect": "audit"
  }
},
id: "/providers/Microsoft.Authorization/policyDefinitions/a36cedd4-3ffd-4b1f-8b18-aa71d8d87ce1",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "a36cedd4-3ffd-4b1f-8b18-aa71d8d87ce1",
"properties": {
  "displayName": "Microsoft Managed Control 1693 - Information System Monitoring | System-Generated Alerts",
  "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/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/a450eba6-2efc-4a00-846a-5804a936c6b77",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "a450eba6-2efc-4a00-846a-5804a936c6b77",
"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 modeling",
  "metadata": {
    "version": "1.0.0",
    "category": "General"
  },
  "parameters": {
    "effect": {
      "type": "String",
      "metadata": {
        "displayName": "Effect",
        "description": "Enable or disable the execution of the policy"
      }
    }
  }
}
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", "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": "app*", "field": "Microsoft.Web/sites/httpsOnly", "equals": "false"}, "then": {"effect": ["parameters(effect)"]}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/b559d996-c92c-4f35-991d-b7072b185f6b"}, {"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", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "true"}, {"equals": "true"}], "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a631d8f5-eb81-4f9d-9ee1-77431371e4a3", "type": "Microsoft.Authorization/policyDefinitions", "name": "a631d8f5-eb81-4f9d-9ee1-77431371e4a3", "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.", "metadata": {"version": "1.0.0", "category": "SQL"}, "parameters": {"effect": "AuditIfNotExists", "String", "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", "existenceCondition": {"field": "Microsoft.Sql/auditingSettings.state", "equals": ["Enabled"]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a6fb4358-5bf4-4ad7-ba82-2cd2f41ce5e9", "type": "Microsoft.Authorization/policyDefinitions", "name": "a6fb4358-5bf4-4ad7-ba82-2cd2f41ce5e9", {"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 is not installed.", "metadata": {"version": "1.0.0", "category": "Monitoring"}, "parameters": {"effect": "AuditIfNotExists", "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.Compute/virtualMachines/extensions", "existenceCondition": {"allOf": [{"field": "Microsoft.Compu"}}}
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":"Require encryption on Data Lake Store accounts","policyType":"BuiltIn","mode":"Indexed","description":"This policy ensures encryption is enabled on all Data Lake Store accounts","metadata":{"version":"1.0.0","category":"Data Lake"},"parameters":{}}},"policyDefinitions":null,"invalidPolicyDefinitions":null,"policyDefinitionsByKind":null,"policyDefinitionsByValue":null,"policyDefinitionsByType":null,"policyDefinitionsByMode":null,"policyDefinitionsByCategory":null,"policyDefinitionsByDisplayName":null,"policyDefinitionsByIdentifier":null,"policyDefinitionsByDescription":null,"policyDefinitionsByMetadata":null,"policyDefinitionsByParameters":null,"policyDefinitionsByEffect":null,"policyDefinitionsByDefaultValue":null,"policyDefinitionsByDefaultValue":null,"policyDefinitionsByExistenceCondition":null,"policyDefinitionsByDetails":null,"policyDefinitionsByEncryptionState":null,"policyDefinitionsByEncryption":{"id":"a7ff3161-0087-490a-9ad9-ad6217f4f43a","type":"Microsoft.Authorization/policyDefinitions","name":"a7ff3161-0087-490a-9ad9-ad6217f4f43a"},"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/a895fbdb-204d-4302-9689-0a59dc42b3d9","type":"Microsoft.Authorization/policyDefinitions","name":"a895fbdb-204d-4302-9689-0a59dc42b3d9"},"properties":{"displayName":"[Deprecated]: Monitor 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"},"parameters":null,"policyDefinitions":null,"invalidPolicyDefinitions":null,"policyDefinitionsByKind":null,"policyDefinitionsByValue":null,"policyDefinitionsByType":null,"policyDefinitionsByMode":null,"policyDefinitionsByCategory":null,"policyDefinitionsByDisplayName":null,"policyDefinitionsByIdentifier":null,"policyDefinitionsByDescription":null,"policyDefinitionsByMetadata":null,"policyDefinitionsByParameters":null,"policyDefinitionsByEffect":null,"policyDefinitionsByDefaultValue":null,"policyDefinitionsByDefaultValue":null,"policyDefinitionsByExistenceCondition":null,"policyDefinitionsByDetails":null,"policyDefinitionsByEncryptionState":null,"policyDefinitionsByEncryption":null,"policyDefinitionsByEncryption":{"id":"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"}
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Managed Control 1400 - Controlled Maintenance

# Microsoft Managed Control 1400 - Controlled Maintenance

Microsoft implements this Maintenance control, metadata: 

- **Policy Type:** Static, mode: Indexed, description: 
- **Policy Rule:** if: 
  
  ```json
  { "allOf": [
    { "field": "type", "in": ["Microsoft.Resources/subscription", "Microsoft.Resources/subscriptionGroups"], "value": false, "equals": true },
    { "field": "type", "in": ["Microsoft.Resources/subscription", "Microsoft.Resources/subscriptionGroups"], "value": false, "equals": true }
  ] }
  ```

  then: 

  ```json
  { "effect": "audit" }
  ```

  id: 

  ```json
  /providers/Microsoft.Authorization/policyDefinitions/a96d5098-a604-4cdf-90b1-ef6449a27424,
  ```

  type: Microsoft.Authorization/policyDefinitions, name: 

  ```json
  a96d5098-a604-4cdf-90b1-ef6449a27424
  ```

# Microsoft Managed Control 1118 - Audit Review, Analysis, And Reporting | Correlate Audit Repositories

Microsoft implements this Audit and Accountability control, metadata: 

- **Policy Type:** Static, mode: Indexed, description: 
- **Policy Rule:** if: 
  
  ```json
  { "allOf": [
    { "field": "type", "in": ["Microsoft.Resources/subscription", "Microsoft.Resources/subscriptionGroups"], "value": false, "equals": true },
    { "field": "type", "in": ["Microsoft.Resources/subscription", "Microsoft.Resources/subscriptionGroups"], "value": false, "equals": true }
  ] }
  ```

  then: 

  ```json
  { "effect": "audit" }
  ```

  id: 

  ```json
  /providers/Microsoft.Authorization/policyDefinitions/a96f743d-a195-420d-983a-08aa06bc441e,
  ```

  type: Microsoft.Authorization/policyDefinitions, name: 

  ```json
  a96f743d-a195-420d-983a-08aa06bc441e
  ```

# Microsoft Managed Control 1199 - Configuration Change Control | Cryptography Management

Microsoft implements this Configuration Management control, metadata: 

- **Policy Type:** Static, mode: Indexed, description: 
- **Policy Rule:** if: 
  
  ```json
  { "allOf": [
```
Deploy network watcher when virtual networks are created.

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.

Microsoft Managed Control 1511 - Personnel Screening

This policy implements this Personnel Security control, which 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.

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- **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/complianceResults",
            "name": "EnableMFAForOwnerPermissions",
            "existenceCondition": {
              "field": "Microsoft.Security/complianceResults/resourceStatus",
              "in": ["OffByPolicy", "Healthy"]
            } |
          }
        } |
      }
    },
    "id": "/providers/Microsoft.Authorization/policyDefinitions/aa633080-8b72-40c4-a2d7-d00c03e80bed",
    "properties": {
      "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",
      "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",
              "in": ["Microsoft.Web/sites"]
            } |
          },
          "then": {
            "effect": ["parameters("effect")"],
            "details": {
              "type": "Microsoft.Web/sites/config",
              "name": "web",
              "existenceCondition": {
                "field": "Microsoft.Web/sites/config/web.managedServiceIdentityId",
                "true": true
              } |
            }
          }
        },
        "id": "/providers/Microsoft.Authorization/policyDefinitions/aa81768c-cb87-4ce2-bfaa-00baa10d760c",
        "properties": {
          "displayName": "Microsoft Managed Control 1539 - Security Categorization",
          "policyType": "Static",
          "mode": "Indexed",
          "description": "Microsoft implements this Risk Assessment control",
          "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1539"},
          "policyRule": {
            "if": {
              "allOf": [{
                "field": "type",
                "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
              },
              "value": false,
              "equals": true
            } |
          },
          "id": "/providers/Microsoft.Authorization/policyDefinitions/aabb155f-e7a5-4896-a767-e918fbac2ee0",
          "properties": {
            "displayName": "Microsoft Managed Control 1006 - 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/ACF1006"},
            "policyRule": {
              "if": {
                "allOf": [{
                  "field": "type",
                  "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
                },
                "value": false,
                "equals": true
              } |
            },
            "id": "/providers/Microsoft.Authorization/policyDefinitions/aee8d54c-4bce-4c04-b3aa-5b65b67aaca8",
            "properties": {
              "displayName": "Microsoft Authorization/policyDefinitions", "name": "aee8d54c-4bce-4c04-b3aa-5b65b67aaca8",
            } |
          }
        },
        "id": "/providers/Microsoft.Authorization/policyDefinitions/aae8d54c-4bce-4c04-b3aa-5b65b67aaca8",
        "properties": {
          "displayName": "Microsoft Managed Control 1461 - 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/ACF1461"},
          "policyRule":
        }
      }
    }
  } |

Managed Control 1073 - Access Control For Mobile Devices

- "if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/aaef03e-fa8-470b-88fa-54bd1fcd7064", "type": "Microsoft.Authorization/authorization/policyDefinitions", "name": "aaef03e-fa8-470b-88fa-54bd1fcd7064"}, {"properties": {"displayName": "Microsoft Access Control For Mobile Devices", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": 1.0.0, "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1073"}, "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/ab55c6b0-c7dd-4bd8-ae22-a7cea7594e9c", "type": "Microsoft.Authorization/authorization/policyDefinitions", "name": "ab55c6b0-c7dd-4bd8-ae22-a7cea7594e9c"}, {"properties": {"displayName": "Ensure that 'PHP version' is the latest, if used as a part of the Function app", "policyType": "BuiltIn", "mode": "Indexed", "description": "Periodically, newer versions are released for PHP software either due to security flaws or to include additional functionality. Using the latest PHP version for Function 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"}, "PHPLatestVersion": {"type": "String", "metadata": {"displayName": "Latest PHP version", "description": "Latest supported PHP version for App Services"}, "defaultValue": "7.3"}, "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": {"anyOf": [{"allOf": [{"field": "Microsoft.Web/sites/config/web.linuxFxVersion", "notContains": "PHP"}, {"field": "Microsoft.Web/sites/config/web.phpVersion", "equals": ""}], "allOf": [{"field": "Microsoft.Web/sites/config/web.linuxFxVersion", "equals": [concat('PHP', parameters('PHPLatestVersion'))]}, {"field": "Microsoft.Web/sites/config/web.phpVersion", "equals": ""}], "allOf": [{"field": "Microsoft.Web/sites/config/web.linuxFxVersion", "equals": ""}, {"field": "Microsoft.Web/sites/config/web.phpVersion", "equals": ""}], "parameters": ["PHPLatestVersion"]}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/ab965db2-d2bf-4b64-8b39-c383c8179461", "type": "Microsoft.Authorization/authorization/policyDefinitions", "name": "ab965db2-d2bf-4b64-8b39-c383c8179461"}, {"properties": {"displayName": " Deprecated: Automatic provisioning of security monitoring agent", "policyType": "BuiltIn", "mode": "All", "description": "Installs security agent on VMs for advanced security alerts and prevention in Azure Security Center. Applies only for subscriptions that use Azure Security Center."}, "metadata": {"version": 1.0.0-deprecated, "category": "Security Center", "deprecated": true}, "parameters": {}}, "policyRule": {"if": {"field": "type", "in": ["Microsoft.Compute/virtualMachines", "Microsoft.ClassicCompute/virtualMachines"]}, "then": {"effect": "AuditIfNotExists", "details": {"type": "Microsoft.Security/complianceResults", "name": "securityAgent", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]}}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/abcc6037-1fc4-47f6-aac5-89706589be24", "type": "Microsoft.Authorization/authorization/policyDefinitions", "name": "abcc6037-1fc4-47f6-aac5-89706589be24"}, {"properties": {"displayName": "Microsoft Open Source Used In SDWan 20.9.1 10760"}}}
Managed Control 1323 - Authenticator

Microsoft implements this Identification and Authentication control.

Policy Compliance

Microsoft implements the Authentication control.

PolicyType: Static

PolicyMetaData: Regulatory Compliance

Managed Control 1323 - Authenticator

Microsoft implements the Identification and Authentication control.

PolicyType: Static

PolicyMetaData: Regulatory Compliance

Managed Control 1323 - Authenticator

Microsoft implements the Identification and Authentication control.

PolicyType: Static

PolicyMetaData: Regulatory Compliance

Managed Control 1323 - Authenticator

Microsoft implements the Identification and Authentication control.

PolicyType: Static

PolicyMetaData: Regulatory Compliance

Managed Control 1323 - Authenticator

Microsoft implements the Identification and Authentication control.

PolicyType: Static

PolicyMetaData: Regulatory Compliance

Managed Control 1323 - Authenticator

Microsoft implements the Identification and Authentication control.

PolicyType: Static

PolicyMetaData: Regulatory Compliance
Managed Control 1056 - Session Termination | User-Initiated Logouts / Message Displays


Role-Based Access Control (RBAC) should be used on Kubernetes Services

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 policies.

Managed Control 1569 - Acquisition Process


Open Source Used In SDWan 20.9.1 10762
Managed Control 1454 - 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/ACF1454" }, "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/ad58985d-ab32-4f99-8bd3-b7e134ec90229" }, "properties": {"displayName": "Microsoft Managed Control 1025 - Account Management | Account Monitoring / Atypical Usage", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control management | Account Monitoring / Atypical Usage policy, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1025" }, "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/adfe020d-0a97-45f4-a39c-696ef99fa95" }, "properties": {"displayName": "Microsoft Managed Control 1272 - Alternate Processing Site", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1272" }, "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/ae46cf7a-e3fd-427b-9b91-44bc78e2d9d8" }, "properties": {"displayName": "SQL Server should use a virtual network service endpoint", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any SQL Server 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.Sql/servers"}, "then": {"effect": ["parameters('effect')"]}, "details": {"type": "Microsoft.Sql/servers/virtualNetworkRules", "existenceCondition": {"field": "Microsoft.Sql/servers/virtualNetworkRules/virtualNetworkSubnetId", "exists": "true"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/ae5d2f14-d830-42b6-9899-df6ce9c71a3" }, "properties": {"displayName": "Microsoft Managed Control 1598 - 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/ACF1598" }, "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/ad58985d-ab32-4f99-8bd3-b7e134ec90229" }, "properties": {"displayName": "Microsoft
notifications to admins and subscription owners should be enabled in SQL managed instance advanced data security settings", "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit that "email notification to admins and subscription owners" is enabled in the SQL managed instance advanced threat protection settings. This ensures that any detections of anomalous activities on SQL managed instance are reported as soon as possible to the admins."

"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.Sql/managedInstances"}, "then": {"effect": ["parameters('effect')"]}, "details": {"type": "Microsoft.Sql/managedInstances/securityAlertPolicies", "name": "default", "existenceCondition": {"field": "Microsoft.Sql/managedInstances/securityAlertPolicies/emailAccountAdmins", "equals": "true"}}}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/aeedddb6-6bc0-42d5-809b-8004803419d", "type": "Microsoft.Authorization/policyDefinitions", "name": "aeedddb6-6bc0-42d5-809b-8004803419d"}, {"properties": {"displayName": "Microsoft Managed Control 1710 - 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/ACF1710"}, "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/af2a93c8-e6dd-4c94-acdd-4a2eefdc478e", "type": "Microsoft.Authorization/policyDefinitions", "name": "af2a93c8-e6dd-4c94-acdd-4a2eefdc478e"}, {"properties": {"displayName": "Monitor missing Endpoint Protection in Azure Security Center", "policyType": "BuiltIn", "mode": "All", "description": "Servers without an installed Endpoint Protection agent 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": {"field": "type", "in": ["Microsoft.Compute/virtualMachines", "Microsoft.ClassicCompute/virtualMachines"]}, "then": {"effect": ["parameters('effect')"]}, "details": {"type": "Microsoft.Security/complianceResults", "name": "endpointProtection"}}}}}}}}

Open Source Used In SDWan 20.9.1 10764
Monitor unaudited SQL servers in Azure Security Center, "policyType": "BuiltIn", "mode": "All", "description": "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 Server".

Microsoft Managed Control 1645 - Cryptographic Key Establishment And Management | Symmetric Keys, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control.

Activity log should be retained for at least one year, "policyType": "BuiltIn", "mode": "All", "description": "This policy audits the activity log if the retention is not set for 365 days or forever (retention days set to 0).

Open Source Used In SDWan 20.9.1 10765
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" }

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" }

Management ports of virtual machines should be protected with just-in-time network access control, "policyType": "BuiltIn", "mode": "All", "description": "Possible network Just In Time (JIT) access will be monitored by Azure Security Center as recommendations", "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.Compute/virtualMachines" }, "then": {"effect": {"parameters\["effect\]"}}, "details": {"type": "Microsoft.Security/complianceResults", "name": "jitNetworkAccess", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"] } }, "id": "providers/Microsoft.Authorization/policyDefinitions/b0f33259-77d7-4c9e-aac6-3aabcfae693c" }

Microsoft Managed Control 1571 - Acquisition Process, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition Process control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1571" }

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 1078 - Use Of External Information Systems | Limits On Authorized Use

Microsoft implements this Access Control control. The category is Regulatory Compliance.

Managed Control 1009 - Account Management

Microsoft implements this Access Control control. The category is Regulatory Compliance.

All authorization rules except RootManageSharedAccessKey should be removed from Event Hub namespace.

Inherit a tag from the subscription.

Open Source Used In SDWan 20.9.1 10768
Open Source Used In SDWan

Microsoft

Managed Control 1234 - Software Usage
Restrictions, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1234"}, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"]}, "then": {"effect": "audit"}}}

Managed Control 1107 - Content Of Audit Records, "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/ACF1107"}, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"]}, "then": {"effect": "audit"}}}

Deploy prerequisites to audit Windows web servers that are not using secure communication protocols, "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows web servers that are not using secure communication protocols (TLS 1.1 or TLS 1.2). 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": {"MinimumTLSVersion": {"type": "String", "metadata": {"displayName": "Minimum TLS version"}, "allowedValues": ["1.1", "1.2"], "defaultValue": "1.1"}}}

TLS version, "description": "The minimum TLS protocol version that should be enabled. Windows web servers with lower TLS versions will be marked as non-compliant."


Open Source Used In SDWan 20.9.1 10769
Open Source Used In SDWan

10770
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.
Microsoft Managed Control 1380 - Incident Response Plan

Microsoft implements this Incident Response control, with the following metadata:
- Version: 1.0.0
- Category: Regulatory Compliance
- Additional Metadata ID: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1380

Policy Rule:
- If: [field: type, equals: Microsoft.ManagedControl1380]
- Then: Effect: audit

Microsoft Managed Control 1172 - Internal System Connections

Microsoft implements this Security Assessment and Authorization control, with the following metadata:
- Version: 1.0.0
- Category: Regulatory Compliance
- Additional Metadata ID: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1172

Policy Rule:
- If: [field: type, equals: Microsoft.ManagedControl1172]
- Then: Effect: audit

Microsoft Managed Control 1672 - Flaw Remediation | Central Management

Microsoft implements this System and Information Integrity control, with the following metadata:
- Version: 1.0.0
- Category: Regulatory Compliance
- Additional Metadata ID: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1672

Policy Rule:
- If: [field: type, equals: Microsoft.ManagedControl1672]
- Then: Effect: audit
Managed Control 1131 - Protection Of Audit Information

Microsoft

implements this Audit and Accountability control,

Microsoft

implements this Audit and Accountability control,

Microsoft

implements this Audit and Accountability control,
Public network access should be disabled for PostgreSQL servers.

This policy audits PostgreSQL servers in your environment with public network access enabled. For more details, visit https://go.microsoft.com/fwlink/?linkid=2120015.

Service Fabric clusters should only use Azure Active Directory for client authentication.

Fabric clusters should only use Azure Active Directory for client authentication only via Azure Active Directory in Service Fabric.

Deploy Advanced Threat Protection for Cosmos DB Accounts.

This policy enables Advanced Threat Protection across Cosmos DB accounts.

Open Source Used In SDWan 20.9.1 10774
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(''effect'')]", "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-e7d9-4eee-9e5c-83f1bcee4fa0", "name": "b607c5de-e7d9-4eee-9e5c-83f1bcee4fa0" }, "properties": {"displayName": "Microsoft Managed Control 1419 - Nonlocal Maintenance | Cryptographic Protection", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1419" }, "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/b6747bf9-2b97-45b8-b162-3c8becb9937d", "name": "b6747bf9-2b97-45b8-b162-3c8becb9937d" }, "properties": {"displayName": "Microsoft Managed Control 1301 - Identification And Authentication (Org. Users) | Network Access To 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/ACF1301" }, "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/b6a8e0cc-ac23-468b-abe4-a8a1c6d7a08", "name": "b6a8e0cc-ac23-468b-abe4-a8a1c6d7a08" }, "properties": {"displayName": "Microsoft Managed Control 1568 - 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/ACF1568" }, "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/b6a8eae8-9854-495a-ac82-d2cd3ea02a6", "name": "b6a8eae8-9854-495a-ac82-d2cd3ea02a6" }, "properties": {"displayName": "Network Watcher should be enabled", "policyType": "BuiltIn", "mode": "All", "description": "Network Watcher is a regional service that enables you to monitor and diagnose 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 Watcher is a regional service that enables you to monitor and diagnose 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."}
diagnostic and visualization tools available with Network Watcher help you understand, diagnose, and gain insights to your network in Azure.

If Network Watcher is not enabled for region(s), auditIfNotExists, details:

type: Microsoft.Network/NetworkWatchers, resourceGroupName: NetworkWatcherRG, existenceCondition: field: location, in: [parameters('locations')]

Managed Control 1608 - Supply Chain Protection

Managed Control 1401 - Controlled Maintenance

App should only be accessible over HTTPS, Use of HTTPS ensures server/service authentication and protects data in transit from network layer eavesdropping attacks.

App prerequisites to audit Windows VMs in which the Administrators group does not contain only the specified members, 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.
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10777


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.
Deploy Diagnostic Settings for Logic Apps to Log Analytics workspace

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.

- **metadata**: 
  - "version": "1.0.0",
  - "category": "Monitoring"
- **parameters**: 
  - "effect": "DeployIfNotExists"
  - "profileName": "setbypolicy_logAnalytics"
  - "logAnalytics": "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.

- **allowedValues**: 
  - "True",
  - "False"
- **metricsEnabled**: 
  - "True",
  - "False"
- **logsEnabled**: 
  - "True",
  - "False"

**Deployment Template**: 

```
"variables": {"resourceName": "Microsoft.Logic/workflows/providers/diagnosticSettings","apiVersion": "2017-05-01-preview"}
```

**Resources**: 

```
"resourceName": ["Microsoft.Logic/workflows/providers/diagnosticSettings"],
"apiVersion": "2017-05-01-preview"
```

**Policy Rule**: 

```
"if": {"field": "type", "equals": "Microsoft.Logic/workflows"},
"then": {"effect": ["DeployIfNotExists"]}
```

- **Role Definition IDs**: 
  - "/providers/Microsoft.Authorization/roleDefinitions/749f88d5-cbae-40b8-bcfc-e573ddc772fa",
  - "/providers/Microsoft.Authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3-d43ce8d16293"

- **Parameters**: 
  - "resourceName",
  - "location",
  - "logAnalytics",
  - "metricsEnabled",
  - "logsEnabled",
  - "profileName",
  - "workspaceId"

- **Metadata**: 
  - "displayName": "Deploy Diagnostic Settings for Logic Apps to Log Analytics workspace",
  - "policyType": "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."
Managed Control 1447 - 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/ACF1447"}, "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/b978a99-98fe-4a95-873f-29613309fe9a","type": "Microsoft.Authorization/policyDefinitions", "name": "b978a99-98fe-4a95-873f-29613309fe9a"}, {"properties": {"displayName": "Microsoft Managed Control 1625 - Boundary Protection | Access Points", "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/ACF1625"}, "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/b9b66a4d-70a1-4b47-8fa1-289cec68c605","type": "Microsoft.Authorization/policyDefinitions", "name": "b9b66a4d-70a1-4b47-8fa1-289cec68c605"}, {"properties": {"displayName": "Microsoft Managed Control 1610 - Development Process, Standards, And Tools", "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/ACF1610"}, "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/b9f3fb54-4222-46a1-a308-4874061f8491","type": "Microsoft.Authorization/policyDefinitions", "name": "b9f3fb54-4222-46a1-a308-4874061f8491"}, {"properties": {"displayName": "[Preview]: Show audit results from Windows VMs configurations in "Security Options - Recovery console"", "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 - Recovery console". 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": ["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"]}},
Managed Control 1188 - Configuration Change

Control

Managed Control 1533 - Third-Party Personnel

Security
two integers separated by a comma, denoting an inclusive range.
"},"defaultValue":"1,15"},"MicrosoftNetworkServerDigitallySignCommunicationsAlways":{"type":"String","metadata":{"displayName":"[Preview]:
Microsoft network server: Digitally sign communications (always)","description":"Specifies whether packet signing is required by the SMB server component."},"defaultValue":"1"},"MicrosoftNetworkServerDisconnectClientsWhenLogonHoursExpire":{"type":"String","metadata":{"displayName":"[Preview]:
Microsoft network server: Disconnect clients when logon hours expire","description":"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"."},"defaultValue":"1"}}},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines"},{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsHPCPack"],"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-*"}],"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":false}],"allOf":[{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"}],"allOf":[{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]}}},"then":{"effect":"deployIfNotExists","details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"],"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"AzureBaseline_SecurityOptionsMicrosoftNetworkClient","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash","equals":"[base64(concat('Microsoft network client: Digitally sign communications (always):ExpectedValue","="),parameters("MicrosoftNetworkClientDigitallySignCommunicationsAlways"),"","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: Digitally sign communications (always);ExpectedValue",
"="
parameters("MicrosoftNetworkServerDigitallySignCommunicationsAlways"))}],"deployment": ["properties":
{"mode": "incremental","parameters":
{"vmName": ["field('name')"],"location": ["field('location')"],"type": ["field('type')"],"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.*","configurationParameter":
["name": "Microsoft network client: Digitally sign communications (always);ExpectedValue",
"value": [parameters("MicrosoftNetworkClientDigitallySignCommunicationsAlways"))]}
,"name": "Microsoft network client: Send unencrypted password to third-party SMB servers;ExpectedValue",
"value": [parameters("MicrosoftNetworkClientSendUnencryptedPasswordToThirdpartySMBServers"))]
,"name": "Microsoft network server: Amount of idle time required before suspending session;ExpectedValue",
"value": [parameters("MicrosoftNetworkServerAmountOfIdleTimeRequiredBeforeSuspendingSession"))]
,"name": "Microsoft network server: Digitally sign communications (always);ExpectedValue",
"value": [parameters("MicrosoftNetworkServerDigitallySignCommunicationsAlways"))]
,"name": "Microsoft network server: Disconnect clients when logon hours expire;ExpectedValue",
"value": [parameters("MicrosoftNetworkServerDisconnectClientsWhenLogonHoursExpire"))]
],"condition": ["equals(toLower(parameters('type'))),
  toLower('microsoft.hybridcompute/machines'),
  toLower('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": "Microsoft..."
network client: Digitally sign communications
(always);ExpectedValue","value":"[parameters(''MicrosoftNetworkClientDigitallySignCommunicationsAlways'')]"}
,{"name":"Microsoft
network client: Send unencrypted password to third-party SMB
servers;ExpectedValue","value":"[parameters(''MicrosoftNetworkClientSendUnencryptedPasswordToThirdpartySM
BServers'')]"},{"name":"Microsoft
network server: Amount of idle time required before suspending
session;ExpectedValue","value":"[parameters(''MicrosoftNetworkServerAmountOfIdleTimeRequiredBeforeSuspen
dingSession'')]"},{"name":"Microsoft
network server: Digitally sign communications
(always);ExpectedValue","value":"[parameters(''MicrosoftNetworkServerDigitallySignCommunicationsAlways'')]"
},{"name":"Microsoft
network server: Disconnect clients when logon hours
expire;ExpectedValue","value":"[parameters(''MicrosoftNetworkServerDisconnectClientsWhenLogonHoursExpire''
)]"}]}}},{"condition":"[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/bbcdd8fa-b600-4ee3-85b8d184e3339652","type":"Microsoft.Authorization/policyDefinitions","name":"bbcdd8fa-b600-4ee3-85b8d184e3339652"},{"properties":{"displayName":"[Deprecated]:
Audit API Applications that are not using latest supported Python
Framework","policyType":"BuiltIn","mode":"All","description":"Use
the latest supported Python version for the latest security classes. Using
older classes and types can make your application vulnerable.","metadata":{"version":"1.0.0deprecated","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/complianceRe
sults","name":"UseLatestPython","existenceCondition":{"field":"Microsoft.Security/complianceResults/resourceSta
tus","in":["OffByPolicy","Healthy"]}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/bc0378bbd7ab-4614-a0f6-5a6e3f02d644","type":"Microsoft.Authorization/policyDefinitions","name":"bc0378bb-d7ab-4614a0f6-5a6e3f02d644"},{"properties":{"displayName":"Microsoft
Managed Control 1194 - 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/ACF1194"},"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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Show audit results from Windows VMs configurations in "System Audit Policies - Account Logon".

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 - Account Logon". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Managed Control 1427 - Media Protection Policy And Procedures

"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Media Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1427"},"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/be90e44f-d83f-4bdf-900f-3d5eb411b31","type":"Microsoft.Authorization/policyDefinitions","name":"bc90e44f-d83f-4bdf-900f-3d5eb411b31"}, {"properties": {"displayName": "Microsoft Managed Control 1351 - Incident Response Policy And Procedures","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1351"},"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/bcfb6683-05e5-4ce6-9723-c3fbe989b6dd","type":"Microsoft.Authorization/policyDefinitions","name":"bcfb6683-05e5-4ce6-9723-c3fbe989b6dd"}, {"properties": {"displayName": "Microsoft Managed Control 1050 - Concurrent Session 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/ACF1050"},"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/bd20184c-b4ec-4ce5-8db6-6e86352d183f","type":"Microsoft.Authorization/policyDefinitions","name":"bd20184c-b4ec-4ce5-8db6-6e86352d183f"}, {"properties": {"displayName": "IP Forwarding on your virtual machine should be disabled"},"policyType":"BuiltIn","mode":"All","description":"Enabling 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."},"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","in": ["Microsoft.Compute/virtualMachines","Microsoft.ClassicCompute/virtualMachines"]}, {"then": [{"effect": parameters("effect")}],"details": [{"type": "Microsoft.Security/complianceResults","name": "disableIPForwarding","existenceCondition": [{"field": "Microsoft.Security/complianceResults/resourceStatus","in": ["Monitored","OffByPolicy","Healthy"]}]}],"id": "/providers/Microsoft.Authorization/policyDefinitions/bd352bd5-2853-4985-bf0d-73806b4a5744"},"type": "Microsoft.Authorization/policyDefinitions","name": "bd352bd5-2853-4985-bf0d-73806b4a5744"}, {"properties": {"displayName": "Advanced Threat Protection types should be set to "All" in SQL managed instance Advanced Data Security settings"},"policyType":"BuiltIn","mode":"Indexed","description":"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."},"metadata": {"version": "1.0.1","category": "SQL"},"parameters": {"effect": {"type": "String","metadata": {"
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**4.1.0**

- **DisplayName**: "Effect", **description**: "Enable or disable the execution of the policy."
- **allowedValues**: ["AuditIfNotExists", "Disabled"]
- **defaultValue**: "AuditIfNotExists"

**Policy Rule**

- **if**: "["field": "type", "equals": "Microsoft.Sql/managedInstances"]
- **then**: "["effect": "[parameters(\"effect\")]", "details": ["type": "Microsoft.Sql/managedInstances/securityAlertPolicies", "name": "default", "existenceCondition": ["\"field\": \"Microsoft.Sql/managedInstances/securityAlertPolicies/disabledAlerts\"[\"*\"], \"equals\": \"\"]]}

**Id**: /providers/Microsoft.Authorization/policyDefinitions/bda18df3-5e41-4709-addr9-2554ce68c966

**DisplayName**: "Enable or disable the execution of the policy."

- **Policy Rule**: ["if": "\"field\": \"type\", \"equals\": \"Microsoft.Sql/managedInstances\"], ["then": "\"effect\": \"[parameters(\"effect\")\"], \"details": ["\"type\": \"Microsoft.Sql/managedInstances/securityAlertPolicies\", \"name\": \"default\", \"existenceCondition": [\"\"field\": \"Microsoft.Sql/managedInstances/securityAlertPolicies/disabledAlerts\"[\"*\"], \"equals\": \"\"]]}

**Id**: /providers/Microsoft.Authorization/policyDefinitions/bda18df3-5e41-4709-addr9-2554ce68c966

**DisplayName**: "Show audit results from Windows VMs in which the Administrators group contains any of the specified members."

- **Policy Rule**: ["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\": \"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.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\": \"AdministratorsGroupMembersToExclude\", \"existenceCondition": ["\"field\": \"Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus\", \"equals\": \"Compliant\"]], ["id": /providers/Microsoft.Authorization/policyDefinitions/bde62c94-ccca-4821-a815-92c1d31a76de], ["type": \"Microsoft.Authorization/policyDefinitions\", \"name\": \"bde62c94-ccca-4821-a815-92c1d31a76de\"], ["properties": ["\"displayName\": \"Deprecated\"], ["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.\"], ["metadata": ["\"version\": \"1.0.0-
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`deprecated","category":"Security Center","deprecated":true},"parameters":{
"effect":{
"type":"String","metadata":{
"displayName":"[Deprecated]: Effect","description":"Enable or disable the execution of the policy"},"allowedValues":{
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"field":kind,"equals":"app,linux",
"field":kind,"equals":"app,linux,container"}
},
"then":{
"effect":{
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"details":{
"type":"Microsoft.Security/complianceResults/resourceStatus","in":"[OffByPolicy,"Healty"]"},
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"value":false,"equals":true},
"then":{
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"name":be5b05e7-0b82-4ebc-9eda-25e447b1a41e},
"properties":{
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"category":Guest Configuration","version":1.1.0-Preview","preview":true,"requiredProviders":microsoft.GuestConfiguration],
"guestConfiguration":{
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"parameters":{
"NotAvailableMachineState":{
"type":String,"metadata":{
"displayName":"[Preview]: Status if Windows Defender is not available on machine","description":"Windows Defender Exploit Guard is only available starting with Windows 10/Windows Server with update 1709. Setting this value to "Non-Compliant" shows machines with older versions on which Windows Defender Exploit Guard is not available (such as Windows Server 2012 R2) as non-compliant. Setting this value to "Compliant" shows these machines as compliant."},
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"Compliant","Non-Compliant"},
"defaultValue":"Non-Compliant"},
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"allOf":{
"field":Microsoft.Compute/imageOffer,"equals":Microsoft.WindowsServer"},
"field":Microsoft.Compute/imageOffer,notLike:2008*,
"allOf":{
"field":Microsoft.Compute/imagePublisher,"equals":MicrosoftSQLServer"},
"field":Microsoft.Compute/imageOffer,notLike:SQL2008*,
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"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-
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ettings","name":"[parameters(''profileName'')]","existenceCondition":{"allOf":[{"field":"Microsoft.Insights/diagnost
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n/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":{"resourceName":{"type":"string"},"locati
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diagnosticSettings","apiVersion":"2017-05-01-preview","name":"[concat(parameters(''resourceName''),
''/'', ''Microsoft.Insights/'',
parameters(''profileName''))]","location":"[parameters(''location'')]","dependsOn":[],"properties":{"workspaceId":"[p
arameters(''logAnalytics'')]","metrics":[{"category":"AllMetrics","enabled":"[parameters(''metricsEnabled'')]","retent
ionPolicy":{"enabled":false,"days":0}}],"logs":[{"category":"AuditEvent","enabled":"[parameters(''logsEnabled'')]"
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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
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storage should be enabled for Storage Accounts","policyType":"BuiltIn","mode":"Indexed","description":"This
policy audits any Storage Account with geo-redundant storage not
enabled.","metadata":{"version":"1.0.0","category":"Storage"},"parameters":{"effect":{"type":"String","metadata":{
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Managed Control 1590 - External Information System Services | Risk Assessments
/ Organizational Approvals","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/ACF1590"},"policyRule

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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": [{"value": "Audit", "displayName": "Audit"}, {"value": "Deny", "displayName": "Deny"}, {"value": "Disabled", "displayName": "Disabled"}], "defaultValue": "Audit"}, "approvedExtensions": {"type": "Array", "metadata": {"description": "The list of approved extension types that can be installed. Example: AzureDiskEncryption"}}}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines/extensions"}, {"field": "Microsoft.Compute/virtualMachines/extensions/type", "notIn": ["approvedExtensions"]}]}}, "then": {"effect": ["parameters(''effect'')"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c0e996f8-39cf-4af9-9f45-83fbde810432", "type": "Microsoft.Authorization/policyDefinitions", "name": "c0e996f8-39cf-4af9-9f45-83fbde810432", "properties": {"displayName": "Microsoft Managed Control 1124 - Audit Reduction And Report Generation", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control."}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1124"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines/extensions"}, {"field": "Microsoft.Compute/virtualMachines/extensions/type", "notIn": ["approvedExtensions"]}]}}, "then": {"effect": ["parameters(''effect'')"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c10152dd-78f8-4335-ae2d-ad92cc028da4", "type": "Microsoft.Authorization/policyDefinitions", "name": "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."}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1676"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines/extensions"}, {"field": "Microsoft.Compute/virtualMachines/extensions/type", "notIn": ["approvedExtensions"]}]}}, "then": {"effect": ["parameters(''effect'')"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c10fb58b-56a8-489e-9ce3-7ffe24e78e4b", "type": "Microsoft.Authorization/policyDefinitions", "name": "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."}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1719"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines/extensions"}, {"field": "Microsoft.Compute/virtualMachines/extensions/type", "notIn": ["approvedExtensions"]}]}}, "then": {"effect": ["parameters(''effect'')"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c13da9b4-fe14-4fe2-853a-5997c9d4215a", "type": "Microsoft.Authorization/policyDefinitions", "name": "c13da9b4-fe14-4fe2-853a-5997c9d4215a", "properties": {"displayName": "Microsoft Managed Control 1226 - Information System Component Inventory | Automated Unauthorized Component Detection", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control."}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1226"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines/extensions"}, {"field": "Microsoft.Compute/virtualMachines/extensions/type", "notIn": ["approvedExtensions"]}]}}, "then": {"effect": ["parameters(''effect'')"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c13da9b4-fe14-4fe2-853a-5997c9d4215a", "type": "Microsoft.Authorization/policyDefinitions", "name": "c13da9b4-fe14-4fe2-853a-5997c9d4215a", "properties": {"displayName": "Microsoft Managed Control 1226 - Information System Component Inventory | Automated Unauthorized Component Detection", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control."}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1226"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines/extensions"}, {"field": "Microsoft.Compute/virtualMachines/extensions/type", "notIn": ["approvedExtensions"]}]}}, "then": {"effect": ["parameters(''effect'')"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c13da9b4-fe14-4fe2-853a-5997c9d4215a", "type": "Microsoft.Authorization/policyDefinitions", "name": "c13da9b4-fe14-4fe2-853a-5997c9d4215a", "properties": {"displayName": "Microsoft Managed Control 1226 - 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Information System Component Inventory | Automated Unauthorized Component Detection", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control."}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1226"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines/extensions"}, {"field": "Microsoft.Compute/virtualMachines/extensions/type", "notIn": ["approvedExtensions"]}]}}, "then": {"effect": ["parameters(''effect'')"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c13da9b4-fe14-4fe2-853a-5997c9d4215a", "type": "Microsoft.Authorization/policyDefinitions", "name": "c13da9b4-fe14-4fe2-853a-5997c9d4215a", "properties": {"displayName": "Microsoft Managed Control 1226 - Information System Component Inventory | Automated Unauthorized Component Detection", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control."}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1226"}}
Managed Control 1004 - Account Management

Allow resource creation only in Asia data centers,

**Policy Name:** Microsoft Managed Control 1004 - Account Management

**Policy Type:** Static

**Mode:** Indexed

**Description:** Microsoft implements this Access Control control

**Metadata:**
- **Version:** 1.0.0
- **Category:** Regulatory Compliance

**Policy Rule:**
- **If:** All fields false
- **Then:** Audit

**Additional Metadata:**
- **Category:** General
- **Location:** East Asia, Southeast Asia, West India, South India, Central India, Japan East, Japan West

**Supported Providers:**
- Microsoft.GuestConfiguration

**Parameters:**
- **AuditCredentialValidation:**
  - **Type:** String
  - **Description:** Specifies whether audit events are generated when credentials are submitted for a user account logon request. This setting is especially useful for monitoring unsuccessful attempts, to find brute-force attacks, account enumeration, and potential account compromise events on domain controllers.

**Preview:**

**Required Providers:**
- Microsoft.GuestConfiguration

**Description:**
This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: System Audit Policies - Account 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:** 1.1.0-preview
- **Category:** Guest Configuration

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_Authored with MetaMap_
Microsoft Managed Control 1503 - Information Security

Architecture, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Planning control", "metadata": {"version": "1.1.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1503" }, "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/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/gcpol", "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-08:00) 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 Juan", "(UTC-04:00) Santiago", "(UTC-03:30) Newfoundland", "(UTC-03:00) Araguaina", "(UTC-03:00) Brasilia", "(UTC-03:00) Cayenne, Fortaleza", "(UTC-03:00) City of Buenos Aires", "(UTC-03:00) Greenland", "(UTC-03:00) Montevideo", "(UTC-03:00) Punta Arenas", "(UTC-03:00) Saint Pierre and Miquelon", "(UTC-03:00) Salvador", "(UTC-02:00) Coordinated Universal Time-02", "(UTC-02:00) Mid-Atlantic - Old", "(UTC-01:00) Azores", "(UTC-01:00) Cabo Verde Is.", "(UTC) Coordinated Universal Time", "(UTC+00:00) Dublin, Edinburgh, Lisbon, London", "(UTC+00:00) Monrovia, Reykjavik", "(UTC+00:00) Sao Tome", "(UTC+01:00) "]}}}}}},
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Show audit results from Windows VMs on which the specified services are not installed.
and "Running"", "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 specified services are not installed and "Running".

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.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"}, {"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": 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/complianceStatus", "equals": "Compliant"}]}}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/c2dd2a9a-8a20-4a9c-b8d6-f17c6c26939a", "type": "Microsoft.Authorization/policyDefinitions", "name": "c2dd2a9a-8a20-4a9c-b8d6-f17c6c26939a"}, {"properties": {"displayName": "Ensure that ".NET Framework" version is the latest, if used as a part of the API 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": {"anyOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "*api"}], "then": {"effect": "parameters"}, "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"}}}},
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banana
Managed identity should be used in your API App, "policyType": "BuiltIn", "mode": "Indexed", "description": "Use a managed identity for enhanced authentication security."

Microsoft managed identity is recommended for your API App, "policyType": "BuiltIn", "mode": "Indexed", "description": "Use a managed identity for enhanced authentication security."

Metadata:
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- "policyType": "BuiltIn"
- "mode": "Indexed"
- "description": "Use a managed identity for enhanced authentication security."
- "metadata": "version": "1.0.0", "category": "App Service"
Managed Control 1408 - Maintenance Tools | Prevent Unauthorized Removal

This Microsoft control prevents unauthorized removal of Windows and Linux guest configuration assignments. It works by creating a guest configuration assignment to audit Windows virtual machines that contain certificates expiring 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.

Certificate store path

The path to the certificate store containing the certificates to check the expiration dates of. Default value is "Cert:" which is the root certificate store path, so all certificates on the machine will be checked. Other example paths: "Cert:\LocalMachine", "Cert:\LocalMachine\TrustedPublisher", "Cert:\CurrentUser".

Expiration limit in days

An integer indicating the number of days within which to check for certificates that are expiring. For example, if this value is 30, any certificate expiring within the next 30 days will cause this policy to be non-compliant.

Certificate thumbprints to include

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":{"t
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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 be
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Open Source Used In SDWan 20.9.1 10808


Managed Control 1670 - Flaw Remediation, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity..."
Open Source Used In SDWan 20.9.1

Managed Control 1190 - 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/ACF1190"}, "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/c66a3d1e-46b5-4f28-9da5-aef701b59892", "type": "Microsoft.Authorization/policyDefinitions", "name": "c66a3d1e-46b5-4f28-9da5-aef701b59892", "properties": {"displayName": "Microsoft Managed Control 1190 - Configuration Change"}

Managed Control 1120 - Audit Review, Analysis, And Reporting | Integration / Scanning And Monitoring Capabilities*, "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/ACF1120"}, "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/c69b870e-857b-458b-af02-bb234f7a00d3", "type": "Microsoft.Authorization/policyDefinitions", "name": "c69b870e-857b-458b-af02-bb234f7a00d3", "properties": {"displayName": "Microsoft Managed Control 1120 - Audit Review, Analysis, And Reporting | Integration / Scanning And Monitoring Capabilities"}

Managed Control 1125 - 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/ACF1125"}, "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/c6ce745a-670e-47d3-a6c4-3cfe5ef00c10", "type": "Microsoft.Authorization/policyDefinitions", "name": "c6ce745a-670e-47d3-a6c4-3cfe5ef00c10", "properties": {"displayName": "[Preview]: Deploy Diagnostic Settings for Recovery Services Vault to Log Analytics workspace for resource specific categories."}, "parameters": {"profileName": {"type": "String", "metadata": {"displayName": "[Preview]: 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"}}}
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-e7cb0532f7c1"}

Microsoft Managed Control 1121 - Audit Review, Analysis, And Reporting | Correlation with Physical Monitoring

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<td>Authentication should be enabled on your Function app</td>
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<td>c785ad59-f78f-44ad-9a7f-d1202318c748</td>
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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"}}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Sql/servers"}, "then": {"effect": "[parameters('effect')]", "details": {"type": "Microsoft.Sql/servers/securityAlertPolicies", "name": "default", "existenceCondition": {"field": "Microsoft.Sql/servers/securityAlertPolicies/emailAccountAdmins", "equals": true}}}}}

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Diagnostic Settings for Batch Account to Log Analytics workspace","policyType":"BuiltIn","mode":"Indexed","description":"Deploys 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.","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"}},"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"}},"logsEnabled":{"type":"String","metadata":{"displayName":"Enable logs","description":"Whether to enable logs stream to the Log Analytics workspace - True or False"}},"if":{"field":"type","equals":"Microsoft.Batch/batchAccounts"},"then":{"effect": "[parameters(''effect'')]","details":{"type":"Microsoft.Insights/diagnosticSettings","name": "[parameters(''profileName'')]","existenceCondition":{"allOf": ["field":"Microsoft.Insights/diagnosticSettings/logs.enabled","equals": "[parameters(''logsEnabled'')]"]},"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/749f88d5-cbae-40b8-bcfc-e573dce772fa","/providers/microsoft.authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3-d43ce8d16293"],"deployment":{"properties": {"mode": "incremental","template": "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": {"type": "string"},"resources": ["Microsoft.Batch/batchAccounts/providers/diagnosticSettings"],"apiVersion": "2017-05-01-preview"},"name": "[concat(parameters(''resourceName''))]","dependsOn": [],"outputs": {"workspaceId": [parameters(''logAnalytics'')],"metrics": ["category":"AllMetrics","enabled": [parameters(''metricsEnabled'')]","retentionPolicy": {"enabled": false,"days": 0}],"logs": ["category":"ServiceLog","enabled": [parameters(''logsEnabled'')]"]},"id": "[providers/Microsoft.Authorization/policyDefinitions/c84e5349-db6d-4769-805e-e14037d9ab9b5]/type="Microsoft.Authorization/policyDefinitions"},"name": "c84e5349-db6d-4769-805e-e14037d9ab9b5"},"properties": {"displayName": "[Deprecated]"}}
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Managed Control 1470 - Emergency
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urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
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Show audit results from Windows VMs configurations in ''Security Options Interactive Logon''","policyType":"BuiltIn","mode":"All","description":"This
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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 - Interactive Logon''. For more information on
Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":"1.0.0preview","category":"Guest
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Open Source Used In SDWan 20.9.1 10814


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10815

Managed Control 1018 - Account Management | Role-Based Schemes,
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/providers/Microsoft.Authorization/policyDefinitions/c8abcdef9-fc26-
48f2-b8db-5fa60ee4586d,

"properties": 
"displayName": "Microsoft Managed Control 1018 - Account Management | Role-Based Schemes", 
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control, metadata": 
"version": "1.0.0", 
"category": "Regulatory Compliance",
"additionalMetadataId": 
"providers/Microsoft.PolicyInsights/policyMetadata/ACF1018",
"policyRule": 
"allOf": 
"field": "type",
"in": 
"Microsoft.Resources/subscriptions",
"Microsoft.Resources/subscriptions/resourceGroups",
"value": "false",
"true"]
"then": 
"AuditIfNotExists"
"id": 
/providers/Microsoft.Authorization/policyDefinitions/c8abcdef9-fc26-
48f2-b8db-5fa60ee4586d,

"properties": 
"displayName": "Diagnostic logs in Data Lake Analytics 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": "Data Lake",
"parameters": 
"effect": 
"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.DataLakeAnalytics/accounts",
"then": 
"AuditIfNotExists",
"disabled": 
"false",
"true"]
"then": 
"AuditIfNotExists"
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/providers/Microsoft.Authorization/policyDefinitions/c95c74d9-
38fe-4f0d-af86-0c7d626a315c,

"properties": 
"displayName": 
"[Preview]: 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": 
"allOf": 
"field": "type",
"equals": "Microsoft.Compute/virtualMachines",
"anyOf": 
"field": "Microsoft.Compute/imagePublisher",
"in": 
"esri", "incredibuild", "Microsoft
Deploy prerequisites to audit Windows VMs with a pending reboot. This 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.
null
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**Metadata**:
- **DisplayName**: Storage Account Prefix for Regional Storage Account
- **Description**: This prefix will be combined with the network security group location to form the created storage account name.

**rgName**: 
- **Type**: String
- **Metadata**: Display Name: Resource Name for Storage Account (must exist)
- **Description**: The resource group that the storage account will be created in. This resource group must already exist.
- **Strong Type**: ExistingResourceGroups

**Policy Rule**:
- **If**: 
  - **Field**: type
  - **Equals**: Microsoft.Network/networkSecurityGroups
- **Then**: 
  - **Effect**: deployIfNotExists
  - **Details**: 
    - **Type**: Microsoft.Insights/diagnosticSettings
    - **Name**: setbypolicy
    - **Role Definition Ids**: 
      - /providers/microsoft.authorization/roleDefinitions/749f88d5-cbae-40b8-bfcf-e573ddc772fa
      - /providers/microsoft.authorization/roleDefinitions/17d1049b-9a84-46fb-8f53-869881c3d3ab
- **Deployment**:
  - **Properties**: 
    - **Mode**: incremental
    - **Template**: 
      - **$schema**: https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#
      - **contentVersion**: 1.0.0.0
      - **Parameters**: 
        - **location**: 
          - **Type**: string
        - **storagePrefix**: 
          - **Type**: string
        - **nsgName**: 
          - **Type**: string
        - **rgName**: 
          - **Type**: string
      - **Variables**: 
        - **storageDeployName**: 
          - concat(policyStorage_, uniqueString(parameters("location"), parameters("nsgName")))
        - **Resources**: 
          - 
            - **Type**: Microsoft.Network/networkSecurityGroups/providers/diagnosticSettings
            - **Name**: 
              - concat(parameters("nsgName"), Microsoft.Insights/setpolicy)
            - **ApiVersion**: 2017-05-01-preview
            - **Location**: 
              - parameters("location")
            - **DependsOn**: 
              - [variables("storageDeployName")]
            - **Properties**: 
              - storageAccountId: reference(variables(storageDeployName)).outputs.storageAccountId.value
              - logs: 
                - category: NetworkSecurityGroupEvent
                - enabled: true
                - retentionPolicy: 
                  - enabled: false
days: 0
            - category: NetworkSecurityGroupRuleCounter
            - enabled: true
            - retentionPolicy: 
              - enabled: false
days: 0

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**Policy Type**: BuiltIn
- **Mode**: Indexed
- **Description**: 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 accounts.
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.Storage/storageAccounts"], "field": "Microsoft.Storage/storageAccounts/networkAcls.bypass", "exists": true"], "then": ["effect": ["parameters['effect']"]]]}, id: "/providers/Microsoft.Authorization/policyDefinitions/c9d007d0-c057-4772-b18c-01e546713bcd"], "type": "Microsoft.Authorization/policyDefinitions", "name": "c9d007d0-c057-4772-b18c-01e546713bcd"}, "properties": ["displayName": "Microsoft
Managed Control 1035 - Least Privilege | Authorize Access To Security 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/ACF1035"], "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/ca94b046-45e2-444f-a862-de8ce262a516"], "type": "Microsoft.Authorization/policyDefinitions", "name": "ca94b046-45e2-444f-a862-de8ce262a516"}, "properties": ["displayName": "Microsoft Managed Control 1243 - 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/ACF1243"], "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/ca9a4469-d6df-4ab2-a42f-1213e396f0ee"], "type": "Microsoft.Authorization/policyDefinitions", "name": "ca9a4469-d6df-4ab2-a42f-1213e396f0ee"}, "properties": ["displayName": "Microsoft Managed Control 1306 - Identification And Authentication (Org. Users) | Net. Access To Priv. Accts. - Replay", "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/ACF1306"], "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/cafc6c3c-5fc5-4c5e-a99b-00100819"
Remote debugging should be turned off for Web Applications. Remote debugging requires inbound ports to be opened on a web application. Remote debugging should be turned off.

Microsoft implements this Physical and Environmental Protection control and this Incident Response control.

Managed Control 1486 - Alternate Work Site

Managed Control 1167 - Continuous Monitoring

Managed Control 1374 - Incident Response Assistance
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,"metadata":{"version":"1.0.0","category":"Guest Configuration"},"policyRule":{"if":{"anyOf":[]},"anyOf":[]},"then":{"effect":"auditIfNotExists"},"details":null}}  

**Id:** /providers/Microsoft.Authorization/policyDefinitions/cc7cda28-f867-4311-8497-a526129a8d19  

**Type:** Microsoft.Authorization/policyDefinitions  

**Name:** cc7cda28-f867-4311-8497-a526129a8d19  

**Properties:**  

- **DisplayName:** [Preview]: Sensitive data in your SQL databases should be classified  
- **PolicyType:** BuiltIn  
- **Mode:** Indexed  
- **Description:** Azure 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.  

For more information on how to configure this policy, please visit https://aka.ms/gcpol. For more information on Azure Security Center, please visit https://aka.ms/seccenter.
organization can deploy.\[
\{"metadata":\{"version":"1.0.1","category":"Compute","parameters":\{"listOfAllowedSKUs":\{"type":"Array","metadata":\{"description":"The list of size SKUs that can be specified for virtual machines."\},"displayName":"Allowed Size SKUs","strongType":"VMSKUs"\}\},"policyRule":\{"if":\{"allOf":\[\{"field":"type","equals":"Microsoft.Compute/virtualMachines\},\{"not":\{"field":"Microsoft.Compute/virtualMachines/sku.name","in":\[\"parameters\("listOfAllowedSKUs\)\]\}\}\]\},"then":\{"effect":"Deny"\}\},"id":"/providers/Microsoft.Authorization/policyDefinitions/cccc23c7-8427-4f53-ad12-b6a63eb452b3","type":"Microsoft.Authorization/policyDefinitions","name":"cccc23c7-8427-4f53-ad12-b6a63eb452b3"\}\},\{"properties":\{"displayName":"Microsoft Managed Control 1443 - Media Use","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Media Protection control","metadata":\{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1443"\},"policyRule":\{"if":\{"allOf":\[\{"field":"type","equals":"Microsoft.Resources/subscriptions","in":\[\"Microsoft.Resources/subscriptions/resourceGroups\]\}\],\"value":"false","equals":"true"\}\},"then":\{"effect":"audit"\}\},"id":"/providers/Microsoft.Authorization/policyDefinitions/cd0ec6fa-a2e7-4361-aee4-a8688659a9ed","type":"Microsoft.Authorization/policyDefinitions","name":"cd0ec6fa-a2e7-4361-aee4-a8688659a9ed"\}\},\{"properties":\{"displayName":"Inherit a tag from the resource group","policyType":"BuiltIn","mode":"Indexed","description":"Adds or replaces the specified tag and value from the parent resource group when any resource is created or updated. Existing resources can be remediated by triggering a remediation task.\"\},"metadata":\{"version":"1.0.0","category":"Tags","parameters":\{"tagName":\{"type":"String","metadata":\{"displayName":"Tag Name","description":"Name of the tag, such as \"environment\"\}"\},"policyRule":\{"if":\{\"allOf\"\[\"concat\"\(\"tags\"\[\"\"\\\"\"]\\),\"parameters\"\(\"tagName\"\)\]\\},\"notEquals\"\[\"\\"\\\"\"]\},\"then\"\[\"\"\]\"effect\"\[\"modify\"\],\"details\"\[\"roleDefinitionIds\"\[\"\"\\\"\"]\\],\"operations\"\[\"\"\\\"\]\}\},"id":"/providers/Microsoft.Authorization/policyDefinitions/cd3aa116-8754-49c9-a813-ad46512eecc54","type":"Microsoft.Authorization/policyDefinitions","name":"cd3aa116-8754-49c9-a813-ad46512eecc54"\}\},\{"properties":\{"displayName":"\[Deprecated\]: Allow resource creation if \"department\" tag set","policyType":"BuiltIn","mode":"Indexed","description":"Allows resource creation only if the \"department\" tag is set\"\},"metadata":\{"version":"1.0.0-deprecated","category":"Tags","parameters":\{\"key\="%22department\%22\"\}"\},"policyRule":\{"if":\{\"not\"\[\"\"\\\"\"]\"tags\"\[\"\"\\\"\"]\"department\"\]\\},\"then\"\[\"\"\]\"effect\"\[\"Deny\"\]\},"id":"/providers/Microsoft.Authorization/policyDefinitions/cd8dc879-a2ae-43c3-8211-1877c5755064","type":"Microsoft.Authorization/policyDefinitions","name":"cd8dc879-a2ae-43c3-8211-1877c5755064"\}\},\{"properties":\{"displayName":"Microsoft 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\"\[\"\"\\\"\"]\\},\"then\"\[\"\"\]\"effect\"\[\"Deny\"\]\},"id":"/providers/Microsoft.Authorization/policyDefinitions/9e7e604e-bcbe-479a-9c5c-108c26e6f522","type":"Microsoft.Authorization/policyDefinitions","name":"9e7e604e-bcbe-479a-9c5c-108c26e6f522"\}\},\{"properties":\{"displayName":"Microsoft Managed Control 1582 - Information System Control","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\"\[\"\"\\\"\"]\\},\"then\"\[\"\"\]"
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.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"
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. ", "metadata": [{"version": "1.0.0", "category": "Security Center"}], "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.", "strongType": "location" }}, "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;" }, "allowedValues": [{"High", "Medium", "Low"}], "defaultValue": [{"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;" }, "allowedValues": [{"High", "Medium", "Low"}], "defaultValue": [{"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 Authorizations 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%2Fnamespaces)"}, "strongType": "Microsoft.EventHub/namespaces/eventhubs/authorizationrules", "assignPermissions": true }}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Resources/subscriptions"}, "then": {"effect": "deployIfNotExists", "details": {"type": "Microsoft.Security/automations", "name": "exportToEventHub", "existenceScope": "resourcegroup", "ResourceGroupName": {"parameters": "ResourceGroupName"}], "deploymentScope": "subscription", "roleDefinitionIds": [{"providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd24c"}, "deployment": {"location": "westeurope", "properties": {"mode": "incremental", "template": "$schema": "https://schema.management.azure.com/schemas/2018-05-"}}]}},
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for subscription
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"dataTypeMap":{"Security
recommendations":"Assessments","Security
alerts":"Alerts"},"alertSeverityMap":{"High":"high","Medium":"medium","Low":"low"},"ruleSetsForAssessments
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bles(''recommendationNamesLength''),0),''Microsoft.Security/assessments'',parameters(''recommendationNames'')[m
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),variables(''recommendationNamesLength''))])]","operator":"Contains"},{"propertyJPath":"properties.metadata.sev
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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

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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("exportedDataTypes")][copyIndex("sources")]], "ruleSets": [if(equals(parameters("exportedDataTypes"))[copyIndex("sources")], variables("ruleSetsForAssessmentsObj").ruleSetsForAssessmentsArr, variables("ruleSetsForAlertsObj").ruleSetsForAlertsArr)]}], "actions": ["{"actionType":"EventHub","eventHubResourceId": [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], '/')], "connectionString": [listkeys(parameters("eventHubDetails"),"2017-04-01").primaryConnectionString]]}], "parameters": {"resourceGroupName": [variables("resourceGroupName")], "resourceGroupLocation": [variables("resourceGroupLocation")], "exportedDataTypes": [variables("exportedDataTypes")], "recommendationNames": [variables("recommendationNames")], "recommendationSeverities": [variables("recommendationSeverities")], "alertSeverities": [variables("alertSeverities")], "eventHubDetails": [variables("eventHubDetails")]}], }], "id": "/providers/Microsoft.Authorization/policyDefinitions/cdfcce10-4578-4ecd-9703-530938e4abc8", "type": "Microsoft.Authorization/policyDefinitions", "name": "cdfcc7-9da0-447c-b748-530938e4abcb"}, {"properties": {"displayName": "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": "1.1.0-preview", "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", "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/imagePublisher", "equals": "pivotal"}], {"field": "Microsoft.Compute/imagePublisher", "equals": "pivotal"}, {"field": "Microsoft.Compute/imagePublisher", "equals": "pivotal"}]}}}}}}
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/ce669c31-9103-4552-ae9c-cdef4e03580d"},"name":"ce669c31-9103-4552-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/cf3b3293-667a-445e-a722-fa0b0afca098"},"name":"cf3b3293-667a-445e-a722-fa0b0afca098"},"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/cf3e4836-f19e-47eb-a8cd-c3ca150452c0"},"name":"cf3e4836-f19e-47eb-a8cd-c3ca150452c0"},"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/cf55fc87-48e1-4676-a2f8-d9a8cf993283"},"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 for use in security incidents 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":{"count":{"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.days","equals":365}],"anyOf":["field":"Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled","equals":"true"],"field":"Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled"},"greaterOrEquals":1}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/cf820ca0-f99e-4f3e-
Managed Control 1292 - Information System Backup | Test Restoration Using Sampling

Microsoft implements this Contingency Planning control.

Managed Control 1724 - Error Handling

Microsoft implements this System and Information Integrity control.

Container Registries should not allow unrestricted network access.

Registries should not allow unrestricted network access.

Managed Control 1084 - Publicly Accessible Content

Microsoft implements this Access Control control.

or replace a tag on resource groups.

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Enforce SSL connection should be enabled for PostgreSQL database servers.

This policy audits any PostgreSQL server that is not enforcing SSL connection. Azure Database for PostgreSQL prefers connecting your client applications to the PostgreSQL service 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 applications.

Managed Control 1620 - Denial Of Service Protection

Microsoft implements this System and Communications Protection control.

Managed Control 1409 - Maintenance Tools | Prevent Unauthorized Removal

Microsoft implements this Maintenance control.
Audit Function Apps that are not using custom domains

- **Policy Type**: BuiltIn
- **Mode**: All
- **Description**: Use of custom domains protects a Function app from common attacks such as phishing and other DNS-related attacks.
- **Policy Definition**: d1880188-e51a-4772-b2ab-6f85e8bd27f6
- **Type**: Microsoft.Authorization/policyDefinitions
- **Name**: d1880188-e51a-4772-b2ab-6f85e8bd27f6
- **Properties**: 
  - **Display Name**: [Deprecated]
  - **Description**: Use of custom domains protects a Function app from common attacks such as phishing and other DNS-related attacks.
- **Metadata**: 
  - **Version**: 1.0.0-deprecated
  - **Category**: Security Center
- **Parameters**: 
  - **Effect**: "AuditIfNotExists" (default)
  - **Version**: 1.0.0-

**Microsoft Managed Control 1195 - Configuration Change Control | Automated Document / Notification / Prohibition Of Changes**

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Configuration Management control.
- **Policy Definition**: d1cb47db-b7a1-4c46-814e-aad1c0e84f3c
- **Type**: Microsoft.Authorization/policyDefinitions
- **Name**: d1cb47db-b7a1-4c46-814e-aad1c0e84f3c
- **Properties**: 
  - **Display Name**: Microsoft Managed Control 1195 - Configuration Change Control | Automated Document / Notification / Prohibition Of Changes
  - **Metadata**: 
    - **Version**: 1.0.0.0
    - **Category**: Regulatory Compliance
  - **Policy Rule**: 
    - **If**: 
      - **All of**: 
        - **Field**: type, equals: microsoft.Web/sites
        - **Any of**: 
          - **Field**: kind, equals: functionapp
          - **Field**: kind, equals: functionapp,linux
      - **Then**: 
        - **Effect**: Audit
      - **Version**: 1.0.0.0
      - **Category**: Security Center
  - **Policy Metadata**: 
    - **Description**: Use of custom domains protects a Function app from common attacks such as phishing and other DNS-related attacks.
  - **Version**: 1.0.0-deprecated
  - **Category**: Security Center

**Microsoft Managed Control 1721 - Spam Protection | Central Management**

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this System and Information Integrity control.
- **Policy Definition**: d207aaef-7c4d-4f8c-9dce-4d62dfa3d29a
- **Type**: Microsoft.Authorization/policyDefinitions
- **Name**: d207aaef-7c4d-4f8c-9dce-4d62dfa3d29a
- **Properties**: 
  - **Display Name**: Microsoft Managed Control 1721 - Spam Protection | Central Management
  - **Metadata**: 
    - **Version**: 1.0.0.0
    - **Category**: Regulatory Compliance
  - **Policy Rule**: 
    - **If**: 
      - **All of**: 
        - **Field**: type, equals: microsoft.Web/sites
        - **Any of**: 
          - **Field**: kind, equals: functionapp
          - **Field**: kind, equals: functionapp,linux
      - **Then**: 
        - **Effect**: Audit
      - **Version**: 1.0.0.0
      - **Category**: Security Center
  - **Policy Metadata**: 
    - **Description**: Use of custom domains protects a Function app from common attacks such as phishing and other DNS-related attacks.
  - **Version**: 1.0.0-deprecated
  - **Category**: Security Center

**Microsoft Managed Control 1106 - Audit Events | Reviews And Updates**

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Audit and Accountability control.
- **Policy Definition**: d2b4feae-61ab-423f-a4c5-0e38ac4464d8
- **Type**: Microsoft.Authorization/policyDefinitions
- **Name**: d2b4feae-61ab-423f-a4c5-0e38ac4464d8
- **Properties**: 
  - **Display Name**: Microsoft Managed Control 1106 - Audit Events | Reviews And Updates
  - **Metadata**: 
    - **Version**: 1.0.0.0
    - **Category**: Regulatory Compliance
  - **Policy Rule**: 
    - **If**: 
      - **All of**: 
        - **Field**: type, equals: microsoft.Web/sites
        - **Any of**: 
          - **Field**: kind, equals: functionapp
          - **Field**: kind, equals: functionapp,linux
      - **Then**: 
        - **Effect**: Audit
      - **Version**: 1.0.0.0
      - **Category**: Security Center
  - **Policy Metadata**: 
    - **Description**: Use of custom domains protects a Function app from common attacks such as phishing and other DNS-related attacks.
  - **Version**: 1.0.0-deprecated
  - **Category**: Security Center

**Microsoft Managed Control 1030 - Information Flow Enforcement | Physical / Logical Separation Of Information Flows**

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Access Control control.
- **Policy Definition**: d2b4feae-61ab-423f-a4c5-0e38ac4464d8
- **Type**: Microsoft.Authorization/policyDefinitions
- **Name**: d2b4feae-61ab-423f-a4c5-0e38ac4464d8
- **Properties**: 
  - **Display Name**: Microsoft Managed Control 1030 - Information Flow Enforcement | Physical / Logical Separation Of Information Flows
  - **Metadata**: 
    - **Version**: 1.0.0.0
    - **Category**: Regulatory Compliance
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,"
meters(''vmName''),
''/Microsoft.GuestConfiguration/'',
parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
me":"[parameters(''configurationName'')]","version":"1.*"}}},{"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
me":"[parameters(''configurationName'')]","version":"1.*"}}},{"condition":"[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/d38b4c26-9d2e-47d7-aefe18d859a8706a","type":"Microsoft.Authorization/policyDefinitions","name":"d38b4c26-9d2e-47d7-aefe18d859a8706a"},{"properties":{"displayName":"Long-term
geo-redundant backup should be enabled for Azure SQL
Databases","policyType":"BuiltIn","mode":"Indexed","description":"This
policy audits any Azure SQL Database with long-term geo-redundant backup not
enabled.","metadata":{"version":"1.0.0","category":"SQL"},"parameters":{"effect":{"type":"String","metadata":{"di
splayName":"Effect","description":"Enable
or disable the execution of the
policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}},"policyRule":{"if":
{"field":"type","equals":"Microsoft.Sql/servers/databases"},"then":{"effect":"[parameters(''effect'')]","details":{"typ
e":"Microsoft.Sql/servers/databases/backupLongTermRetentionPolicies","name":"default","existenceCondition":{"a
nyOf":[{"field":"Microsoft.Sql/servers/databases/backupLongTermRetentionPolicies/weeklyRetention","notEquals"
:"PT0S"},{"field":"Microsoft.Sql/servers/databases/backupLongTermRetentionPolicies/monthlyRetention","notEqu
als":"PT0S"},{"field":"Microsoft.Sql/servers/databases/backupLongTermRetentionPolicies/yearlyRetention","notEq
uals":"PT0S"}]}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/d38fc420-0735-4ef3-ac11c806f651a570","type":"Microsoft.Authorization/policyDefinitions","name":"d38fc420-0735-4ef3-ac11c806f651a570"},{"properties":{"displayName":"Microsoft
Managed Control 1641 - Transmission Confidentiality And Integrity | Cryptographic
Or Alternate Physical 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/ACF1641"},"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/d39d4f68-7346-4133-884115318a714a24","type":"Microsoft.Authorization/policyDefinitions","name":"d39d4f68-7346-4133-884115318a714a24"},{"properties":{"displayName":"Microsoft

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Managed Control 1249 - 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/ACF1249"}, "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/3bf4251-0818-42db-950b-af5b525a51c2", "type": "Microsoft.Authorization/policyDefinitions", "name": "d3bf4251-0818-42db-950b-af5b525a51c2"}, {"properties": {"displayName": "Microsoft Managed Control 1249 - Contingency Plan"}}

Managed Control 1562 - Allocation Of Resources, "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/ACF1562"}, "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/d4142013-7964-4163-a313-a900301c2ce5", "type": "Microsoft.Authorization/policyDefinitions", "name": "d4142013-7964-4163-a313-a900301c2ce5"}, {"properties": {"displayName": "Virtual machines should be connected to an approved virtual network"}}

Virtual machines should be connected to an approved virtual network"}

This policy audits any virtual machine connected to a virtual network that is not approved.

Managed Control 1383 - Incident Response Plan, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1383"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Network/networkInterfaces"}, {"not": [{"field": "Microsoft.Network/networkInterfaces/ipconfigurations[*].subnet.id", "like": "+[concat(parameters('virtualNetworkId'),""/""=*)]]", "then": {"effect": "parameters('effect')"}}, "/providers/Microsoft.Authorization/policyDefinitions/d1674b5a-506c-48b6-8eb1-83cb814baa3", "type": "Microsoft.Authorization/policyDefinitions", "name": "d1674b5a-506c-48b6-8eb1-83cb814baa3"}, {"properties": {"displayName": "Microsoft Managed Control 1383 - Incident Response Plan"}}

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/94558451-e16a-4d2d-a066-fee12af82bb9", "type": "Microsoft.Authorization/policyDefinitions", "name": "d94558451-e16a-4d2d-a066-fee12af82bb9"}, {"properties": {"displayName": "Microsoft Managed Control 1112 - Response To Audit Processing Failures"}}
Diagnostic Settings for Data Lake Analytics to Log Analytics workspace

- **Policy Type**: BuiltIn
- **Mode**: Indexed
- **Description**: Deploys the diagnostic settings for Data Lake Analytics to stream to a regional Log Analytics workspace when any Data Lake Analytics which is missing this diagnostic settings is created or updated.

**Metadata**: 
- **Version**: 1.0.0
- **Category**: Monitoring
- **DisplayName**: Effect
- **Description**: Enable or disable the execution of the policy

**Allowed Values**: DeployIfNotExists, Disabled

**Profile Name**: setbypolicy_logAnalytics

**Log Analytics Workspace**: 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

**Metrics Enabled**: True or False

**Logs Enabled**: True or False

**Rule Engine**

- **Field**: type
- **Equals**: Microsoft.DataLakeAnalytics/accounts
- **Effect**: [parameters('effect')]
- **Details**:
  - **Type**: Microsoft.Insights/diagnosticSettings
  - **Name**: [parameters(profileName)]
  - **Existence Condition**:
    - **Field**: Microsoft.Insights/diagnosticSettings/logs.enabled
    - **Equals**: [parameters(logsEnabled)]
    - **Field**: Microsoft.Insights/diagnosticSettings/metrics.enabled
    - **Equals**: [parameters(metricsEnabled)]

**Deployment Template**

- **Mode**: Incremental
- **Template**:

```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.DataLakeAnalytics/accounts/providers/diagnosticSettings", "apiVersion": "2017-05-01-preview", "name": [concat(parameters('resourceName'), "." )], "dependsOn": [], "properties": { "workspaceId": [parameters('logAnalytics')], "metrics": ["category": AllMetrics, "enabled": [parameters('metricsEnabled')]], "retentionPolicy": ["enabled": false, "days": 0], "logs": ["category": Audit, "enabled": [parameters('logsEnabled')]], "category": Requests, "enabled": [parameters('logsEnabled')] } ]
    }
}
```

```
```
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": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true" }, "then": "[parameters(''effect'')]", "id": "/providers/Microsoft.Authorization/policyDefinitions/d56a5a7c-72d7-42bc-8ceb-3baf4c0eae03", "type": "Microsoft.Authorization/policyDefinitions", "name": "d56a5a7c-72d7-42bc-8ceb-3baf4c0eae03" }, {"properties": {"displayName": "Microsoft 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/ACF1667" }, "policyRule": {"if": {"allOf": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true" }, "then": "[parameters(''effect'')]", "id": "/providers/Microsoft.Authorization/policyDefinitions/d61880dc-6e38-4f2a-a30c-3406a98f8220", "type": "Microsoft.Authorization/policyDefinitions", "name": "d61880dc-6e38-4f2a-a30c-3406a98f8220" }, {"properties": {"displayName": "Microsoft 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/ACF1150" }, "policyRule": {"if": {"allOf": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true" }, "then": "[parameters(''effect'')]", "id": "/providers/Microsoft.Authorization/policyDefinitions/d630429d-e763-40b1-8fba-d20ba7314af8", "type": "Microsoft.Authorization/policyDefinitions", "name": "d630429d-e763-40b1-8fba-d20ba7314af8" }, {"properties": {"displayName": "Microsoft 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": {"allOf": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true" }, "then": "[parameters(''effect'')]", "id": "/providers/Microsoft.Authorization/policyDefinitions/d63edbf4-c612-454d-b47d-191a724fcbf0", "type": "Microsoft.Authorization/policyDefinitions", "name": "d63edbf4-c612-454d-b47d-191a724fcbf0" }, {"properties": {"displayName": "Microsoft Event 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": "1.0.0", "category": "Network" }, "parameters": {"effect": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy" }, "allowedValues": ["AuditIfNotExists", "Disabled" ], "defaultValue": "AuditIfNotExists" }, "policyRule": {"if": {"field": "type", "equals": "Microsoft.EventHub/namespaces" }, "then": {"effect": "parameters(''effect'')" }, "details": {"type": "Microsoft.EventHub/namespaces/virtualNetworkRules", "existenceCondition": {"field": "Microsoft.EventHub/namespaces/virtualNetworkRules/virtualNetworkSubnetId", "exists": "true" }, "id": "/providers/Microsoft.Authorization/policyDefinitions/d63edbf4-c612-454d-b47d-191a724fcbf0", "type": "Microsoft.Authorization/policyDefinitions", "name": "d63edbf4-c612-454d-b47d-191a724fcbf0" }, {"properties": {"displayName": "Microsoft Open Source Used In SDWan 20.9.1 10836"}}}

Log Analytics agent should be installed on your Windows Azure Arc machines, policyType: BuiltIn, mode: Indexed, description: This policy audits Windows Azure Arc machines if the Log Analytics agent is not installed.

Managed Control 1473 - Emergency Power, 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/ACF1473}, 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/d69b1763-b96d-40b8-a2d9-ca31e9fd0d3e, type: Microsoft.Authorization/policyDefinitions, name: d69b1763-b96d-40b8-a2d9-ca31e9fd0d3e, properties: {display Name: Microsoft


Managed Control 1350 - Identification And Authentication (Non-Org. Users) Use Of FICAM-Issued Profiles, 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/ACF1350}, policyRule: 

Open Source Used In SDWan 20.9.1 10837
show audit results from Windows Server VMs on which Windows Serial Console is not enabled", "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 Server virtual machines on which Windows Serial Console is not enabled.

Managed Control 1016 - Account Management | Automated Audit Actions", "policyType": "Static", "mode": "Indexed", "description": "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": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}}}
Open Source Used In SDWan

Managed Control 1488 - Alternate Work Site

Microsoft implements this Physical and Environmental Protection control.

Compliance

Microsoft Managed Control 1488 - Alternate Work Site

Policy Type: 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": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": false, "equals": true ] } ], "then": { "effect": "audit" } }, id: "/providers/Microsoft.Authorization/policyDefinitions/d8ef30eb-a44f-47af-8524-ac19a36d41d2" }.

Microsoft Authorized Policy Definitions

Managed Control 1577 - Acquisition Process | Continuous Monitoring Plan

Policy Type: Static, mode: Indexed, description: Microsoft implements this System and Services Acquisition control.

Compliance

Microsoft Managed Control 1577 - Acquisition Process | Continuous Monitoring Plan

Policy Type: Static, mode: Indexed, description: Microsoft implements this System and Services Acquisition control.

Compliance

Public network access should be disabled for MySQL servers

Policy Type: 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.

Managed Control 1271 - Alternate Storage Site

Accessibility

Policy Type: Static, mode: Indexed, description: Microsoft implements this Contingency Planning control.

Compliance

Microsoft Managed Control 1271 - Alternate Storage Site

Termination

Policy Type: Static, mode: Indexed, description: Microsoft implements this Personnel Security control.
Deploy Diagnostic Settings for Batch Account to Event Hub, "policyType": "BuiltIn", "mode": "Indexed", "description": "Deploys 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.", "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 Location", "description": "The location the Event Hub resides in. Only Batch Accounts 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": "False"}}

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Open Source Used In SDWan 20.9.1 10840
Managed Control 1277 - Alternate Processing Site | Priority Of Service

Managed Control 1439 - Media Sanitization

Managed Control 1264 - Contingency Plan Testing | Coordinate With Related Plans

[Deprecated]: Audit Web Applications that are not using custom domains

[Preview]: Audit Web Applications that are not using custom domains

Open Source Used In SDWan 20.9.1 10842
shows 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 auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Settings - Account Policies". For more information on guest configuration policies, please visit https://aka.ms/gcpol."
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.

Policy parameters:
- **RecoveryConsoleAllowFloppyCopyAndAccessToAllDrivesAndAllFolders**: Specifies whether to make the Recovery Console SET command available, which allows setting of recovery console environment variables.

Policy properties:
- **displayName**: 
- **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 - 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."
- **category**: "Guest Configuration"
- **requiredProviders**: 
- **metadata**: 
- **version**: "1.1.0-preview"
Open Source Used In SDWan

Managed Control 1689 - Information System Monitoring

Deploy Dependency agent to hybrid Linux Azure Arc machines

"policyDefinitionId": "Microsoft.Authorization/policyDefinitions/de901f2f-a01a-4456-97f0-33da7966172",
"policyDefinition": {
  "displayName": "Deploy Dependency agent to hybrid Linux Azure Arc machines if the agent isn't installed.",
  "metadata": {
    "version": "1.0.0-preview",
    "category": "Monitoring",
    "description": "This policy deploys the Dependency agent to Linux Azure Arc machines if the agent isn't installed.",
    "parameters": {
      "vmName": "<VM Name>",
      "location": "<Location>",
      "extensionName": "DependencyAgent",
      "type": "DependencyAgentLinux",
      "version": "1.0.0-preview"
    }
  },
  "policyRule": {
    "if": {
      "allOf": [
        {
          "field": "type",
          "in": ["Microsoft.HybridCompute/machines"]
        },
        {
          "field": "Microsoft.HybridCompute/imageOffer",
          "like": "linux*"
        }
      ]
    },
    "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": "DependencyAgentLinux"
            },
            {
              "field": "Microsoft.HybridCompute/machines/extensions/publisher",
              "equals": "Microsoft.Azure.Monitoring.DependencyAgent"
            },
            {
              "field": "Microsoft.HybridCompute/machines/extensions/provisioningState",
              "equals": "Succeeded"
            }
          ]
        },
        "deployment": {
          "properties": {
            "mode": "incremental",
            "template": "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
            "contentVersion": "1.0.0.0",
            "parameters": {
              "vmName": "<VM Name>",
              "extensionName": "DependencyAgent",
              "extensionPublisher": "Microsoft.Azure.Monitoring.DependencyAgent",
              "extensionType": "DependencyAgentLinux",
              "location": "<Location>",
              "publisher": "Microsoft.Azure.Monitoring.DependencyAgent"
            }
          }
        }
      }
    }
  }
}
Managed Control 1528 - Access

Agreements, policyType: "Static", mode: "Indexed", description: "Microsoft implements this Personnel Security control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1528" }, "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/deacecc0-9f84-44d2-bb82-46f32d766d43", "type": "Microsoft.Authorization/policyDefinitions", "name": "deacecc0-9f84-44d2-bb82-46f32d766d43" }, {"properties": {"displayName": "Microsoft Managed Control 1528 - Access Agreements"}},

"id": "/providers/Microsoft.Authorization/policyDefinitions/deb9797c-22f8-40e8-b342-a84003c924e6", "type": "Microsoft.Authorization/policyDefinitions", "name": "deb9797c-22f8-40e8-b342-a84003c924e6" }, {"properties": {"displayName": "Microsoft Managed Control 1673 - Flaw Remediation | Automated Flaw Remediation Status", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1673" }, "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/dfbd9a64-6114-48de-a47d-90574dc2e489", "type": "Microsoft.Authorization/policyDefinitions", "name": "dfbd9a64-6114-48de-a47d-90574dc2e489" }, {"properties": {"displayName": "Microsoft Managed Control 1673 - Flaw Remediation Status", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1673" }, "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/e01598e8-6538-41ed-95e8-8b29746cd697", "type": "Microsoft.Authorization/policyDefinitions", "name": "e01598e8-6538-41ed-95e8-8b29746cd697" }, {"properties": {"displayName": "Cosmos DB should use a virtual network service endpoint", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any Cosmos DB not configured to use a virtual network service endpoint. For more details, visit https://aka.ms/cosmosdbvirtualnetwork."},

"id": "/providers/Microsoft.Authorization/policyDefinitions/8b29746cd697", "type": "Microsoft.Authorization/policyDefinitions", "name": "8b29746cd697" }, {"properties": {"displayName": "Cosmos DB should use a virtual network service endpoint", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any Cosmos DB not configured to use a virtual network service endpoint."},

"id": "/providers/Microsoft.Authorization/policyDefinitions/8b29746cd697", "type": "Microsoft.Authorization/policyDefinitions", "name": "8b29746cd697" }, {"properties": {"displayName": "Cosmos DB should use a virtual network service endpoint", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any Cosmos DB not configured to use a virtual network service endpoint."},

"id": "/providers/Microsoft.Authorization/policyDefinitions/8b29746cd697", "type": "Microsoft.Authorization/policyDefinitions", "name": "8b29746cd697" }, {"properties": {"displayName": "Cosmos DB should use a virtual network service endpoint", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any Cosmos DB not configured to use a virtual network service endpoint."},

"id": "/providers/Microsoft.Authorization/policyDefinitions/8b29746cd697", "type": "Microsoft.Authorization/policyDefinitions", "name": "8b29746cd697" }, {"properties": {"displayName": "Cosmos DB should use a virtual network service endpoint", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any Cosmos DB not configured to use a virtual network service endpoint."},

"id": "/providers/Microsoft.Authorization/policyDefinitions/8b29746cd697", "type": "Microsoft.Authorization/policyDefinitions", "name": "8b29746cd697" },
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: {"allOf": [{"field": "type", "equals": "/" }, 
{"field": "Microsoft.DocumentDB/databaseAccounts/*", "exists": false } ], "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/e0de232d-02a0-4652-872d-88af84ab5e91", "type": "Microsoft.Authorization/policyDefinitions", "name": "e0de232d-02a0-4652-872d-88af84ab5e91", "properties": 
{"displayName": "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": "/" }, 
{"field": "Microsoft.Compute/virtualMachines", "anyOf": [ 
{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer", "field": "Microsoft.Compute/imageSKU", "notLike": "2008*" } ], 
{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftSQLServer", "field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*" } ], 
{"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/imagePublisher", "equals": "virtualMachines/osProfile.windowsConfiguration", "exists": true } ],  
{"field": "Microsoft.Compute/virtualMachine"} ]} ]}
Open Source Used In SDWan 20.9.1
implements this System and Information Integrity
control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1714"}, "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/e12494fa-b81e-4080-af71-7dbacc2dad0ec", "type":"Microsoft.Authorization/policyDefinitions", "name":"e12494fa-b81e-4080-af71-7dbacc2dad0ec"}, {"properties": {"displayName": "Microsoft
Managed Control 1686 - 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/ACF1686"}, "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/e17085c5-0be8-4423-b39b-a523d140265", "type":"Microsoft.Authorization/policyDefinitions", "name":"e17085c5-0be8-4423-b39b-a523d140265"}, {"properties": {"displayName": "Microsoft
Managed Control 1722 - Spam Protection | Automatic
Updates", "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/ACF1722"}, "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/e1da06bd-25b6-4127-a301-c313d6873fff", "type":"Microsoft.Authorization/policyDefinitions", "name":"e1da06bd-25b6-4127-a301-c313d6873fff"}, {"properties": {"displayName": "Vulnerabilities
in security configuration on your machines should be
remediated", "policyType": "BuiltIn", "mode": "All", "description": "Servers
which do not satisfy the configured baseline 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
disabled 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": "osVulnerabilities", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e1e5fd5d-3e4c-4ce1-8661-7d1873ae6b15", "type": "Microsoft.Authorization/policyDefinitions", "name": "e1e5fd5d-3e4c-4ce1-8661-7d1873ae6b15"}, {"properties": {"displayName": "Microsoft
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"]}, {"value": "false", "equals": "true"}], "then":{"effect": "audit"}}}, id":"/providers/Microsoft.Authorization/policyDefinitions/e1ff6d62-a55c-41ab-90ba-
Managed Control 1276 - Contingency Planning | Accessibility

Managed Control 1560 - System And Services Acquisition Policy And Procedures

Ensure that "HTTP Version" is the latest, if used to run the Function app.

Audit Dependency agent deployment in virtual machine scale sets - VM Image (OS) unlisted.
List of VM images that have supported Linux OS to add to scope","description":"Example
value:
''/subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/Contos
oStdImage''"},"defaultValue":[]}},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtual
MachineScaleSets"},{"not":{"anyOf":[{"field":"Microsoft.Compute/imageId","in":"[parameters(''listOfImageIdToI
nclude_windows'')]"},{"field":"Microsoft.Compute/imageId","in":"[parameters(''listOfImageIdToInclude_linux'')]"}
,{"anyOf":[{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"field":
"Microsoft.Compute/imageOffer","equals":"WindowsServer"},{"field":"Microsoft.Compute/imageSKU","in":["200
Microsoft.Compute/imageOffer","equals":"WindowsServerSemiAnnual"},{"field":"Microsoft.Compute/imageSKU
","in":["Datacenter-Core-1709-smalldisk","Datacenter-Core-1709-with-Containers-smalldisk","Datacenter-Core1803-with-Containerssmalldisk"]}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServerHPCPac
k"},{"field":"Microsoft.Compute/imageOffer","equals":"WindowsServerHPCPack"}]},{"allOf":[{"field":"Microsof
t.Compute/imagePublisher","equals":"MicrosoftSQLServer"},{"anyOf":[{"field":"Microsoft.Compute/imageOffer",
osoft.Compute/imageOffer","equals":"MLServerWS2016"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftVisualStudio"},{"field":"
Microsoft.Compute/imageOffer","in":["VisualStudio","Windows"]}]},{"allOf":[{"field":"Microsoft.Compute/image
Publisher","equals":"MicrosoftDynamicsAX"},{"field":"Microsoft.Compute/imageOffer","equals":"Dynamics"},{"f
ield":"Microsoft.Compute/imageSKU","equals":"Pre-Req-AX7-OneboxU8"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"microsoftads"},{"field":"Microsoft.Compute/imageOffer","equals":"windows-data-sciencevm"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsDesktop"},{"field":"
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Multi-Factor Authentication (MFA) should be enabled for all subscription accounts with read privileges to prevent a breach of accounts or resources.

**Policy Details**

**Policy Name:** EnableMFAForReadPermissions

**Description:**
- Multi-Factor Authentication (MFA) should be enabled for all subscription accounts with read permissions on your subscription.
- This policy audits any network security rule that allows RDP access from the Internet.
- The policy checks if the destination port range includes 3389, which is typically used for RDP.
- If a network security rule is found that allows RDP access from the Internet and includes port 3389, the policy will generate a compliance result.

**Policy Parameters**

- **Effect**: The policy has two allowed values: Audit or Disabled.
- The default value is Audit if Not Exists.

**Policy Rule**

- **If**: The policy applies when the resource type is Microsoft.Resources/subscriptions.
- **Then**: The effect is determined by the value of the Effect parameter. If Audit is chosen, the policy generates a compliance result. If Disabled, the policy is not executed.
- **Details**: The policy checks if the destination port range includes 3389. If it does not, a compliance result is generated.

**Policy ID**: e3576e28-8b17-4677-84c3-db2990658d64

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**RDP access from the Internet should be blocked**

**Policy Details**

**Policy Name:** BlockRDPAccess

**Description:**
- This policy audits any network security rule that allows RDP access from the Internet.
- The policy checks if the destination port range includes port 3389.

**Policy Parameters**

- **Effect**: The policy has two allowed values: Audit or Disabled.
- The default value is Audit.

**Policy Rule**

- **If**: The policy applies when the resource type is Microsoft.Network/networkSecurityGroups/securityRules.
- **Then**: The effect is determined by the value of the Effect parameter. If Audit is chosen, the policy generates a compliance result. If Disabled, the policy is not executed.
- **Details**: The policy checks if the destination port range includes port 3389.

**Policy ID**: e3576e28-8b17-4677-84c3-db2990658d64

---
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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
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Options - Shutdown''. For more information on Guest Configuration policies,
please visit https://aka.ms/gcpol","metadata":{"version":"1.0.0-preview","category":"Guest
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Deploy prerequisites to audit Windows VMs configurations in ''Security Settings
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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

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information on Guest Configuration policies, please visit https://aka.ms/gcpol

- **EnforcePasswordHistory**: Specifies limits on password reuse
  - how many times a new password must be created for a user account before the password can be repeated.)

- **MaximumPasswordAge**: Specifies the maximum number of days that may elapse before a user account password must be changed. The format of the value is two integers separated by a comma, denoting an inclusive range.

- **MinimumPasswordAge**: Specifies the minimum number of days that must elapse before a user account password can be changed.

- **MinimumPasswordLength**: Specifies the minimum number of characters that a user account password may contain.

- **PasswordMustMeetComplexityRequirements**: Specifies whether a user account password must be complex. If required, a complex password must not contain part of the user’s account name or full name; be at least 6 characters long; contain a mix of uppercase, lowercase, number, and non-alphabetic characters.

- **PasswordMustMeetComplexityRequirements
description**: Specifies whether a user account password must be complex. If required, a complex password must not contain part of the user’s account name or full name; be at least 6 characters long; contain a mix of uppercase, lowercase, number, and non-alphabetic characters.
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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.

Accounts: Guest account status. "Specifies whether the local Guest account is disabled.",&quot;defaultValue":"0\}]."policyRule":{"if":{"anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyOf":[]}]."anyO
Audit Web Applications that are not using latest supported Node.js Framework

"type"": "Microsoft.Authorization/policyDefinitions", "name": "e67687e8-08d5-4e7f-8226-5b4753bba008", "properties": "displayName": "Microsoft 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/e6e41554-86b5-4537-9f7f-4fc41ad1640", "type": "Microsoft.Authorization/policyDefinitions", "name": "e6e41554-86b5-4537-9f7f-4fc41ad1640", "properties": {"displayName": "Subnets should be associated with a Network Security Group", "policyType": "BuiltIn", "mode": "All", "description": "Protect your subnet from potential threats by restricting access to it with a Network Security Group (NSG). NSGs contain a list of Access Control List (ACL) rules that allow or deny network traffic to your subnet.", "metadata": {"version": "2.0.0", "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.Network/virtualNetworks/subnets"}, "then": {"effect": "parameters(effect)"}, "details": {"type": "Microsoft.Security/complianceResults", "name": "networkSecurityGroupsOnSubnets", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["NotApplicable", "OffByPolicy", "Healthy"]}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e71308d3-144b-4262-b144-efdc3c90517", "type": "Microsoft.Authorization/policyDefinitions", "name": "e71308d3-144b-4262-b144-efdc3c90517", "properties": {"displayName": "Microsoft Managed Control 1567 - System Development Lifecycle 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/e72edbf6-aa61-436d-a227-0f32b77194b3", "type": "Microsoft.Authorization/policyDefinitions", "name": "e72edbf6-aa61-436d-a227-0f32b77194b3", "properties": {"displayName": "Microsoft Managed Control 1311 - 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/ACF1311" }, "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-4ea3-9ece-9e567d1f3c6", "type": "Microsoft.Authorization/policyDefinitions", "name": "e7568697-0c9e-4ea3-9ece-9e567d1f3c6", "properties": {"displayName": "Advanced Threat Protection types should be set to "All" in SQL server Advanced Data Security settings", "policyType": "BuiltIn", "mode": "Indexed", "description": "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.", "metadata": {"version": "1.0.0", "category": "SQL"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable"}}}
or disable the execution of the policy.

Audit Web Sockets state for a Web Application

Audit Web Sockets protocol is vulnerable to different types of security threats. Use of Web Sockets within a web application must be carefully reviewed.
Managed Control 1169 - Continuous Monitoring | Trend

Open Source Used In SDWan 20.9.1

"Healthy"

"Microsoft Managed Control 1169 - Continuous Monitoring | Trend"

Analyzes, "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/e797f851-8be7-4c40-bb56-2e3395215b0e"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "e797f851-8be7-4c40-bb56-2e3395215b0e"}, {"properties": {"displayName": "Microsoft Managed Control 1169 - Continuous Monitoring | Trend"}}}}}, id": "/providers/Microsoft.Authorization/policyDefinitions/e7ba2cb3-5675-4468-8b50-8486bddd998a5"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "e7ba2cb3-5675-4468-8b50-8486bddd998a5"}, {"properties": {"displayName": "Enforce 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", "equal": "Microsoft.DBforMySQL/servers"}, {"field": "Microsoft.DBforMySQL/servers/sslEnforcement", "exists": true}, {"field": "Microsoft.DBforMySQL/servers/sslEnforcement", "notEquals": "Enabled"}}, "then": {"effect": ["parameters(''effect'')"]}, 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.", "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", "Microsoft.Compute/virtualMachineScaleSets"], "then": {"effect": ["parameters(''effect'')"]}, "details": {"type": "Microsoft.Security..."}}}}}}}},
Diagnostic Settings for Data Lake Storage Gen1 to Event Hub,

- **Policy Type**: BuiltIn
- **Mode**: Indexed
- **Description**: Deploys diagnostic settings for Data Lake Storage Gen1 to stream to a regional Event Hub when any Data Lake Storage Gen1 which is missing this diagnostic settings is created or updated.

Metadata:
- **Version**: 2.0.0
- **Category**: Monitoring
- **DisplayName**: Effect
- **Description**: Enable or disable the execution of the policy.
- **Allowed Values**: [DeployIfNotExists, Disabled]
- **Default Value**: DeployIfNotExists

- **Profile Name**: setbypolicy_eventHub
- **Event Hub Location**: The location the Event Hub resides in. Only Data Lake Storage in this location will be linked to this Event Hub.

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**: The Event Hub authorization rule id
- **Log Enabled**: Whether to enable logs stream to the Event Hub - True or False
- **Metrics Enabled**: Whether to enable metrics stream to the Event Hub - True or False

**Deployment Template**:
```json
"templateVersion": "1.0.0.0",
"parameters": {
  "resourceName": { "type": "string" },
  "location": { "type": "string" },
  "eventHubRuleId": { "type": "string" },
  "metricsEnabled": { "type": "string" },
  "logsEnabled": { "type": "string" },
  "profileName": { "type": "string" }
},
"variables": {
  "accountName": { "type": "string" },
  "location": { "type": "string" },
  "eventHubNamespace": { "type": "string" },
  "eventHubLocation": { "type": "string" },
  "metricsEnabled": { "type": "string" },
  "logsEnabled": { "type": "string" }
},
"resources": [{
  "type": "Microsoft.DataLakeStore/accounts/providers/diagnosticSettings",
  "apiVersion": "2017-05-01",
  "name": { "concat": [parameters("resourceName"), "/eventHubRules/" , variables("profileName") ] },
  "location": variables("location"),
  "metricsEnabled": variables("metricsEnabled"),
  "logsEnabled": variables("logsEnabled"),
  "profileName": variables("profileName")
}]
```

**Role Definitions**:
- `/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd2c4e`
- `/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd2c4e`
- `/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd2c4e`
- `/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd2c4e`
- `/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd2c4e`
- `/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd2c4e`
- `/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd2c4e`
- `/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd2c4e`
parameters("profileName")", "location": [parameters("location")], "dependsOn": []}, "properties": {"eventHubAuthorizationRuleId": [parameters("eventHubRuleId")], "metrics": [{"category": "AllMetrics", "enabled": [parameters("metricsEnabled")], "retentionPolicy": {"enabled": false, "days": 0}}, "logs": [{"category": "Audit", "enabled": [parameters("logsEnabled")]}]], "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/e8d096bc-85de-4c5f-8cfe-857bd1b9d62d", "type": "Microsoft.Authorization/policyDefinitions", "name": "e8d096bc-85de-4c5f-8cfe-857bd1b9d62d"}, "properties": {"displayName": "Container Registries should use private links", "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit Container Registries that do not have at least one approved private endpoint connection. Clients in a virtual network can securely access resources that have private endpoint connections through private links. For more information, visit: https://aka.ms/acr/private-link.", "metadata": {"version": "1.0.0", "category": "Container Registry"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": {"allOf": ["Microsoft.ContainerRegistry/registries", "count": [field("Microsoft.ContainerRegistry/registries/privateEndpointConnections[]"), "where": {"field": "Microsoft.ContainerRegistry/registries/privateEndpointConnections[*].privateLinkServiceConnectionState.status", "equals": "Approved"}], "less": 1}], "then": {"effect": [parameters("effect")], id: "/providers/Microsoft.Authorization/policyDefinitions/e8eef0a8-67cf-4eb4-9386-14b0e78733d4", "type": "Microsoft.Authorization/policyDefinitions", "name": "e8eef0a8-67cf-4eb4-9386-14b0e78733d4"}, "properties": {"displayName": "Microsoft Managed Control 1626 - 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/ACF1626"}, "policyRule": {"if": {"allOf": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups[]"], "where": {"field": "Microsoft.Resources/subscriptions[resourceGroups[]].value", "equals": "true"}], "then": {"effect": "audit"}, id: "/providers/Microsoft.Authorization/policyDefinitions/e8f6bddd-6d67-439a-88d4-c5fe39a79341", "type": "Microsoft.Authorization/policyDefinitions", "name": "e8f6bddd-6d67-439a-88d4-c5fe39a79341"}, "properties": {"displayName": "Microsoft Managed Control 1502 - Rules Of Behavior | Social Media And Networking Restrictions", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1502"}, "policyRule": {"if": {"allOf": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups[]"], "where": {"field": "Microsoft.Resources/subscriptions[resourceGroups[]].value", "equals": "true"}], "then": {"effect": "audit"}, id: "/providers/Microsoft.Authorization/policyDefinitions/e901375c-8f01-4ac8-9183-d5312f47fe63", "type": "Microsoft.Authorization/policyDefinitions", "name": "e901375c-8f01-4ac8-9183-d5312f47fe63"}, "properties": {"displayName": "Microsoft Managed Control 1723 - Information Input Validation", "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
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/subscriptionGroups"]
}, {"value": false, "equals": true}],
"then": {
"effect": "audit" }
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e91927a0-ac1d-44a0-95f8-5185f9dce9f" }, "properties": {
"displayName": "Microsoft Managed Control 1200 - Security Impact Analysis"
},

Managed Control 1487 - 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/ACF1487" }, "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/e98fe9d7-2ed3-4f8-93b7-24dca69783ff" }, "properties": {
"displayName": "Microsoft Managed Control 1487 - Alternate Work Site"
},

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": {
"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/e9c3371d-c30c-4f58-abd9-30b8a8199571" }, "properties": {
"displayName": "Microsoft Managed Control 1363 - Incident Handling | Automated Incident Handling Processes"
},

Managed Control 1364 - Inherit a tag from the resource group if missing, "policyType": "BuiltIn", "mode": "Indexed", "description": "Adds a tag from the resource group if missing", "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-059f1f0f19e" }, "properties": {
"displayName": "Microsoft Managed Control 1364 - Inherit a tag from the resource group if missing"
}

Open Source Used in SDWan 20.9.1 10870
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.

```
"policyRule": {
    "if": {
        "allOf": [{
            "field": "[concat('tags[')",
            parameters("tagName")
        },
        "exists": false,
        "value": [resourceGroup().tags[parameters("tagName")]]
        ],
        "notEquals": ""
    },
    "then": {
        "effect": "modify",
        "details": {
            "roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd24c"],
            "operations": [{
                "operation": "add",
                "field": [concat('tags['),
                parameters("tagName")
            }
        }
    }
}
```

This policy audits any Key Vault not configured to use a virtual network service endpoint.

```
"policyRule": {
    "if": {
        "allOf": [{
            "field": "type",
            "in": ["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")]
        }
    }
}
```

Managed Control 1422 - Maintenance Personnel

```
"policyRule": {
    "if": {
        "allOf": [{
            "field": "type",
            "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
            "value": "false",
            "equals": "true"
        },
        "then": {
            "effect": "audit"
        }
    }
}
```

Managed Control 1542 - Risk Assessment

```
"policyRule": {
    "if": {
        "allOf": [{
            "field": "type",
            "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
            "value": "false",
            "equals": "true"
        },
        "then": {
            "effect": "audit"
        }
    }
}
```

Function app has "Client Certificates (Incoming client certificates)" set to "On".

```
"policyRule": {
    "if": {
        "allOf": [{
            "field": "type",
            "in": ["Microsoft.Authorization/policyDefinitions", "name": "eab340d0-3d55-4826-a0e5-fee0eb0131d"],
            "exists": false,
            "value": "false",
            "equals": "true"
        },
        "then": {
            "effect": "audit"
        }
    }
}
```

Open Source Used In SDWan 20.9.1 10871
that have a valid certificate will be able to reach the app.

```json
"parameters": {"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*" }, { "field": "Microsoft.Web/sites/clientCertEnabled", "equals": "false" } ] }, "then": { "effect": [ "parameters("effect")" ] } },
"id": "/providers/Microsoft.Authorization/policyDefinitions/eaebaea7-8013-4ceb-9d14-7eb32271373c",
"name": "eaebae7-8013-4ceb-9d14-7eb32271373c" },
"properties": {"displayName":"Microsoft Managed Control 1064 - Remote Access | Privileged Commands / Access"}
```

```json
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control, "metadata": {"version": "1.0.0","category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1064" },
"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/eb4d9508-cbf0-4a3c-bb5c-6c95b15f3fbd",
"name": "eb4d9508-cbf0-4a3c-bb5c-6c95b15f3fbd" },
"properties": {"displayName":"Microsoft Managed Control 1321 - Authenticator Management"}
```

```json
"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/ACF1321" },
"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/eb627cc6-3a9d-46b5-96b7-5fca49178a37",
"name": "eb627cc6-3a9d-46b5-96b7-5fca49178a37" },
"properties": {"displayName":"Log check points should be enabled for PostgreSQL database servers"}
```

```json
"policyType": "BuiltIn", "mode": "Indexed", "description": "This policy helps audit any PostgreSQL databases in your environment without log_checkpoints setting enabled. 
```

```json
"parameters": {"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/configurations", "name": "log_checkpoints", "existenceCondition": { "field": "Microsoft.DBforPostgreSQL/servers/configurations/value", "equals": "ON" } } },
"id": "/providers/Microsoft.Authorization/policyDefinitions/eb6f77b9-bd53-4e35-a23d-7f65d5f0e43d",
"name": "eb6f77b9-bd53-4e35-a23d-7f65d5f0e43d" },
"properties": {"displayName":"Log connections should be enabled for PostgreSQL database servers"}
```

```json
"policyType": "BuiltIn", "mode": "Indexed", "description": "This policy helps audit any PostgreSQL databases in your environment without log_connections setting enabled. 
```

```json
"parameters": {"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/configurations", "name": "log_connections", "existenceCondition": { "field": "Microsoft.DBforPostgreSQL/servers/configurations/value", "equals": "ON" } } },
"id": "/providers/Microsoft.Authorization/policyDefinitions/eb6f77b9-bd53-4e35-a23d-7f65d5f0e43d",
"name": "eb6f77b9-bd53-4e35-a23d-7f65d5f0e43d" },
"properties": {"displayName":"Log connections should be enabled for PostgreSQL database servers"}
```
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/configurations", "name": "log_connections", "existenceCondition": { "field": "Microsoft.DBforPostgreSQL/servers/configurations/value", "equals": "ON" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/eb6f77b9-bd53-4e35-a23d-7f65d5f0e442", "type": "Microsoft.Authorization/policyDefinitions", "name": "eb6f77b9-bd53-4e35-a23d-7f65d5f0e442" }, "properties": { "displayName": "Disconnections should be logged for PostgreSQL database servers." , "policyType": "Builtin", "mode": "Indexed", "description": "This policy helps audit any PostgreSQL databases in your environment without log_disconnections enabled." , "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" } }, "policyRule": { "if": { "field": "type", "equals": "Microsoft.DBforPostgreSQL/servers" }, "then": { "effect": ["parameters("effect")"], "details": { "type": "Microsoft.DBforPostgreSQL/servers/configurations", "name": "log_disconnections", "existenceCondition": { "field": "Microsoft.DBforPostgreSQL/servers/configurations/value", "equals": "ON" } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/eb6f77b9-bd53-4e35-a23d-7f65d5f0e446", "type": "Microsoft.Authorization/policyDefinitions", "name": "eb6f77b9-bd53-4e35-a23d-7f65d5f0e446" }, "properties": { "displayName": "Log duration should be enabled for PostgreSQL database servers." , "policyType": "Builtin", "mode": "Indexed", "description": "This policy helps audit any PostgreSQL databases in your environment without log_duration setting enabled." , "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" } }, "policyRule": { "if": { "field": "type", "equals": "Microsoft.DBforPostgreSQL/servers" }, "then": { "effect": ["parameters("effect")"], "details": { "type": "Microsoft.DBforPostgreSQL/servers/configurations", "name": "log_duration", "existenceCondition": { "field": "Microsoft.DBforPostgreSQL/servers/configurations/value", "equals": "ON" } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/eb6f77b9-bd53-4e35-a23d-7f65d5f0e8f3", "type": "Microsoft.Authorization/policyDefinitions", "name": "eb6f77b9-bd53-4e35-a23d-7f65d5f0e8f3" }, "properties": { "displayName": "Deprecated accounts with owner permissions should be removed from your subscription" , "policyType": "Builtin", "mode": "All", "description": "Deprecated accounts with owner permissions should be removed from your subscription. Deprecated accounts are accounts that have been blocked from signing in." , "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/complianceResults", "name": "RemoveDeprecatedAccountsWithOwnerPermissions", "existenceCondition": { "field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"] } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/ebb62a0c-3560-49e1-89ed-27e074e9f8ad", "type": "Microsoft.Authorization/policyDefinitions", "name": "ebb62a0c-3560-49e1-89ed-27e074e9f8ad" } }
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”
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 20.9.1  10876
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": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}} }, "/providers/Microsoft.Authorization/policyDefinitions/523666e1-5b36-4f0c-a908-283e87b22a42", "properties": {"displayName": "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}", "strongType": "Microsoft.EventHub/Namespaces/AuthorizationRules", "assignPermissions": true}, "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": ""}, "metricsEnabled": {"type": "String", "metadata": {"displayName": "Enable metrics", "description": "Whether to enable metrics stream to the Event Hub - True or False"}, "allowedValues": ["True", "False"], "defaultValue": "False"}, "logsEnabled": {"type": "String", "metadata": {"displayName": "Enable logs", "description": "Whether to enable logs stream to the Event Hub - True or False"}, "allowedValues": ["True", "False"], "defaultValue": "True"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.KeyVault/vaults"}, {"anyOf": [{"value": ["parameters(eventHubLocation)"], "equals": ""}, {"field": "location", "equals": ["parameters(eventHubLocation)"])}], "then": {"effect": "deployIfNotExists", "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/b24988ac-6180-42a0-ab88-207382dd24ac"]}, "deployment": {"properties": {"mode": "incremental", "template": ":http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"vaultName": {"type": "string"}, "location": {"type": "string"}, "eventHubRuleId": {"type": "string"}, "metricsEnabled": {"type": "string"}, "logsEnabled": {"type": "string"}, "profileName": {"type": "string"}, "resources": ["type": "Microsoft.KeyVault/vaults/providers/diagnosticSettings"], "apiVersion": "2017-05-01-preview", "name": ["concat(parameters(vaultName)"), "]", "Microsoft.Insights/", "Open Source Used In SDWan 20.9.1 10877"}}
Open Source Used In SDWan
or
False"], "allowedValues": ["True", "False"], "defaultValue": "True"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.StreamAnalytics/streamingjobs"}, {"anyOf": [{"value": {"parameters(eventHubLocation)"}, "equals": ""}, {"field": "location", "equals": {"parameters(eventHubLocation)"}}]})], "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/b24988ac-6180-42a0-ab88-20f7382dd24c"], "deployment": {"properties": {"mode": "incremental", "template": "$schema": "http://schema.management.azure.com/schemas/2015-01-deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"resourceName": {"type": "string"}, "location": {"type": "string"}, "eventHubRuleId": {"type": "string"}, "metricsEnabled": {"type": "string"}, "profileName": {"type": "string"}, "variables": {}, "resources": {"type": "Microsoft.StreamAnalytics/streamingjobs/providers/diagnosticSettings", "apiVersion": "2017-05-01-preview", "name": "[concat(parameters('resourceName'), '/Microsoft.Insights/', parameters(profileName))]", "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/edf3780c-3d70-40fe-b17e-ab72013dafca", "type": "Microsoft.Authorization/policyDefinitions", "name": "edf3780c-3d70-40fe-b17e-ab72013dafca"}, {"properties": {"displayName": "Microsoft Managed Control 1189 - 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/ACF1189", "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/ee45e02a-4140-416c-82c4-fecf6a660b9d", "type": "Microsoft.Authorization/policyDefinitions", "name": "ee45e02a-4140-416c-82c4-fecf6a660b9d"}, {"properties": {"displayName": "Microsoft Managed Control 1089 - 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/ACF1089", "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/ef080e67-0d1a-4f76-a0c5-fb9b0358485e", "type": "Microsoft.Authorization/policyDefinitions", "name": "ef080e67-0d1a-4f76-a0c5-fb9b0358485e"}, {"properties": {"displayName": "Microsoft Managed Control 1314 - 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/ACF1314", "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/e8a067-011a-4f76-a0c5-fb9b0358485e", "type": "Microsoft.Authorization/policyDefinitions", "name": "e8a067-011a-4f76-a0c5-fb9b0358485e"}}}}}}}},
Managed Control 1128 - 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/ACF1128"
},
"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/ef0c8530-efd9-45b8-b753-f03083d06295",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "ef0c8530-efd9-45b8-b753-f03083d06295",
"properties": {
  "displayName": "Microsoft Compliance",
  "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/ACF1314"
  },
  "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/ef0c8530-efd9-45b8-b753-f03083d06295",
  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "ef0c8530-efd9-45b8-b753-f03083d06295",
  "properties": {
    "displayName": "Microsoft Compliance",
    "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/ACF1128"
    },
    "policyRule": {
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          "field": "type",
          "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]
        }, {
          "value": "false",
          "equals": "true"
        }]
      },
      "then": {
        "effect": "audit"
      }
    },
    "id": "/providers/Microsoft.Authorization/policyDefinitions/ef0c8530-efd9-45b8-b753-f03083d06295",
    "type": "Microsoft.Authorization/policyDefinitions",
    "name": "ef0c8530-efd9-45b8-b753-f03083d06295",
    "properties": {
      "displayName": "Vulnerability assessment should be enabled on your SQL servers",
      "policyType": "BuiltIn",
      "mode": "Indexed",
      "description": "Audit Azure SQL servers which do not have recurring vulnerability assessment scans enabled. Vulnerability assessment can discover, track, and help you remediate potential database vulnerabilities.",
      "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"
        }
      },
      "policyRule": {
        "if": {
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          "equals": "Microsoft.Sql/servers"
        },
        "then": {
          "effect": [parameters(''effect'')]
        }
      }
    },
    "id": "/providers/Microsoft.Authorization/policyDefinitions/ef212163-3bc4-4e86-bcf8-705127086393",
    "type": "Microsoft.Authorization/policyDefinitions",
    "name": "ef212163-3bc4-4e86-bcf8-705127086393",
    "properties": {
      "displayName": "API Management services should use a virtual network",
      "policyType": "BuiltIn",
      "mode": "Indexed",
      "description": "Virtual network on API Management services of the specified SKU should be enabled.",
      "metadata": {
        "version": "1.0.0",
        "category": "API Management"
      },
      "parameters": {
        "effect": {
          "type": "String",
          "metadata": {
            "displayName": "Effect",
            "description": "Enable or disable the execution of the policy"
          }
        }
      },
      "evaluatedSkuNames": {
        "type": "Array",
        "metadata": {
          "displayName": "API Management SKU Names",
          "description": "List of API Management SKUs against which this policy will be evaluated.",
          "allowedValues": ["Developer", "Basic", "Standard", "Premium", "Consumption"],
          "defaultValue": ["Developer", "Premium"]
        }
      },
      "policyRule": {
        "if": {
          "allOf": [{
            "field": "type",
            "equals": "Microsoft.ApiManagement/service"
          }, {
            "field": "Microsoft.ApiManagement/service/sku.name",
            "in": [parameters(evaluatedSkuNames)]
          }]
        },
        "then": {
          "effect": [parameters(''effect'')]
        }
      }
    },
    "id": "/providers/Microsoft.Authorization/policyDefinitions/ef619a2c-cc4d-4d03-b2ba-8c94a834d85b",
    "type": "Microsoft.Authorization/policyDefinitions",
    "name": "ef619a2c-cc4d-4d03-b2ba-8c94a834d85b",
    "properties": {
      "displayName": "Deploy Diagnostic Settings for Event Hub to Event
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. When the diagnostic settings have already been deployed to an Event Hub, the policy will be disabled.

**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.

**Parameters**:

- `effect`: String
  - Description: Enable or disable the execution of the policy.
  - Allowed Values: `[DeployIfNotExists, Disabled]`
  - Default Value: `DeployIfNotExists`

- `profileName`: String
  - Description: The diagnostic settings profile name.
  - Default Value: `setbypolicy_eventHub`

- `eventHubRuleId`: String
  - 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`: String
  - Description: 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.

- `metricsEnabled`: String
  - Description: Whether to enable metrics stream to the Event Hub.
  - Allowed Values: `[True, False]`
  - Default Value: `False`

- `logsEnabled`: String
  - Description: Whether to enable logs stream to the Event Hub.
  - Allowed Values: `[True, False]`
  - Default Value: `True`

**Policy Rule**:

- **If**: All or any of:
  - `type` equals `Microsoft.EventHub/namespaces` and `location` equals `[parameters('location')]`

- **Then**: Effect equals `[parameters('effect')]`

**Deployment**:

- **Properties**: Mode is incremental, and the template path is `http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#`

- **Resources**: Microsoft Event Hub namespaces providers/diagnosticSettings, with logical name `eventHubRuleId` and location `[parameters('location')]`, and inherits the `metricsEnabled` and `logsEnabled` settings for the Event Hub namespace.
Managed Control 1472 - Emergency Shutoff

Microsoft implements this Physical and Environmental Protection control.

Microsoft Managed Control 1472 - Emergency Shutoff

Managed Control 1012 - Account Management

Managed Control 1358 - Incident Response Testing
that Register with Azure Active Directory is enabled on Function App.

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.

Deploy prerequisites to audit Windows VMs that have the specified applications installed.

This policy creates a Guest Configuration assignment to audit Windows 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.
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"]
      }, {
        "field": "value",
        "equals": true
      }]
    },
    "then": {
      "effect": "audit"
    }
  }
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/f0643e0c-eee5-4113-8684-c608d05c5236",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "f0643e0c-eee5-4113-8684-c608d05c5236",

...and more policies...

TLS version should be used in your Web App.

Microsoft implements this Personnel Security control, 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",
        "AuditIfNotExists"
      ],
      "policyRule": {
        "if": {
          "allOf": [{
            "field": "type",
            "equals": "Microsoft.Web/sites"
          }, {
            "field": "kind",
            "like": "app*"
          }]
        },
        "then": {
          "effect": [param('"effect"')],
          "details": {
            "type": "Microsoft.Web/sites/config",
            "name": "web",
            "existenceCondition": {
              "field": "Microsoft
              .Web/sites/config/minTlsVersion",
              "equals": "1.2"
            }
          }
        }
      }
    }
  }
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/f0e6e85b-9b9f-4a4b-b67b-f730d42f1b0b",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "f0e6e85b-9b9f-4a4b-b67b-f730d42f1b0b",

Microsoft implements this Personnel Security control, 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."
      }
    },
    "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-reference."
      },
      "defaultValue": ".",
      "alertSeverities": {
        "type": "Array",
        "metadata": {
          "displayName": "Alert severities",
          "description": "Determines alert severities. Example: High;Medium;Low;".
        },
        "allowedValues": ["High", "Medium", "Low"],
        "defaultValue": ["High", "Medium", "Low"]
      }
    },
    "logicAppResourceId": {
      "type": "String",
      "metadata": {
        "displayName": "Logic App",
        "description": "The Logic App that is triggered. If you do not already have a logic app, visit Logic Apps to create one (https://portal.azure.com/#blade/HubsExtension/BrowseResourceBlade/resourceType/Microsoft.Logic%2Fworkflo"
The trigger connector of the logic app that is triggered. Possible values: "Manual (Incoming HTTP request)" or "When an Azure Security Center Alert is created or triggered."
Open Source Used In SDWan

Managed Control 1028 - Information Flow Enforcement

This policy audits any virtual network if the default route does not point to the specified virtual network gateway.

Example:

Deploy prerequisites to audit Linux VMs that do not have the passwd file permissions set to 0644.
Deploy 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.
01/deploymentTemplate.json#"contentVersion":"1.0.0.0","parameters":{"vmName":{"type":"string"},"location":{"type":"string"},"configurationName":{"type":"string"}},"resources":[{"condition":{"equalTo(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":
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toLower("Microsoft.Compute/virtualMachines"))},"apiVersion":"2018-11-
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"/AzurePolicyforWindows"),"type":"Microsoft.Compute/virtualMachines/extensions","location":
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version":"1.1","autoUpgradeMinorVersion":true,"settings":{},"protectedSettings":{},"dependsOn":
[concat("Microsoft.Compute/virtualMachines/parameters("vmName")","/providers/Microsoft.GuestConfiguration/guestConfigu-
rationAssignments/parameters("configurationName")")]},"id":"/providers/Microsoft.Authorization/policy-
Definitions/f1f4825d-58fb-4257-8016-8c00e3c9ed9d","type":"Microsoft.Authorization/policyDefinitions","name":"f1f4825d-58fb-4257-8016-
8c00e3c9ed9d"],"properties":{"displayName":"Microsoft Managed Control 1701 - Information System Monitoring | Host-Based Devices"},"policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{"version":"1.0.0"},"category":"Regulatory Compliance"},"additionalMetadataId":null,"providers/Extensions/Configuration/Windows"},"type":null,"name":null,"location":null,"dependsOn":null,"condition":null,"parameters":null,"resources":null,"id":null,"type":null,"name":null,"location":null}
Managed Control 1309 - Identification And Authentication (Org. Users) | Acceptance
Of Piv Credentials", "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/ACF1309"}, 
  "policyRule": {
    "if": {
      "allOf": [
        {
          "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], 
          "value": "false", "equals": "true"
        }
      ],
      "then": {
        "effect": "audit"
      }
    },
  "displayName": "Microsoft Managed Control 1309 - Identification And Authentication (Org. Users) | Acceptance Of Piv Credentials"
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        }
      ],
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      }
    },
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      "then": {
        "effect": "audit"
      }
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  "policyRule": {
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          "value": "false", "equals": "true"
        }
      ],
      "then": {
        "effect": "audit"
      }
    },
  "displayName": "Microsoft Managed Control 1309 - Identification And Authentication (Org. Users) | Acceptance Of Piv Credentials"}
Show audit results from Windows VMs that do not contain the specified certificates in Trusted Root.

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 VMs that do not contain the specified certificates in the Trusted Root Certification Authorities certificate store (Cert:\LocalMachine\Root). For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
stedRoot","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus","equals":"Compliant"}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/f3b9ad83-000d-4dc1-bff0-6d54533dd03f","type":"Microsoft.Authorization/policyDefinitions","name":"f3b9ad83-000d-4dc1-bff0-6d54533dd03f"},{"properties":{"displayName":"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"}}}},"id":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1706"},{"policyDefinitionId":"/providers/Microsoft.Authorization/policyDefinitions/f475ee0e-f560-4c9b-876b-04a77460a404","properties":{"displayName":"Audit Logs for VM - Report Mismatch","policyType":"BuiltIn","mode":"Indexed","description":"Reports VMs as non-compliant if they aren’t logging to the Log Analytics workspace specified in the policy/initiative assignment.","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."}}},{"policyRule":{"if":{"allOf": [{"field":"type","equals":"Microsoft.Compute/virtualMachines/extensions"}, {"field":"Microsoft.Compute/virtualMachines/extensions/publisher","equals":"Microsoft.EnterpriseCloud.Monitoring"}, {"field":"Microsoft.Compute/virtualMachines/extensions/settings.workspaceId","notEquals":parameters('logAnalyticsWorkspaceId')}]},"then":{"effect":"audit"}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/f47b5582-33ec-4c5c-87c0-b010a6b2e917","properties":{"displayName":"Authorization rules on the Event Hub instance should be defined","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"},"defaultValue":"AuditIfNotExists"}},"policyRule":{"if":{"field":"type","equals":"Microsoft.EventHub/namespaces/eventhubs"},"then":{"effect":{"parameters":{"effect"}}},"details":{"type":"Microsoft.EventHub/namespaces/eventHubs/authorizationRules"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/f4826e5f-6a27-407c-ae3e-9582eb39891d","properties":{"displayName":"[Preview]: Show audit results from Windows VMs that do not have the password complexity setting enabled","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 password complexity setting enabled. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/6a27-407c-ae3e-9582eb39891d"},{"properties":{"displayName":"[Preview]: Show audit results from Windows VMs that do not have the password complexity setting enabled","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 password complexity setting enabled. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"}}}},
DynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsS
erverHPCPack"]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"
field":"Microsoft.Compute/imageSKU","notLike":"2008*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublish
er","equals":"MicrosoftSQLServer"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]},{"allOf"
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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ageOffer","notLike":"SQL2008*"}]}]}]}]}]},{"allOf":[{"field":"type","equals":"Microsoft.HybridCompute/machin
es"},{"field":"Microsoft.HybridCompute/imageOffer","like":"windows*"}]}]},"then":{"effect":"auditIfNotExists","
details":{"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"PasswordMustMeetCom
plexityRequirements","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignment
s/complianceStatus","equals":"Compliant"}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/f48b29
13-1dc5-4834-8c72-ccc1dfd819bb","type":"Microsoft.Authorization/policyDefinitions","name":"f48b2913-1dc54834-8c72-ccc1dfd819bb"},{"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/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/f4978d0e-a596-48e7-9f8cbbf52554ce8d","type":"Microsoft.Authorization/policyDefinitions","name":"f4978d0e-a596-48e7-9f8cbbf52554ce8d"},{"properties":{"displayName":"[Preview]:
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":{"version":"1.1.0-preview","category":"Guest
Configuration","requiredProviders":["Microsoft.GuestConfiguration"],"preview":true},"parameters":{"NumberOfD
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Number of days","description":"The number of days without restart until the
machine is considered noncompliant"},"defaultValue":"12"}},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.Co

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MachineLastBootUpTime;NumberOfDays","value":}[parameters("NumberOfDays")]}}},{"condition":equals(toLower(parameters("type")),
toLower("Microsoft.Compute/virtualMachines")),"apiVersion":"2019-07-01","type":"Microsoft.Compute/virtualMachines","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/17d1049b-9a84-46fb-8f53-869881c3d3ab","type":"Microsoft.Authorization/policyDefinitions","name":"17d1049b-9a84-46fb-8f53-869881c3d3ab","properties":{"displayName":"Deploy Auditing on SQL servers","policyType":"BuiltIn","mode":"Indexed","description":"This policy ensures that Auditing is enabled on SQL Servers for enhanced security and compliance. It will automatically create a storage account in the same region as the SQL server to store audit records.","metadata":{"version":"1.0.0","category":"SQL"},"parameters":{"retentionDays":{"type":String,"metadata":{"description":"The value in days of the retention period (0 indicates unlimited retention)","displayName":"Retention days (optional, 180 days if unspecified)","defaultValue":"180"},"storageAccountsResourceGroup":{"type":String,"metadata":{"displayName":"Resource group name for storage accounts","description":"Auditing writes database events to an audit log in your Azure Storage account (a storage account will be created in each region where a SQL Server is created that will be shared by all servers in that region). Important - for proper operation of Auditing do not delete or rename the resource group or the storage accounts."}}},"policyRule":{"if":{"field":type,"equals":"Microsoft.Sql/servers"},"then":{"effect":"DeployIfNotExists","details":{"type":"Microsoft.Sql/servers/auditingSettings","name":"Default","existenceCondition":{"field":"Microsoft.Sql/auditingSettings.state","equals":"Enabled"},"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/056cd41c-7e88-42e1-933e-88ba6a50c9c3","/providers/microsoft.authorization/roleDefinitions/17d1049b-9a84-46fb-8f53-869881c3d3ab"],"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,"auditRetentionDays":{"type":String,"storageAccountsResourceGroup":{"type":String,"location":{"type":String,"variables":{"retentionDays":{"type":String,"storageAccountsResourceGroup":{"type":String,"location":"[toloower(concat(\"sqlaudit\",variables("locationCode")),variables("locationCode")),variables("uniqueStorage"))],createStorageAccountDeploymentName":concat(\"sqlServerAuditingStorageAccount\",uniqueString(variables("subscriptionId"),parameters("location"),parameters(\"storageAccountsResourceGroup\"))",\"locationCode\":[substring(parameters("location"),0,3)],\"storageName\":toloower(concat(\"sqlaudit\",variables("locationCode")),variables(\"uniqueStorage"))])\},\"resources\":{"apiVersion":"2017-05-10","name":variables(createStorageAccountDeploymentName")},"type":"Microsoft.Resources/deployments","re
users or groups listed in the access control list (ACL) of the `winreg` registry key.

"defaultValue": "\System\CurrentControlSet\Control\\ProductOptions\#\System\CurrentControlSet\\Control\\Server Applications\#\Software\Microsoft\Windows NT\CurrentVersion\\Print\\Printers\#\System\CurrentControlSet\\Services\\Eventlog\#\Software\Microsoft\OLAP Server\#\Software\Microsoft\Windows NT\CurrentVersion\\Print\#\Software\Microsoft\Windows NT\CurrentVersion\\System\CurrentControlSet\\Control\\ContentIndex\#\System\CurrentControlSet\\Control\\Terminal Server\#\System\CurrentControlSet\\Control\\Terminal Server\\UserConfig\#\System\CurrentControlSet\\Control\\Terminal Server\\DefaultUserConfiguration\#\System\CurrentControlSet\\Control\\Terminal Server\\DefaultUserConfig\#\System\CurrentControlSet\\Control\\Terminal Server\\DefaultUserConfiguration\#\Software\Microsoft\Windows NT\CurrentVersion\\PerfLib\#\System\CurrentControlSet\\Services\\SysmonLog" }, "NetworkAccessRemotelyAccessibleRegistryPathsAndSubpaths": { "type": "String", "metadata": { "displayName": "[Preview]: Network access: Remotely accessible registry paths and sub-paths", "description": "Specifies which registry paths and sub-paths will be accessible over the network, regardless of the users or groups listed in the access control list (ACL) of the `winreg` registry key.

"defaultValue": "\System\CurrentControlSet\\Control\\Print\\Printers\#\System\CurrentControlSet\\Services\\Eventlog\#\Software\Microsoft\OLAP Server\#\Software\Microsoft\Windows NT\CurrentVersion\\Print\#\Software\Microsoft\Windows NT\CurrentVersion\\System\CurrentControlSet\\Control\\ContentIndex\#\System\CurrentControlSet\\Control\\Terminal Server\#\System\CurrentControlSet\\Control\\Terminal Server\\UserConfig\#\System\CurrentControlSet\\Control\\Terminal Server\\DefaultUserConfiguration\#\System\CurrentControlSet\\Control\\Terminal Server\\DefaultUserConfig\#\System\CurrentControlSet\\Control\\Terminal Server\\DefaultUserConfiguration\#\Software\Microsoft\Windows NT\CurrentVersion\\PerfLib\#\System\CurrentControlSet\\Services\\SysmonLog" },

"NetworkAccessSharesThatCanBeAccessedAnonymously": { "type": "String", "metadata": { "displayName": "[Preview]: Network access: Shares that can be accessed anonymously", "description": "Specifies which network shares can be accessed by anonymous users. The default configuration for this policy setting has little effect because all users have to be authenticated before they can access shared resources on the server." },

"defaultValue": "0" },


"then": { "effect": "deployIfNotExists" },

"details": { "roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-01f904c42f63"] } } },
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207382dd24c"], "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", 
"name": "AzureBaseline_SecurityOptionsNetworkAccess", 
"existenceCondition": 
{ "field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash", 
estates": "[base64(concat("Network 
access: Remotely accessible registry paths;ExpectedValue", 
"=", 
parameters("NetworkAccessRemotelyAccessibleRegistryPaths"), 
"="), parameters("NetworkAccessRemotelyAccessibleRegistryPathsAndSubpaths"), 
"="), "Network access: Shares that can be accessed anonymously;ExpectedValue", 
"="), parameters("NetworkAccessSharesThatCanBeAccessedAnonymously")]
}, deployment: 
{ "properties": { "mode": "incremental", parameters: { "vmName": 
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{ "field": "type" }, "configurationName": { 
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"NetworkAccessRemotelyAccessibleRegistryPathsAndSubpaths": 
{ "value": [parameters("NetworkAccessRemotelyAccessibleRegistryPathsAndSubpaths")], 
"NetworkAccessSharesThatCanBeAccessedAnonymously": 
{ "value": [parameters("NetworkAccessSharesThatCanBeAccessedAnonymously")]
} } } },
name":"Network
access: Shares that can be accessed
anonymously;ExpectedValue","value":"[parameters(''NetworkAccessSharesThatCanBeAccessedAnonymously'')]"}]
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''/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/f56a3ab2-89d1-44de-ac0d2ada5962e22a","type":"Microsoft.Authorization/policyDefinitions","name":"f56a3ab2-89d1-44de-ac0d2ada5962e22a"},{"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
":{"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/f56be5c3-660b-4c61-9078f67cf072c356","type":"Microsoft.Authorization/policyDefinitions","name":"f56be5c3-660b-4c61-9078f67cf072c356"},{"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
":{"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/f5c66fdc-3d02-4034-9db5ba57802609de","type":"Microsoft.Authorization/policyDefinitions","name":"f5c66fdc-3d02-4034-9db5ba57802609de"},{"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
":{"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/f5fd629f-3075-4cae-ab53bad65495a4ac","type":"Microsoft.Authorization/policyDefinitions","name":"f5fd629f-3075-4cae-ab53bad65495a4ac"},{"properties":{"displayName":"Internet-facing
virtual machines should be protected with Network Security
Groups","policyType":"BuiltIn","mode":"All","description":"Protect
your VM from potential threats by restricting access to it with a Network

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Security Group (NSG). To learn more about controlling traffic with NSGs, visit https://aka.ms/nsg-doc.

Managed Control 1214 - Least Functionality

Microsoft implements this Configuration Management control

Microsoft Managed Control 1591 - External Information System Services | Ident. Of Functions / Ports / Protocols / Services

Microsoft implements this System and Services Acquisition control

Microsoft Managed Control 1330 - Authenticator Management | Password-Based Authentication

Microsoft implements this Identification and Authentication control

Microsoft Managed Control 1540 - Security Categorization

Microsoft implements this Risk Assessment control

Microsoft Managed Control 1513 - Open Source Used In SDWan

To learn more about controlling traffic with NSGs, visit https://aka.ms/nsg-doc.
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": {
  "if": {
    "allOf": [{
      "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
    }, {
      "value": "false",
      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
  }
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"properties": {
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  "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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    "allOf": [{
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    }, {
      "value": "false",
      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
  }
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"properties": {
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  "if": {
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    }, {
      "value": "false",
      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
  }
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/f784d3b0-f2b-49b7-b9f3-00ba8653ced5"},
"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": {
  "if": {
    "allOf": [{
      "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
    }, {
      "value": "false",
      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
  }
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/f784d3b0-f2b-49b7-b9f3-00ba8653ced5"},
"properties": {
  "displayName": "Microsoft Managed Control 1449 - Physical Access Authorizations",
  "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": {
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  "if": {
    "allOf": [{
      "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
    }, {
      "value": "false",
      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
  }
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/f784d3b0-f2b-49b7-b9f3-00ba8653ced5"},
"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": {
  "if": {
    "allOf": [{
      "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
    }, {
      "value": "false",
      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
  }
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/f784d3b0-f2b-49b7-b9f3-00ba8653ced5"},
"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": {
  "if": {
    "allOf": [{
      "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
    }, {
      "value": "false",
      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
  }
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/f784d3b0-f2b-49b7-b9f3-00ba8653ced5"},
"properties": {
  "displayName": "Microsoft Managed Control 1506 - 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/ACF1506"}, "policyRule": {
  "if": {
    "allOf": [{
      "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
    }, {
      "value": "false",
      "equals": "true"
    }]
  },
  "then": {
    "effect": "audit"
  }
"properties": {
  "displayName": "Show audit results from Windows VMs that do not have the specified Windows PowerShell execution policy",
  "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 where Windows PowerShell is not configured to use the specified PowerShell execution policy. 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": [{
            "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": "pivotad"},
                          "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/virtualMachinestorageProfile.osDisk.osType", "like": "Windows*"}],
                                "anyOf": [{
                                  "field": "Microsoft.Compute/imageSKU", "exists": "false"},
                                  "allOf": [{
                                    "field": "Microsoft.Compute/imageSKU", "notLike": "2008*"},
                                    "field": "Microsoft.Compute/im
Deploy prerequisites to audit Windows VMs configurations in "System Audit Policies - System". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - 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.

Audit Other System Events:

- Specifies whether audit events are generated for Windows Firewall Service and Windows Firewall driver start and stop events, failure events for these services and Windows Firewall Service policy processing failures.

- Allowed Values: ["No Auditing", "Success", "Failure", "Success and Failure"], default Value: "No Auditing"

Policy Rule:

- If: anyOf:
  - allOf:
    - field: type, equals: Microsoft.Compute/virtualMachines
    - anyOf:
      - allOf:
        - 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
      - 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*
      - allOf:
        - field: Microsoft.Compute/imageSKU, exists: false
        - field: Microsoft.Compute/imageSKU, notLike: "2008*"
      - field: Microsoft.Compute/imageOffer, notLike: "SQL2008*"

- Then:
  - Effect: deployIfNotExists
  - Details:
    - roleDefinitionIds: ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd24c"]
    - type: Microsoft.GuestConfiguration/guestConfigurationAssignments
    - name: AzureBaseline_SystemAuditPoliciesSystem

ParameterHash:

- base64(concat("Audit Other System Events;ExpectedValue", ")

Parameters:

- AuditOtherSystemEvents

Deployment:

- properties:
  - mode: incremental
  - vm Name: [field(name)]
  - location: [field(location)]
  - configurationName: [value: AzureBaseline_SystemAuditPoliciesSystem]
rameters("AuditOtherSystemEvents")]["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":{}],"dependsOn":][concat("Microsoft.Compute/virtualMachines",".parameters("vmName"),"/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments","parameters("configurationName")]]],"id":][providers/Microsoft.Authorization/policyDefinitions/f8b0158d-4766-490f-bea0-259e52dba473"],"type":"Microsoft.Authorization/policyDefinitions","name":][f8b0158d-4766-490f-bea0-259e52dba473"],"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"],"requiredRetention Days":]["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. Services In Azure and SDWan SDWan 20.9.1 Open Source Used In SDWan 20.9.1 10905
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/subscriptions"], "value": "false", "equals": "true" }] }, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/f8d36e2f-389b-4ee4-898d-21ae69a0f45", "type": "Microsoft.Authorization/policyDefinitions", "name": "f8d36e2f-389b-4ee4-898d-21ae69a0f45", }], "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/subscriptions"], "value": "false", "equals": "true" }] }, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/f8d36e2f-389b-4ee4-898d-21ae69a0f45", "type": "Microsoft.Authorization/policyDefinitions", "name": "f8d36e2f-389b-4ee4-898d-21ae69a0f45", }], "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/subscriptions"], "value": "false", "equals": "true" }] }, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/f8d36e2f-389b-4ee4-898d-21ae69a0f45", "type": "Microsoft.Authorization/policyDefinitions", "name": "f8d36e2f-389b-4ee4-898d-21ae69a0f45", }], "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/subscriptions"], "value": "false", "equals": "true" }] }, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/f8d36e2f-389b-4ee4-898d-21ae69a0f45", "type": "Microsoft.Authorization/policyDefinitions", "name": "f8d36e2f-389b-4ee4-898d-21ae69a0f45", }], "properties": {"displayName": "Microsoft
implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1108"}, "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/9ad559e-c12d-415e-9a78-e50fdd7da7ba", "type": "Microsoft.Authorization/policyDefinitions", "name": "f9ad559e-c12d-415e-9a78-e50fdd7da7ba", "properties": {"displayName": "Diagnostic logs in Azure Stream Analytics 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": "Stream Analytics"}, "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)"}, "defaultValue": "365"}}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.StreamAnalytics/streamingJobs"}, "then": {"effect": {"parameters": "effect"}, "details": {"type": "Microsoft.Insights/diagnosticSettings", "existenceCondition": {"count": {"field": "Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled", "where": {"anyOf": {"allOf": [{"field": "Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled", "equals": "true"}, {"anyOf": {"field": "Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled", "equals": "true"}]}], "greaterOrEquals": 1}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/f9be5368-9bf5-4b84-9e0a-7850da98bb46", "type": "Microsoft.Authorizations.Authorization/policyDefinitions", "name": "f9be5368-9bf5-4b84-9e0a-7850da98bb46", "properties": {"displayName": "Latest TLS version should be used in your Function App", "policyType": "BuiltIn", "mode": "Indexed", "description": "Upgrade to the latest TLS 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": "Microsoft.Web/sites/config/minTlsVersion", "equals": "1.2"}}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/f9d614c5-c173-4d56-95a7-b4437057d193", "type": "Microsoft.Authorization/policyDefinitions", "name": "f9d614c5-c173-4d56-95a7-b4437057d193", "properties": {"displayName": "Microsoft Managed Control 1280 - Telecommunications Services | Priority Of Service Provisions", "policyType": "Static", "mode": "Indexed", "description": "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"}]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fa108498-b3a8-4ff9b-9e79-1107e76fada3", "type": "Microsoft.Authorization/policyDefinitions", "name": "fa108498-b3a8-4ff9b-9e79-1107e76fada3"}
Managed Control 1037 - Least Privilege | Network Access To Privileged Commands

Managed Control 1435 - Media Transport

Managed Control 1675 - Flaw Remediation | Time To Remediate Flaws / Benchmarks

Deploy prerequisites to enable Guest Configuration Policy on Linux VMs.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
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"}, "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-a157-e99480ec364c"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "fb893a29-21bb-418c-a157-e99480ec364c"}, "{"properties": {"displayName": "[Preview]: 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": "[Preview]: 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"), subscription().Id)"}, "equals": "[last(split(field("Microsoft.Insights/logProfiles/storag eAccountId"), "/"))]"}, {"field": "Microsoft.Storage/storageAccounts/encryption.keySource", "equals": "Microsoft.Key vault"}]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fbb99e8e-e444-4da0-9ff1-75c92f5a85b2", "type": "Microsoft.Authorization/policyDefinitions", "name": "fbb99e8e-e444-4da0-9ff1-75c92f5a85b2"}, "properties": {"displayName": "[Preview]: All Internet traffic should be routed via your deployed Azure Firewall", "policyType": "BuiltIn", "mode": "All", "description": "All Internet traffic should be routed via your deployed Azure Firewall."}
Security Center has identified that some of your subnets aren’t protected with a next generation firewall. Protect your subnets from potential threats by restricting access to them with Azure Firewall or a supported next generation firewall.

**Metadata:**
- **Type:** Open Source
- **Version:** 1.0.0
- **Preview:** True

**Parameters:**
- **Effect:** Enable or disable All Internet traffic should be routed via your deployed Azure Firewall
- **Allowed Values:** [AuditIfNotExists, Disabled]

**Policy Rule:**
- If:
  - AllOf:
    - field: type, equals: Microsoft.Network/virtualNetworks/subnets
    - field: Microsoft.Network/virtualNetworks/subnets/routeTable, exists: false,
    - count: Microsoft.Network/virtualNetworks/subnets/ipConfigurations[*], greaterOrEquals: 2
    - field: name, notIn: [AzureFirewallSubnet, GatewaySubnet, AzureE BastionSubnet]]
  - then:
    - effect: parameters(effect))
    - details: Microsoft.Network/networkSecurityGroups
    - existenceScope: Subscription
    - existenceCondition:
      - allOf:
        - count: Microsoft.Network/networkSecurityGroups/subnets[*], where:
          - field: Microsoft.Network/securityGroups/subnets[*].id, like: 
            - concat(subscriptions/subscription().subscriptionId, /resourceGroups/*/providers/Microsoft.Network/virtualNetworks/,
            - first(split(fullName), "/"), "/subnets/,[name])]
          - equals: 1
        - count:
          - Microsoft.Network/networkSecurityGroups/securityRules[*], where:
            - allOf:
              - field: Microsoft.Network/securityGroups/securityRules[*].direction, equals: Outbound
              - Microsoft.Network/securityGroups/securityRules[*].access, equals: Deny
            - anyOf:
            - not:
              - Microsoft.Network/securityGroups/securityRules[*].destinationPortRanges, not Equals: [0-65535]]
      - greater: 0
      - count:
        - Microsoft.Network/networkSecurityGroups/securityRules[*], where:
          - allOf:
            - field: Microsoft.Network/securityGroups/securityRules[*].direction, equals: Outbound
            - Microsoft.Network/securityGroups/securityRules[*].access, equals: Allow
      - equals: 0
      - Microsoft.Network/networkSecurityGroups/securityRules[*].destinationPortRanges, not equals: [0-65535]

Managed Control 1075 - Access Control For Mobile Devices | Full Device / Container-Based Encryption

- **Policy Type:** Static
- **Mode:** Indexed
- **Description:** Microsoft implements this Access Control control
- **Metadata:** version: 1.0.0, category: Regulatory Compliance, additionalMetadataId: providers/Microsoft.PolicyInsights/policyMetadata/ACF1075

Policy Rule:
- If:
  - allOf:
    - field: type, in: [Microsoft.Resources/subscriptions/Microsoft.Resources/subscriptions/resourceGroups[]],
    - value: false, equals: True
  - then:
    - effect: audit

Show audit results from Windows VMs configurations in "Security Options - Microsoft Network Client".

- **Policy Type:** 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 - Microsoft Network Client. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Open Source Used In SDWan 20.9.1  10912
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}]}},"id":"/providers/Microsoft.Authorization/policyDefinitions/6d2a2d8c-868a-4702-a345-6e896c3361ce","type":"Microsoft.Authorization/policyDefinitions","name":"6d2a2d8c-868a-4702-a345-6e896c3361ce"},"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}]}},"id":"/providers/Microsoft.Authorization/policyDefinitions/6d4e54f7-9ab0-4bae-b6cc-457809948a89","type":"Microsoft.Authorization/policyDefinitions","name":"6d4e54f7-9ab0-4bae-b6cc-457809948a89"},"properties":{"displayName":"Microsoft Managed Control 1627 - Boundary Protection | External Telecommunications Services"},"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."},"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":true}]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/6d7c4c1d-51ee-4349-9dab-89a7f8c8d102"},"type":"Microsoft.Authorization/policyDefinitions","name":"6d7c4c1d-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."},"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":true}]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/6d7c4c1d-51ee-4349-9dab-89a7f8c8d102"},"type":"Microsoft.Authorization/policyDefinitions","name":"6d7c4c1d-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."},"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":true}]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/6d7c4c1d-51ee-4349-9dab-89a7f8c8d102"},"type":"Microsoft.Authorization/policyDefinitions","name":"6d7c4c1d-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."},"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":true}]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/6d7c4c1d-51ee-4349-9dab-89a7f8c8d102"},"type":"Microsoft.Authorization/policyDefinitions","name":"6d7c4c1d-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."},"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":true}]}}},"id":"/providers/Microsoft.Authorizat
Managed Control 1611 - Developer-Provided Training

Managed Control 1405 - Maintenance Tools | Inspect Tools

Managed Control 1613 - Developer Security Architecture And Design

Show audit results from Linux VMs that do not have the specified applications installed

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
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.", "parameters": {
  "effect": {
    "type": "String",
    "metadata": {
      "displayName": "Effect",
      "description": "Enable or disable the execution of the policy"
    }
  }
}

Managed Control 1407 - Maintenance Tools | Prevent Unauthorized Removal, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this maintenance control, which includes definitions for all cloud environments.

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.

```json
"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).", "defaultValue": ["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).", "defaultValue": ["High","Medium","Low"]},
  "deploymentScope": "subscription", "roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"],
  "deployment": {"location": "westeurope", "properties": {"mode": "incremental", "template": {"$schema": "https://schema.management.azure.com/schemas/2018-05-01/subscriptionDeploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": [{"resourceGroupName": {"type": "string"},
  "resourceGroupLocation": {"type": "string"},
  "exportedDataTypes": [{"type": "array"},
  "recommendationNames": [{"type": "array"},
  "recommendationSeverities": [{"type": "array"},
  "alertSeverities": [{"type": "array"},
    "workspaceResourceId": {"type": "string"}
}]
```
```
null
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Policy

EnforceRegoPolicy

Policy Rule

If:
- "field": "type",
- "equals": "Microsoft.ContainerService/managedClusters",
- "then": 
  - "effect": "[parameters("effect")]
- "allowedValues": 
  - "EnforceRegoPolicy",
  - "Disabled"
- "defaultValue": "EnforceRegoPolicy"

Policy Parameters

- "policyType": "BuiltIn",
- "mode": "Microsoft.KeyVault.Data",
- "description": "This policy manages the allowed key types for certificates.
- "parameters": 
  - "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

- "type": "String",
- "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")]
- "then": 
  - "effect": "[parameters("effect")]

Policy Definitions

- "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": 
    - "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

- "type": "String",
- "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/lifetimeAction.daysBeforeExpiry",
  - "exists": true,
  - "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.
  - "minimumDaysBeforeExpiry": "type": 
      - "Integer",
    - "metadata": 
      - "displayName": "[Preview]: The minimum days before expiry",
      - "description": "Enter the days before expiration of the certificate when you want to trigger the policy action.

Effect

- "type": "String",
- "metadata": 
  - "displayName": "[Preview]: Effect",
  - "description": 
    - "Enable or disable the execution of the policy."
- "allowedValues": 
  - "audit",
  - "deny",
  - "disabled"
- "defaultValue": "audit"

Policy Definitions

- "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.
  - "minimumDaysBeforeExpiry": "type": 
      - "Integer",
    - "metadata": 
      - "displayName": "[Preview]: The minimum days before expiry",
      - "description": "Enter the days before expiration of the certificate when you want to trigger the policy action.

Effect

- "type": "String",
- "metadata": 
  - "displayName": "[Preview]: Effect",
  - "description": 
    - "Enable or disable the execution of the policy."
- "allowedValues": 
  - "audit",
  - "deny",
  - "disabled"
- "defaultValue": "audit"

Policy Definitions

- "id": "/providers/Microsoft.Authorization/policyDefinitions/12ef42cb-9903-4e39-9c26-422d29570417",
- "type": "Microsoft.Authorization/policyDefinitions",
- "name": "12ef42cb-9903-4e39-9c26-422d29570417",
- "properties": 
  - "displayName": "[Deprecated]: Enforce labels on pods in AKS",
  - "policyType": "BuiltIn",
  - "mode": "Microsoft.ContainerService.Data",
  - "description": "This policy enforces the specified labels are provided for pods in an Azure Kubernetes

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Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies.

Comma-separated list of labels, description: "A comma-separated list of labels to be specified on Pods in Kubernetes cluster. E.g. test1,test2" 

Effect, description: "Enable or disable the execution of the policy", allowedValues: ['EnforceRegoPolicy', 'Disabled'], defaultValue: 'EnforceRegoPolicy' 


Effect, description: "Enable or disable the execution of the policy", allowedValues: ['enforceOPAConstraint', 'disabled'], defaultValue: 'enforceOPAConstraint'

namespace exclusions, description: "List of Kubernetes namespaces to exclude from policy evaluation. Providing a value for this parameter is optional.

namespace exclusions, values: ['excludedNamespaces': parameters("excludedNamespaces")]

Configure log filter expressions and datastore to be used for full logs for specified Azure Machine Learning computes, policyType: "BuiltIn", mode: "Microsoft.MachineLearningServices.Data", description: "This 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.

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.

Log filter expressions

Datastore

Datumore used to store filtered logs. Ex. LogsDatastore which is configured in AML.

Effect

Enable or disable the execution of the policy.

Allowed values: {"enforceSetting", "disabled"}, default value: "enforceSetting"

Policy rule

If any of the following conditions are met:

- value: "length(parameters('computeNames'))", equals: 0

Then:

- effect: "parameters('effect')"
- details: {"setting": {"name": "logFilter", "value": "parameters('logFilters')", "datastore": "parameters('datastore')"}}

ID:

/providers/Microsoft.Authorization/policyDefinitions/1d413020-63de-11ea-bc55-0242ac130003,

type: "Microsoft.Authorization/policyDefinitions",

ame: "1d413020-63de-11ea-bc55-0242ac130003",

Properties:

Display name: "Ensure services listen only on allowed ports in Kubernetes cluster",

Policy type: "BuiltIn",


Description: "This policy enforces services to listen only on allowed ports in a Kubernetes cluster.

For instructions on using this policy, visit https://aka.ms/kubepolicydoc.

Metadata:

Version: "3.0.0-preview",

Category: "Kubernetes",

Previews: true,

Parameters:

Allowed service ports list

The list of service ports allowed in a Kubernetes cluster.

Effect

Enable or disable the execution of the policy.

Allowed values: {"enforceOPAConstraint", "disabled"}, default value: "enforceOPAConstraint"

Exclude namespaces

List of Kubernetes namespaces to exclude from policy evaluation. Providing a value for this parameter is optional.

ID:

/providers/Microsoft.Authorization/policyDefinitions/233a2a17-77ca-4fb1-9b6b-69223d272a44,

type: "Microsoft.Authorization/policyDefinitions",

name: "233a2a17-77ca-4fb1-9b6b-69223d272a44",

Properties:

Display name: "Ensure services listen only on allowed ports in AKS",

Policy type: "BuiltIn",


Description: "This 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.

Metadata:

Version: "1.0.1-deprecated",

Category: "Kubernetes",

Deprecated: true,

Parameters:

Allowed service ports regex

Regex representing service ports

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allowed in Kubernetes cluster. E.g. Regex for allowing ports 443,446 is
`(443|446)\b$\)`

```
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":
{"allowedServicePortsRegex":"[parameters("allowedServicePortsRegex")]]
}],["id":"providers/Microsoft.Authorization/policyDefinitions/25dee3db-6ce0-4c02-ab5d-245887b24077","type":"Microsoft.Authorization/policyDefinitions","name":"25dee3db-6ce0-4c02-ab5d-245887b24077"],["properties":
{"displayName":"
Enforce HTTPS ingress in AKS","policyType":"BuiltIn","mode":"
Microsoft.ContainerService.Data","description":"This policy enforces HTTPS ingress in an Azure Kubernetes Service cluster. This policy is deprecated. Please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies."}],"metadata":
{"version":"1.0.1-deprecated","category":"Kubernetes service","deprecated":true,"parameters":
{"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":
{"displayName":"
[Preview]: Configure an approval endpoint called prior to jobs running for specified Azure Machine Learning computes","policyType":"BuiltIn","mode":
"Microsoft.MachineLearningServices.Data","description":"This policy helps configure an approval endpoint called prior to jobs running for specified Azure Machine Learning computes and can be assigned at the workspace. For more information. For more information, visit https://aka.ms/amlpolicydoc."}],"metadata":
{"version":"1.0.0-preview","category":"Machine Learning"}],"preview":true,"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":null},"approvalEndpoint":
{"type":"String","metadata":
{"displayName":"
[Preview]: Approval endpoint","description":"Approval endpoint that needs to be called before an Azure ML job is run. Ex. http://amlrunapproval/approve"}],"effect":
{"type":"String","metadata":
{"displayName":"
[Preview]: 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")]}},"id":"providers/Microsoft.Authorization/policyDefinitions/3948394e-63de-11ea-bc55-0242ac130003","type":"Microsoft.Authorization/policyDefinitions","name":"3948394e-63de-11ea-bc55-0242ac130003"}]
```
policy enforces the specified labels are provided for pods in a Kubernetes cluster. For instructions on using this policy, visit https://aka.ms/kubepolicydoc.

- **List of labels**: A list of labels to be specified on pods in a Kubernetes cluster.
- **Effect**: Enables or disables the execution of the policy.
- **Namespace exclusions**: A list of Kubernetes namespaces to exclude from policy evaluation.

Configure allowed module authors for specified Azure Machine Learning computes, where Azure ML jobs run. 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.

- **Compute names**: List of compute names where this policy should be applied. If no value is provided to this parameter then policy is applicable to all computes.
- **Allow module authors**: List of allowed module authors. Ex. authorname@contoso.com.
- **Effect**: Enables or disables the execution of the policy.

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**: List of compute names where this policy should be applied. If no value is provided to this parameter then policy is applicable to all computes.
- **Allowed module authors**: List of allowed module authors. Ex. authorname@contoso.com.
- **Effect**: Enables or disables the execution of the policy.

- **Allowed registries**: A list of allowed registries.
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": []},

"allowedACRs": {"type": "Array", "metadata": {"displayName": "[Preview]: Azure Container Registries", "description": "List of Azure Container Registries that can be used with Azure ML. Ex.
amlrepo.azurecr.io;amlrepo.azurecr.io/foo"}, "defaultValue": []},

effect": {"type": "String", "metadata": {"displayName": "[Preview]: Effect", "description": "Enable or disable the execution of the policy."}, "allowedValues": ["enforceSetting", "disabled"], "defaultValue": "enforceSetting" },

"policyRule": {"if": {"anyOf": [{"field": ".Data/workspaces/computes/name", "in": parameters('computeNames')}, {"value": parameters('computeNames').length, "equals": 0}]}, "then": {"effect": parameters('effect'), "details": {"setting": {"name": ".allowedACRs", "value": parameters('allowedACRs')}, "id": "/providers/Microsoft.Authorization/policyDefinitions/5853517a-63de-11ea-bc55-0242ac130003"}}}

Ensure only allowed container images in AKS», "policyType": "BuiltIn", "mode": "Microsoft.ContainerService.Data", "description": "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.", "metadata": {"version": "1.0.1-deprecated", "category": "Kubernetes service", "deprecated": true},

"parameters": {"allowedContainerImagesRegex": {"type": "String", "metadata": {"displayName": "[Deprecated]: Allowed container images regex", "description": "Regex representing container images allowed in Kubernetes cluster. E.g. Regex of azure container registry images is ^.+azurecr.io/.+$"}}},

"effect": "EnforceRegoPolicy", "allowedValues": ["EnforceRegoPolicy", "Disabled"], "defaultValue": "EnforceRegoPolicy" },


"properties": {"displayName": "[Preview]: Configure allowed Python packages for specified Azure Machine Learning computes", "policyType": "BuiltIn", "mode": "Microsoft.MachineLearningServices.Data", "description": "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.", "metadata": {"version": "1.0.0-preview", "category": "Machine Learning", "preview": true},

"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": []},

"allowedPythonPackageChannels": {"type": "Array", "metadata": {"displayName": "[Preview]: Allowed Python Package Channels", "description": "List of allowed Python package channels that can be assigned at the workspace. Ex. pypkg唢; pypkg2; pypkg3. If no value is provided to this parameter then policy is applicable to all packages."}, "defaultValue": []}
review):

"
"defaultValue": []}, "effect": {
"type": "String",
"metadata": {
"displayName": "[Preview]: Effect",
"description": "Enable or disable the execution of the policy."
}
}, "allowedValues": [{
"enforceSetting": true,
"disabled": false
}], "defaultValue": [{
"enforceSetting": true
}], "policyRule": {
"if": {
"anyOf": [{
"in": [parameters(computeNames)]
}, {
"value": [length(parameters(computeNames))],
"equals": 0]
}],
"then": {
"effect": [parameters(effect)],
"details": {
"setting": {
"name": "allowedPythonPackageChannels",
"value": [parameters(allowedPythonPackageChannels)]
}
}
}
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/77eeea86-7e81-4a7d-9067-de844d096752",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "77eeea86-7e81-4a7d-9067-de844d096752"}, "properties": {
"displayName": "[Deprecated]: 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.",
"metadata": {
"version": "1.0.1-deprecated",
"category": "Kubernetes"
}
}
}, "allowedValues": [{
"EnforceRegoPolicy": true,
"Disabled": false
}],
"defaultValue": "EnforceRegoPolicy"
}, "policyRule": {
"if": {
"field": "type",
"equals": "Microsoft.ContainerService/managedClusters"
}
},
"then": {
"effect": [parameters(effect)],
"details": {
"policyId": "ContainerNoPrivilege",
}
}
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7ce7ac02-a5c6-45d6-8d1b-844feb1c1531",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "7ce7ac02-a5c6-45d6-8d1b-844feb1c1531"}, "properties": {
"displayName": "[Preview]: 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.",
"metadata": {
"version": "1.0.0-preview",
"category": "Key Vault",
"preview": true
}
},
"allowedCAs": [{
"type": "Array",
"metadata": {
"displayName": "[Preview]: Allowed Azure Key Vault Supported CAs",
"description": "The list of allowed certificate authorities supported by Azure Key Vault.
"}
}
},
"defaultValue": [{
"DigiCert", "GlobalSign"
}],
"effect": [{
"type": "String",
"metadata": {
"displayName": "[Preview]: Effect",
"description": "Enable or disable the execution of the policy."
}
},
"allowedValues": [{
"audit": true,
"deny": false,
"disabled": false
}],
"defaultValue": "audit"
}, "policyRule": {
"if": {
"field": "Microsoft.KeyVault.Data/vaults/certificates/issuer.name",
"notIn": [parameters(allowedCAs)]
}
},
"then": {
"effect": [parameters(effect)],
"details": {
"policyId": "CertificateNoPrivilege",
}
}
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/8e826246-c976-48f6-b03e-61992b3d82",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "8e826246-c976-48f6-b03e-61992b3d82"}, "properties": {
"displayName": "[Preview]: Do not allow privileged containers in Kubernetes cluster",
"policyType": "BuiltIn",
"mode": "Microsoft.Kubernetes.Data",
"description": "This policy does not allow privileged containers creation 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
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},
"parameters": {
"effect": [{
"type": "String",
"metadata": {
"displayName": "[Preview]: Effect",
"description": "Enable or disable the execution of the policy."
}
},
"allowedValues": [{
"enforceSetting": true,
"disabled": false
}],
"defaultValue": [{
"enforceSetting": true
},
"then": {
"effect": [parameters(effect)],
"details": {
"setting": {
"name": "allowedPythonPackageChannels",
"value": [parameters(allowedPythonPackageChannels)]
}
}
}
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/77eeea86-7e81-4a7d-9067-de844d096752",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "77eeea86-7e81-4a7d-9067-de844d096752"}, "properties": {
"displayName": "[Deprecated]: 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.",
"metadata": {
"version": "1.0.1-deprecated",
"category": "Kubernetes"
}
},
"allowedValues": [{
"EnforceRegoPolicy": true,
"Disabled": false
}],
"defaultValue": "EnforceRegoPolicy"
}, "policyRule": {
"if": {
"field": "type",
"equals": "Microsoft.ContainerService/managedClusters"
}
},
"then": {
"effect": [parameters(effect)],
"details": {
"policyId": "ContainerNoPrivilege",
}
}
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7ce7ac02-a5c6-45d6-8d1b-844feb1c1531",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "7ce7ac02-a5c6-45d6-8d1b-844feb1c1531"}, "properties": {
"displayName": "[Preview]: 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.",
"metadata": {
"version": "1.0.0-preview",
"category": "Key Vault",
"preview": true
}
},
"allowedCAs": [{
"type": "Array",
"metadata": {
"displayName": "[Preview]: Allowed Azure Key Vault Supported CAs",
"description": "The list of allowed certificate authorities supported by Azure Key Vault.
"}
}
},
"defaultValue": [{
"DigiCert", "GlobalSign"
}],
"effect": [{
"type": "String",
"metadata": {
"displayName": "[Preview]: Effect",
"description": "Enable or disable the execution of the policy."
}
},
"allowedValues": [{
"audit": true,
"deny": false,
"disabled": false
}],
"defaultValue": "audit"
}, "policyRule": {
"if": {
"field": "Microsoft.KeyVault.Data/vaults/certificates/issuer.name",
"notIn": [parameters(allowedCAs)]
}
},
"then": {
"effect": [parameters(effect)],
"details": {
"policyId": "CertificateNoPrivilege",
}
}
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/8e826246-c976-48f6-b03e-61992b3d82",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "8e826246-c976-48f6-b03e-61992b3d82"}, "properties": {
"displayName": "[Preview]: Do not allow privileged containers in Kubernetes cluster",
"policyType": "BuiltIn",
"mode": "Microsoft.Kubernetes.Data",
"description": "This policy does not allow privileged containers creation in a Kubernetes cluster.
For instructions on using this policy, visit https://aka.ms/kubepolicydoc.
"}
}
Policy Definition for Integrating AKS into the Kubernetes Service Mesh

**Policy Name:** container-no-privilege

**Description:** This policy enforces that AKS clusters use internal load balancers and ensures that containers do not have public IPs.

**Definition Details:**
- **Effect:** EnforceRegoPolicy
- **Parameters:**
  - caCommonName: The common name of the certificate authority.
  - excludedNamespaces: A list of namespaces to exclude from policy evaluation.

**Configuration Example:**
```yaml
Microsoft.Authorization/policyDefinitions/95edb821-ddaf-4404-9732-666045e056b4
```

---

**Policy Definition for Integrating Azure Key Vault into AKS**

**Policy Name:** key-vault-data

**Description:** This policy manages certificates issued by a non-integrated Certificate Authority.

**Definition Details:**
- **Effect:** audit
- **Parameters:**
  - caCommonName: The common name of the certificate authority.

**Configuration Example:**
```yaml
Microsoft.Authorization/policyDefinitions/a22f4a40-01d3-4c7d-8071-da157eeff341
```

---

**Policy Definition for Enforcing Resource Limits in AKS**

**Policy Name:** container-resource-limits

**Description:** This policy enforces CPU and memory resource limits on containers in an Azure Kubernetes Service cluster.

**Definition Details:**
- **Effect:** EnforceRegoPolicy
- **Parameters:**
  - excludedNamespaces: A list of namespaces to exclude from policy evaluation.

**Configuration Example:**
```yaml
Microsoft.Authorization/policyDefinitions/a2d3ed81-8d11-4079-80a5-1faadc0024f4
```

---

**Policy Definition for Excluding Namespaces from Policy Evaluation**

**Policy Name:** excludeNamespaces

**Description:** This policy allows exclusion of Kubernetes namespaces from policy evaluation.

**Definition Details:**
- **Allowed Values:** enforceOPAConstraint, disabled
- **Default Value:** enforceOPAConstraint

**Configuration Example:**
```yaml
Microsoft.Authorization/policyDefinitions/d073a696-d07e-4fe2-b7a7-5f1f5e547d3d
```

---

**Policy Definition for Use of Open Source in SDWAN**

**Description:** This policy defines usage of open source components in SDWAN environments.

**Definition Details:**
- **Effect:** enforceOPAConstraint
- **Parameters:**
  - excludedNamespaces: A list of namespaces to exclude from policy evaluation.

**Configuration Example:**
```yaml
Microsoft.Authorization/policyDefinitions/95edb821-ddaf-4404-9732-666045e056b4
```
Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc
for instructions on using new Kubernetes policies.","metadata":{"version":"1.0.1deprecated","category":"Kubernetes
service","deprecated":true},"parameters":{"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":"LoadBalancersInternal","policy":"https://raw.githubusercontent.com/Azure/azurepolicy/master/built-in-references/KubernetesService/loadbalancer-no-publicips/limitedpreview/gatekeeperpolicy.rego"}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/a74d8f00-2fd94ce4-968e-0ee1eb821698","type":"Microsoft.Authorization/policyDefinitions","name":"a74d8f00-2fd9-4ce4-968e0ee1eb821698"},{"properties":{"displayName":"[Deprecated]:
Enforce unique ingress hostnames across namespaces in Kubernetes
cluster","policyType":"BuiltIn","mode":"Microsoft.Kubernetes.Data","description":"This
policy enforces unique ingress hostnames across namespaces in a Kubernetes
cluster. For instructions on using this policy, please go to
https://aka.ms/kubepolicydoc.","metadata":{"version":"2.0.1deprecated","category":"Kubernetes","deprecated":true},"parameters":{"effect":{"type":"String","metadata":{"displ
ayName":"[Deprecated]:
Effect","description":"Enable or disable the execution of the
policy"},"allowedValues":["enforceOPAConstraint","disabled"],"defaultValue":"enforceOPAConstraint"},"exclude
dNamespaces":{"type":"Array","metadata":{"displayName":"[Deprecated]:
Namespace exclusions","description":"List of Kubernetes namespaces to exclude
from policy evaluation. Providing a value for this parameter is
optional."},"defaultValue":[]}},"policyRule":{"if":{"field":"type","in":["AKS
Engine","Microsoft.Kubernetes/connectedClusters"]},"then":{"effect":"[parameters(''effect'')]","details":{"constraint
viders/Microsoft.Authorization/policyDefinitions/b2fd3e59-6390-4f2b-8247ea676bd03e2d","type":"Microsoft.Authorization/policyDefinitions","name":"b2fd3e59-6390-4f2b-8247ea676bd03e2d"},{"properties":{"displayName":"[Preview]:
Manage allowed curve names for elliptic curve cryptography
certificates","policyType":"BuiltIn","mode":"Microsoft.KeyVault.Data","description":"This
policy manages the allowed elliptic curve names for elliptic curve cryptography
certificates.","metadata":{"version":"1.0.0-preview","category":"Key
Vault","preview":true},"parameters":{"allowedECNames":{"type":"Array","metadata":{"displayName":"[Preview]:
Allowed elliptic curve names","description":"The list of allowed curve names
for elliptic curve cryptography certificates."},"allowedValues":["P-256","P-256K","P-384","P521"],"defaultValue":["P-256","P-256K","P-384","P521"]},"effect":{"type":"String","metadata":{"displayName":"[Preview]:
Effect","description":"Enable or disable the execution of the
policy"},"allowedValues":["audit","deny","disabled"],"defaultValue":"audit"}},"policyRule":{"if":{"allOf":[{"field
":"Microsoft.KeyVault.Data/vaults/certificates/keyProperties.keyType","in":["EC","ECHSM"]},{"field":"Microsoft.KeyVault.Data/vaults/certificates/keyProperties.ellipticCurveName","notIn":"[paramet
ers(''allowedECNames'')]"}]},"then":{"effect":"[parameters(''effect'')]"}}},"id":"/providers/Microsoft.Authorization/
policyDefinitions/bd78111f-4953-4367-9fd5-

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Manage minimum key size for RSA certificates.

- **Policy Type**: BuiltIn
- **Mode**: Microsoft.KeyVault.Data
- **Description**: This policy manages the minimum key size for RSA certificates.
- **Metadata**:
  - **Version**: 1.0.0-preview
  - **Category**: Key Vault
  - **Preview**: true
  - **Parameters**:
    - **minimumRSAKeySize**: Integer
    - **allowedValues**: [2048, 3072, 4096]
    - **allowedValues**: [audit, deny, disabled]
    - **allowedValues**: [enforceRegoPolicy, Disabled]

Ensure container CPU and memory resource limits do not exceed the specified limits in Kubernetes cluster.

- **Policy Type**: BuiltIn
- **Mode**: Microsoft.Kubernetes.Data
- **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.
- **Parameters**:
  - **cpuLimit**: String
  - **memoryLimit**: String

Enforce unique ingress hostnames across namespaces in AKS.

- **Policy Type**: BuiltIn
- **Mode**: Microsoft.ContainerService.Data
- **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.
- **Parameters**:
  - **effect**: EnforceRegoPolicy
  - **details**:
    - **policyId**: UniqueIngressHostnames

Max allowed CPU units

- **Type**: String
- **Metadata**:
  - **DisplayName**: Max allowed CPU units
  - **Description**: The maximum CPU units allowed for a container. E.g. 200m.
- **Parameters**:
  - **cpuLimit**: String
  - **memoryLimit**: String

Max allowed memory bytes

- **Type**: String
- **Metadata**:
  - **DisplayName**: Max allowed memory bytes
  - **Description**: The maximum memory bytes allowed for a container. E.g. 1Gi.
policy"}},"allowedValues":{"enforceOPAConstraint","disabled"},"defaultValue":"enforceOPAConstraint"},"exclude
Namespace exclusions","description":"List of Kubernetes namespaces to exclude from policy evaluation. Providing a value for this parameter is optional.[]],"defaultValue":[]}]}},"policyRule":{"if":{"field":"type","in\["AKS Engine","Microsoft.Kubernetes/connectedClusters","Microsoft.ContainerService/managedClusters\]"},"then":{"effect":"[parameters\["effect\]]"},"details":{"constraintTemplate":"https://raw.githubusercontent.com/Azure/azure-policy/master/built-in-references/Kubernetes/container-resource-limits/template.yaml","constraint":"https://raw.githubusercontent.com/Azure/azure-policy/master/built-in-references/Kubernetes/container-resource-limits/constraint.yaml","values":{"cpuLimit":"[parameters\["cpuLimit\]]","memoryLimit":"[parameters\["memoryLimit\]]","excludedNamespaces":"[parameters\["excludedNamespaces\]]"}}}},{"id":"/providers/Microsoft.Authorization/policyDefinitions/e345eccc-fa47-480f-9e88-67dccc122b164","type":"Microsoft.Authorization/policyDefinitions","name":"e345eccc-fa47-480f-9e88-67dccc122b164"},{"properties":{\"displayName\":\"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\":\"Days to expire\",\"description\":\"The number of days for a certificate to expire.\"\}\}\},\"effect\":\{"type\":\"String\",\"metadata\":\{\"displayName\":\"Effect\",\"description\":\"Enable or disable the execution of the policy\"\}\},\"allowedValues\":\{"audit\",\"deny\",\"disabled\"],\"defaultValue\":\"audit\"]},\"policyRule\":\{\"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\":\"f772fb64-8e40-40ad-87bc-7706e1949427\"},{\"properties\":\{\"displayName\":\"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\":\"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\":\"Effect\",\"description\":\"Enable or disable the execution of the policy\"\}\},\"allowedValues\":\{"enforceOPAConstraint","disabled"],\"defaultValue\":\"enforceOPAConstraint"},\"exclude
Namespace exclusions","description":\"List of Kubernetes namespaces to exclude from policy evaluation. Providing a value for this parameter is optional.[]],\"defaultValue":[]}]}},\"policyRule\":\{\"if\":\{"field\":\"type\",\"in\":\["AKS Engine","Microsoft.Kubernetes/connectedClusters","Microsoft.ContainerService/managedClusters\]\},\"then\":\{\"effect\":\"[parameters\[\"effect\"]\"]\},\"details\":\{\"constraintTemplate\":\"https://raw.githubusercontent.com/Azure/azure-policy/master/built-in-references/Kubernetes/container-allowed-
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The list of locations that can be specified when deploying resources.

The priority slot for the new rule.

The addresses to open.

For the rule.

The name of the tag.

The name of the subscription.

The value of the subscription ID.

The name of the role definition.

The name of the policy definition.

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The name of the role definition.

The name of the management group.

The name of the subscription.

The name of the policy definition.
Locations")], \{"not":\{"field":"Microsoft.ContainerService/managedClusters/networkProfile.networkPlugin","equals":"azure"\}\}], \"then":\{"effect":"parameters(\"effect\")\}]], \"id":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b76615f2792/providers/Microsoft.Authorization/policyDefinitions/26db8d27b6fa91aa", \"type":"Microsoft.Authorization/policyDefinitions", \"name":"26db8d27b6fa91aa", \"properties":\{"displayName":"audit ssh auth on existing resources_1.1", \"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-4e80-9521-321ab1f5764", \"createdOn":"2019-12-06T21:04:41.477743Z", \"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\")\)], \"exists":false\}, \"value":\[resourceGroup().tags[parameters(\"resourcetagname\")]]\}, \"notEquals":\"\}, \"field":"type", \"equals":"Microsoft.Compute/virtualMachines\}, \"field":\"Microsoft.Compute/virtualMachines/osProfile.linuxConfiguration\}, \"exists":\"True\"\}, \"field":\"Microsoft.Compute/virtualMachines/osProfile.linuxConfiguration.disablePasswordAuthentication\}, \"equals":false\}], \"then":\{"\"effect":"audit\}"\}], \"id":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b76615f2792/providers/Microsoft.Authorization/policyDefinitions/28b685eba93cc71f", \"type":"Microsoft.Authorization/policyDefinitions", \"name":"28b685eba93cc71f", \"properties":\{"displayName":"nrms-nsg-rule-101_1.1", \"policyType":"Custom", \"mode":"All", \"metadata":\{"createdBy":"1f75b9dd-4f1d-4e80-9521-321ab1f5764", \"createdOn":"2019-07-08T19:20:14.0863618Z", \"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":"sourceType\", \"description":"null\}"\}, \"allowedValues":\[\"IP Addresses\", \"Service Tag\", \"App Security\"

policyRule:
- "if":
  "allOf":
  - "field": "type",
    "equals": "Microsoft.Network/networkSecurityGroups",
    "field": "location",
    "in": "[parameters("allowedLocations")]",
    "field": "tags[",
      "parameters("tagName")",
      "]"]",
    "exists": false,
    "value": "[subscription().subscriptionId]",
    "notIn": "[parameters("subscriptionExclusions")]",
    "then":
      "deployIfNotExists",
      "details":
        "roleDefinitionIds":
          "/providers/Microsoft.Authorization/roleDefinitions/4d97b98b-1d4f-47834d212e7",
        "existenceCondition":
          "anyOf":
            
            "[allOf]:
              ["field": "fullName",
              "equals": "Cleanuptool-Deny-103"],
              ["field": "Microsoft.Network/networkSecurityGroups/securityRules/access",
              "equa"
              "ls": ["parameters("actionValue")]",
              "equa"
              "ls": ["parameters("direction")]"]],
            "allOf":
              ["field": "fullName",
              "equals": "[length(variables("SourceArr"))]", 
              "input":
              "id":
              "if([equals(parameters("sourceType"), "App Security Group"),
                if(contains(variables("SourceArr"), json("null")), "subscriptionId"],
                "variables["SourceArr"]"]
              "copy"],
              "count": ["length(variables("SourceArr"))]"
            ]
          ,
          "deployment":
            ["properties":
              ["mode": "incremental",
              "template": "$schema":
              "https://schema.management.azure.com/schemas/2015-01-
              01/deploymentTemplate.json#", "contentVersion": "1.0.0.0"
              , "parameters":
              ["fullName":
              "parameters("string")", "ruleNo":
              "parameters("ruleNo")", 
              "type": "String"],
              "destinationPortRanges":
              ["type": "Array"],
              "protocol":
              ["type": "String"],
              "sourceType":
              ["type": "String"],
              "sourceValue":
              ["type": "String"],
              "direction":
              ["type": "String"],
              "info":
              ["type": "String"],
              "variables":
              ["SourceArr":
              [split(parameters("sourceValue"), "]")],
              "appSecGroups":
              ["copy":
              ["name": "values",
              "count": ["length(variables("SourceArr"))]"
              ]
            ]
          ,
          "variables":
          ["SourceArr":"copyindex(values")],
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          "variables":
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      "properties":
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      parameters("destinationPortRanges")])
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}
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rameters("ruleno")"]}, {"field": "Microsoft.Network/networkSecurityGroups/securityRules/access", "equals": ["Deny"]}, {"field": "Microsoft.Network/networkSecurityGroups/securityRules/direction", "equals": ["Inbound"]})}]}, "deployment": {"properties": {"deploymentsSettings": "incremental", "template": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "parameters": {"fullName": "Cleanuptool-Deny-103", "ruleNo": "103", "destinationPortRanges": ["Any", "*"]}, "variables": {"SourceArr": ["split(parameters('sourceValue'), ',','')"]}}}, "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')"], "sourcePortRange": ["*", "parameters('sourcePortPrefix')"], "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'), ifcontains(variables('SourceArr'), ["subscriptions"]), variables('SourceArr')[copyindex('values')])", "parameters('sourceType')"], "destinationPortRanges": ["if(equals(1,length(parameters('destinationPortRanges'))), json('null'), parameters('destinationPortRanges'))", "destinationPortRange": ["if(equals(1,length(parameters('destinationPortRanges')))), "parameters('destinationPortRanges')[0]", "parameters('destinationPortRanges')[0]"], "destinationAddressPrefix": ["*", "parameters('destinationApplicationSecurityGroups') : ["", "parameters('access') : ["parameters('actionValue')"], "priority": ["parameters('ruleNo')"], "direction": ["parameters('direction')"]]]"], "parameters": {"fullName": ["field('fullName')"], "ruleNo": ["parameters('ruleNo')"], "destinationPortRanges": ["value : ["parameters('destinationPortRanges')"]], "protocol": ["parameters('protocol')"], "sourceType": ["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-b76615f2792/providers/Microsoft.Authorization/policyDefinitions/3c07197392ad62f", "name": "nrms-nsg-rule-105_1.1", "policyType": "Custom", "mode": "All", "metadata": ["createdBy": "1f75b9dd-4f1d-4e80-9521-321a8b1f5764", "createdOn": "2019-07-08T19:20:18.4394851Z", "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"]}
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Open Source Used In SDWan

- ansys_17-2-fluids-structures
- ansys_182_test
- comsol-multiphysics-v5-2
- openfoam-v2dot3-centos-v6
- openfoam-v3dot0
- star-ccm-v10-06-heeds-mdo-v2015
- star-ccm-v12-00

- ansys-17-2-fluids-structures
- ansys-182-test
- comsol-multiphysics-v5-2
- openfoam-v2dot3-centos-v6
- openfoam-v3dot0
- star-ccm-v10-06-heeds-mdo-v2015
- star-ccm-v12-00

- unifi-data-catalog
- unifi-dataplatform-2-3-3-vm
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Open Source Used In SDWan

- secured-media-wiki-on-centos
- secured-modx-on-centos
- secured-moodle-on-centos
- secured-nginx-on-centos-7-3
- secured-nginx-on-ubuntu-14-04-Its
- secured-nginx-on-ubuntu-16-04-Its
- secured-noalyss-on-centos
- secured-noalyss-on-ubuntu-14-04-Its
- secured-nodejs-on-centos
- secured-occlass-on-ubuntu-14-04-Its
- secured-ocportal-on-ubuntu-14-04-Its
- secured-open-cart-on-centos
- secured-orangehrm-on-centos
- secured-osclass-on-centos
- secured-owncloud-on-centos
- secured-oxid-eshop-on-centos
- secured-oxideshop-on-ubuntu-14-04-Its
- secured-passenger-nginx-on-centos
- secured-piwigo-gallery-on-centos
- secured-plone-on-centos
- secured-plone-on-ubuntu-14-04-Its
- secured-prestashop-on-centos
- secured-prestashop-on-ubuntu-14-04-Its
- secured-railo-on-ubuntu-14-04-Its
- secured-redis-on-centos
- secured-redis-on-ubuntu-1404
- secured-redmine-on-centos
- secured-redmine-on-ubuntu-14-04-Its
- secured-redmineagile-on-ubuntu-14-04-Its
- secured-report-server-on-centos
- secured-reportserverent-on-ubuntu-14-04-Its
- secured-resource-space-on-centos
- secured-resource-space-on-ubuntu-14-04-Its
- secured-roundcube-on-centos
- secured-roundcube-on-ubuntu-14-04-Its
- secured-ruby-on-centos
- secured-ruby-on-ubuntu-14-04-Its
- secured-seopanel-on-centos
- secured-seopanel-on-ubuntu-14-04-Its
- secured-silverstripe-on-centos
- secured-simple-invoice-on-centos
- secured-simple-machines-on-centos
- secured-simple-machines-on-ubuntu-14-04-Its
- secured-simpleinvoice-on-ubuntu-14-04-Its
- secured-suitecrm-on-ubuntu-14-04-Its
- secured-subversion-on-centos
- secured-subversion-on-ubuntu-14-04-Its
- secured-suitcrm-on-centos
- secured-suitcrm-on-ubuntu-14-04-Its
- secured-test-link-on-centos
- secured-testlink-on-ubuntu-14-04-Its
- secured-thinkup-on-centos
- secured-thinkup-on-ubuntu-14-04-Its
- secured-tikiwikics-on-centos
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- secured-tinytinyrss-on-ubuntu-14-04-Its
- secured-tomcat-on-centos
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- secured-typo3-on-centos
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- secured-varnish-on-centos
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- secured-wildfly-on-centos
- secured-wildfly-on-ubuntu-14-04-Its
- secured-wordpress-on-centos-7-3
- secured-wordpress-on-ubuntu-16-04-Its
- secured-x-cart-on-ubuntu-14-04-Its
- secured-xoops-on-centos
- secured-xoops-on-ubuntu-14-04-Its
- secured-zurmo-on-centos
- secured-zurmo-on-ubuntu-14-04-Its
- suse15
- ubuntu-14-04-lts
- ubuntu-16-04-lts
- ubuntu-17-04-high-performance-hardened-tcp-bbr
- ubuntu-18-04
- ubuntu-18-04-lts

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Open Source Used In SDWan 20.9.1  10985
or disable the execution of the policy}, "allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit" }, "allowedLocations": { "type": "Array", "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.Batch/batchAccounts" } ] }, "then": { "effect": "[parameters('effect')]" } }, "id": "/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b76615ff2792/providers/Microsoft.Authorization/policyDefinitions/7ac748b596341488", "type": "Microsoft.Authorization/policyDefinitions", "name": "7ac748b596341488", "properties": { "displayName": "nrms-subnet-require-nsg_1.3", "policyType": "Custom", "mode": "All", "metadata": { "createdBy": "1f75b9dd-4f1d-4e80-9521-321a881f5764", "createdOn": "2020-02-24T19:34:01.1631389Z", "updatedBy": null, "updatedOn": null }, "parameters": { "effect": { "type": "String", "metadata": { "displayName": "Effect", "description": "Enable or disable the execution of the policy" }, "allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit" }, "allowedLocations": [ "type": "Array", "metadata": { "displayName": "Allowed locations", "description": "The list of locations that can be specified when deploying resources." }, "strongType": "location" ] } }, "policyRule": { "if": { "allOf": [ { "field": "location", "in": [ parameters('allowedLocations') ] } ] }, "then": { "effect": "[parameters('effect')]" } }, "id": "/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b76615ff2792/providers/Microsoft.Authorization/policyDefinitions/789cfec91f9e1858", "type": "Microsoft.Authorization/policyDefinitions", "name": "789cfec91f9e1858", "properties": { "displayName": "nrms-nsg-rule-102_1.3", "policyType": "Custom", "mode": "All", "metadata": { "createdBy": "1f75b9dd-4f1d-4e80-9521-321a881f5764", "createdOn": "2020-02-24T21:28:28.7454992Z", "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": "" }, "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" } } ] } }
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'NRMS-Rule-'

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  "equals": "[parameters('direction')]
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  "equals": "Any"
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{ "field": "Microsoft.Network/networkSecurityGroups/securityRules/access",
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              }

            }

          }

        }

      }

    }

  }

}
}
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The list of locations that can be specified when deploying resources.

The list of locations that can be specified when deploying resources.

The priority slot for the new rule.

security rule port numbers must match these numbers.

subscriptions excluded from policy due to security exceptions.

Protocol for the rule.

security rule port numbers must match these numbers.

subscriptions excluded from policy due to security exceptions.

Protocol for the rule.

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Protocol for the rule.

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Protocol for the rule.

security rule port numbers must match these numbers.

subscriptions excluded from policy due to security exceptions.

Protocol for the rule.
The list of locations that can be specified when deploying resources.

The priority slot for the new rule.

A description of the location.

A protocol for the rule.

A tag name.
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(\"resourcecTagname\"))], "exists": \"false\"}, {"value": [resourceGroup().tags[parameters(\"resourcetgname\")]], "equals": \"\"}, {"value": [subscription().tags[parameters(\"subscriptionTagname\")]], "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/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyDefinitions/9135d7012c4033cb\" }, "properties": {"displayName": \"nrms-nsg-rule-105_1.3\", "policyType": \"Custom\", "mode": \"All\", "metadata": {\"createdBy\": \"1f75b9dd-4f1d-4e80-9521-321a8b1f5764\", \"createdOn\": \"2020-02-24T21:28:42.3856221Z\", \"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": \"\"}, \"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\"}, \"defaultValue": \"\"}, \"sourceValue": \"\", \"allowedValues": [\"IP Addresses\", \"Service Tag\", \"App Security Group\"], \"sourceValue": {"type": \"String\", "metadata": {\"displayName": \"sourceValue\", \"description": \"\"}, \"actionValue": {"type": \"String\", \"metadata": {\"displayName": \"actionValue\", \"description": \"\"}, \"allowedValues": [\"Allow\", \"Deny\"], \"direction": {"type": \"String\", \"metadata": {\"displayName": \"direction\", \"description": \"\"}, \"defaultValue": \"\"}, \"allowedValues": [\"Inbound\", \"Outbound\"], \"tagName": {"type": \"String\", \"metadata": {\"displayName": \"Tag Name\", \"description": \"Rule is not deployed if this tag exists on the NSG\"}, \"defaultValue": \"\"}, \"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[\"Skip NRMSAll\"]], \"exists": \"false\"}, {\"value": [resourceGroup().tags[\"SkipNRMSAll\"]], \"equals": \"\"}, {\"field": [tags[\"autopilotcluster\"]], \"exists": \"false\"}, {\"value": [resourceGroup().tags[\"autopilotcluster\"]], \"equals": \"\"}, \"field": tags[\"aut
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```json
{
  "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
  "contentVersion": "1.0.0.0",
  "parameters": {
    "fullName": {
      "type": "string"
    },
    "ruleNo": {
      "type": "string"
    },
    "sourcePortRanges": {
      "type": "array"
    },
    "protocol": {
      "type": "string"
    },
    "sourceType": {
      "type": "string"
    },
    "sourceValue": {
      "type": "string"
    },
    "actionValue": {
      "type": "string"
    },
    "direction": {
      "type": "string"
    },
    "info": {
      "type": "string"
    }
  },
  "variables": {
    "SourceArr": {
      "copy": {
        "name": "values",
        "count": "length(parameters(''SourceArr''))",
        "input": {
          "id": "if(equals(parameters(''sourceType''), ''App Security Group''), appId, json(''null''))",
          "variables": {
            "SourceArr": {
              "copyindex(index(''values''))",
              "ResourceId": {
                "Microsoft.Network/applicationSecurityGroups",
                "parameters(''sourceAn"""
```
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"
    }
  },
  "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/virtualMachineScaleSets",
        "in": parameters("allowedLocations")
      },
      {
        "field": "location",
        "in": parameters("allowedLocations")
      }
    ],
    "anyOf": [
      {
        "field": "Microsoft.Compute/imagePublisher",
        "equals": "MicrosoftWindowsServer"
      },
      {
        "field": "Microsoft.Compute/VirtualMachineScaleSets/extensionProfile.extensions[*].type",
        "notEquals": "GenevaMonitoring"
      },
      {
        "field": "Microsoft.Compute/VirtualMachineScaleSets/extensionProfile.extensions[*].value",
        "details": []
      }
    ]
  },
  "then": {
    "effect": "append",
    "details": [
      {
        "field": "Microsoft.Compute/VirtualMachineScaleSets/extensionProfile.extensions[*].value",
        "details": []
      }
    ]
  }
},
"id": "/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyDefinitions/9534973cc57db387",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "9534973cc57db387",
"properties": {
  "displayName": "nrms-nsg-subnet_1.1",
  "policyType": "Custom",
  "mode": "All",
  "metadata": {
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    "createdOn": "2019-07-08T19:20:09.005562Z",
    "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"
        }
      },
      "subscriptionExclusions": {
        "type": "Array",
        "metadata": {
          "displayName": "Subscriptions Excluded from policy due to security exceptions"
        }
      },
      "resourceGroupExclusions": {
        "type": "Array",
        "metadata": {
          "displayName": "Resource Groups Excluded"
        }
      }
    }
  }
},
"policyRule": {
  "if": {
    "allOf": [
      {
        "field": "type",
        "equals": "Microsoft.Network/virtualNetworks/subnets",
        "in": null,
        "notIn": parameters("subscriptionExclusions")
      },
      {
        "field": "name",
        "notContains": "GatewaySubnet"
      },
      {
        "field": "tags[SkipNRMSNSG]",
        "exists": false
      },
      {
        "anyOf": [
          {
            "field": "Microsoft.Network/virtualNetworks/subnets/networkSecurityGroup.id",
            "notIn": [null]
          },
          {
            "field": "Microsoft.Network/virtualNetworks/subnets/networkSecurityGroup.id",
            "exists": false
          }
        ]
      }
    ],
    "then": {
      "effect": "deployIfNotExists",
      "details": [
        {
          "type": "Microsoft.Authorization/policyAssignments",
          "name": "DoesNotExistBecauseThisIsToCauseDeployment",
          "roleDefinitionIds": ["/providers/Microsoft.Authorization/roleDefinitions/4d97b98b-1d4f-4787-88ce-b766155f2792/providers/Microsoft.Authorization/policyDefinitions/9534973cc57db387"
          ],
          "deployment": {
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              "mode": "incremental",
              "parameters": {
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                "allowedLocations": "[allowedLocations]", "variables": {
                  "vnetName": "[first(split(parameters["fullSubnetName"], "]"))]
                }
              }
            }
          }
        }
      ]
    }
  },
  "then": {
    "effect": "deployIfNotExists",
    "details": [
      {
        "type": "Microsoft.Authorization/policyAssignments",
        "name": "DoesNotExistBecauseThisIsToCauseDeployment",
        "roleDefinitionIds": ["/providers/Microsoft.Authorization/roleDefinitions/4d97b98b-1d4f-4787-88ce-b766155f2792/providers/Microsoft.Authorization/policyDefinitions/9534973cc57db387"
          ],
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          "properties": {
            "mode": "incremental",
            "parameters": {
              "fullSubnetName": "[fullSubnetName]", "type": "String",
              "allowedLocations": "[allowedLocations]", "variables": {
                "vnetName": "[first(split(parameters["fullSubnetName"], "]"))]
              }
            }
          }
        }
      }
    ]
  }
}
tworkSecurityGroups'',
variables(''nsgName''))]"}}},"resources":[{"condition":"[contains(parameters(''allowedLocations''),
resourceGroup().location)]","type":"Microsoft.Network/networkSecurityGroups","name":"[variables(''nsgName'')]",
"apiVersion":"2018-03-01","location":"[resourceGroup().location]","tags":{"Creator":"Automatically
015-01-01/deploymentTemplate.json#","contentVersion":"1.0.0.0","resources":[{"apiVersion":"2018-1101","type":"Microsoft.Network/virtualNetworks/subnets","name":"[parameters(''fullSubnetName'')]","location":"[re
sourceGroup().location]","properties":"[union(reference(resourceId(''Microsoft.Network/virtualNetworks/subnets'',
variables(''vnetName''), variables(''subnetName'')), ''2018-11-01''),
variables(''nsgUpdateJson''))]"}]}},"dependsOn":["[variables(''nsgName'')]"]}]},"parameters":{"fullSubnetName":{"
value":"[field(''fullName'')]"},"allowedLocations":{"value":"[parameters(''allowedLocations'')]"}}}}}}}},"id":"/pro
tion/policyDefinitions","name":"9644d220df7c67a"},{"properties":{"displayName":"nrms-nsg-rule105_1.2","policyType":"Custom","mode":"All","metadata":{"createdBy":"1f75b9dd-4f1d-4e80-9521321a8b1f5764","createdOn":"2019-0709T18:15:26.1317211Z","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":""},"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":"P
rotocol
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['',

Open Source Used In SDWan 20.9.1 10998




```json
parameters("tagName"),
"["])","exists":false},"["field":tags["SkipNRMSAll"]}],exists:false},{"value":subscriptionId},
"notIn":parameters(subscriptionExclusions)),"then":{"effect":deployIfNotExists,details:{"type":Microsoft.Network/networkSecurityGroups/securityRules,roleDefinitionIds:["/providers/Microsoft.Authorization/roleDefinitions/46d97b98b-1da4-4787-9a-c67384d212ce"]),"existenceCondition:{"anyOf":{"allOf":{"field":fullName,equals:[concat(field(name),"NRMS-Rule-",ruleNo)]}}}}
```

```json
```

```json
"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},direction:{"type":String},info:{"type":String}},variables:{"SourceArr":split(parameters(sourceValue),'','')},appSecGroups:{"copy":{"name":"values","count":length(variables(SourceArr)),"input":if(equals(parameters(sourceType),AppSecurity 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(parameters(fullName),"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),json(null)),\"destinationPortRanges":if(equals(1,length(parameters(destinationPortRanges))),json(null),parameters(destinationPortRanges)),\"destinationPortRange":if(equals(1,length(parameters(destinationPortRanges))),0,\[parameters(destinationPortRanges)[0],json(null)]),\"destinationAddressPrefix":\"*\",\"destinationApplicationSecurityGroups":\[\],\"access":\[\parameters(actionValue)\],\"priority":\[\parameters(ruleNo)\],\"direction":\[\parameters(direction)\]}}}],"parameters":{"fullName":field(fullName),\"ruleNo\":\"[\parameters\"(ruleNo)\]},\"destinationPortRanges":\"[\parameters\"(destinationPortRanges)\],\"protocol":\"[\parameters\"(protocol)\]",\"sourceType":\"[\parameters\"(sourceType)\],\"sourceValue":\"[\parameters\"(sourceValue)\],\"actionValue":\"[\parameters\"(actionValue)\],\"direction":\"[\parameters\"(direction)\],\"info":\"[\parameters\"(info)\]
```
The list of locations that can be specified when deploying resources.

The priority slot for the new rule.

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Open Source Used In SDWan 20.9.1  11002
Open Source Used In SDWan

20.9.1  11003
The list of locations that can be specified when deploying resources.

The priority slot for the new rule.

A description.

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For the rule.

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Open Source Used In SDWan 20.9.1

11006
policy audits whether any Linux VMs use password-only authentication for SSH on new resources.

```
"metadata":{
 "createdBy": "1f75b9dd-4f1d-4e80-9521-321a8b1f5764",
 "createdOn": "2020-02-25T22:01:41.9137032Z",
 "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),
 "]")",
 "exists": "false",
 "value": [resourceGroup().tags[parameters(ResourcetagName)]],
 "equals": ""
 },
 "field": "type",
 "equals": "Microsoft.Compute/virtualMachines",
 "anyOf":{
 "field": "Microsoft.Compute/virtualMachines/osProfile.linuxConfiguration.disablePasswordAuthentication",
 "exists": false
 },
 "field": "Microsoft.Compute/virtualMachines/osProfile.linuxConfiguration.disablePasswordAuthentication",
 "equals": "false"
 },
 "anyOf":{
 "field": "Microsoft.Compute/imagePublisher",
 "equals": "?solutions"
 },
 "field": "Microsoft.Compute/imageOffer",
 "in": ["sapp"]
 },
 "allOf":{
 "field": "Microsoft.Compute/imagePublisher",
 "equals": "128technology"
 },
 "field": "Microsoft Compute/imageOffer",
 "in": ["128t_networking_platform"]
 },
 "allOf":{
 "field": "Microsoft.Compute/imagePublisher",
 "equals": "4psa"
 },
 "field": "Microsoft.Compute/imageOffer",
 "in": ["voipnow"]
 },
 "allOf":{
 "field": "Microsoft.Compute/imagePublisher",
 "equals": "a10networks"
 },
 "field": "Microsoft.Compute/imageOffer",
 "in": ["a10-lightning-adc", "a10-vthunder-arc"]
 },
 "allOf":{
 "field": "Microsoft.Compute/imagePublisher",
 "equals": "accellion"
 },
 "field": "Microsoft.Compute/imageOffer",
 "in": ["kiteworks-by-accellion"]
 },
 "allOf":{
 "field": "Microsoft.Compute/imagePublisher",
 "equals": "abiquo"
 },
 "field": "Microsoft.Compute/imageOffer",
 "in": ["abiquo-hybrid-cloud-34"]
 },
 "allOf":{
 "field": "Microsoft.Compute/imagePublisher",
 "equals": "acctops"
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| Microsoft Compute/imagePublisher   | equals: blk-technologies                        |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["blk-1io-erc-20-rest-service"]            |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: blockapps                               |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["strato-blockchain-base-template-latest"] |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: blockstack                              |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["blockstack-core-v14"]                   |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: blackduck-foundry                      |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["syscoin-api", "syscoin-full-node", "syscoin-price-peg"] |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: brocade_communications                  |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: bt-americas-inc                         |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: buddhalabs                              |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["sles_12_pci"]                           |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: carto                                   |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["cartobuilder2"]                          |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: cask                                    |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["cdap-cloud-sandbox"]                     |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: Canonical                               |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["UbuntuServer", "Ubuntu_Core"]            |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: cavirin                                 |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["cavirin-platform"]                       |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: cautelalabs                             |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["log_management"]                        |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: celum-gmbh                              |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["celundam"]                               |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: cds                                    |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["cds-data-migration-solution-for-legacy-to-cloud"] |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: center-for-internet-security-inc        |                   |                                     |
| Microsoft Compute/imagePublisher   | equals:.certivoxy                               |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["soo-test"]                               |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: cfd-direct                              |                   |                                     |
| Microsoft Compute/imageOffer       | in: ["cfd-direct-from-the-cloud"]               |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: chain                                  |                   |                                     |
| Microsoft Compute/imagePublisher   | equals: chain                                  |                   |                                     |

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click-secured-joomla-on-ubuntu-1604-lts","1-click-secured-joomla-on-ubuntu-1804-lts","centos-6-9","centos-7-3","centos-7-4","centos-7-5","deploy-a-secured-modx-on-ubuntu-14-04-lts","deploy-a-secured-silverstripe-on-ubuntu-14-04-lts","hardened-mysql-5-6-on-centos-7-3","hardened-mysql-5-6-on-ubuntu-1404-lts","hardened-mysql-5-7-on-centos-7-3","hardened-mysql-5-7-on-ubuntu-1404-lts","hardened-postgresql-on-ubuntu-1404-lts","invoice-jinja-2-5-1-1-on-ubuntu-1404","jruby-on-ubuntu-14-04-lts","low-latency-broadcasting-server-for-live-events","owncloud-9-with-lamp-stack-on-ubuntu-1404","piwigogallerys-ubuntu_14_04_lts","sec1011-dokukiwi-on-ubuntu-1404","sec1013-elasticsearch-on-ubuntu-1404","sec1014-openpcart-on-ubuntu-1404","sec1015-orangehrm-on-ubuntu-1404","sec1016-nodejs-server-on-ubuntu-1404","sec1018-haproxy-on-ubuntu-1404","sec1019-secured-tomcat-on-ubuntu-1404","sec1020-phpbb-on-hardened-ubuntu-1404","sec1021-mybb-on-hardened-ubuntu-1404","sec1022-sugarcrm-on-ubuntu-1404","sec1023-moodle-on-ubuntu-1404","sec1024_magento-on-ubuntu-1404","sec1025-secured-drupal-on-centos","sec1027-secured-wordpress-on-ubuntu-1404","sec1028-secured-lamp-sever-on-ubuntu-1404","sec1029-secured-mediawiki-on-ubuntu-1404","sec1030-secured-subversion-on-ubuntu-1404","sec1031-secured-passenger-nginx-on-ubuntu-1404","sec1033-secured-piwik-on-ubuntu-1404","sec1034-secured-pligg-on-ubuntu-1404","sec1035-secured-jenkins-on-ubuntu-1404","sec1036-secured-postgresql-on-ubuntu-1404","secure-cloud-lamp-ubuntu-1404","secured-abantecart-on-centos","secured-abantecart-on-ubuntu-14-04-lts","secured-acquia-drupal-on-centos","secured-acquia-drupal-on-ubuntu-14-04-lts","secured-apachesolr-on-centos","secured-apachesolr-on-ubuntu-14-04-lts","secured-artifactory-on-centos","secured-artifactory-on-ubuntu-14-04-lts","secured-cakephp-on-centos","secured-cakephp-on-ubuntu-14-04-lts","secured-cms-made-simple-on-centos","secured-cms-made-simple-on-ubuntu-14-04-lts","secured-codiad-on-centos","secured-codiad-on-ubuntu-14-04-lts","secured-cogdam-on-centos","secured-cogdam-on-ubuntu-14-04-lts","secured-concrete5-on-centos","secured-concrete5-on-ubuntu-14-04-lts","secured-coppermine-on-centos","secured-coppermine-on-ubuntu-14-04-lts","secured-crudftp-on-centos","secured-crudftp-on-ubuntu-14-04-lts","secured-djangocms-on-centos","secured-djangocms-on-ubuntu-14-04-lts","secured-dolibarr-on-centos","secured-dolibarr-on-ubuntu-14-04-lts","secured-drupal-on-centos","secured-drupal-on-ubuntu-14-04-lts","secured-elmsearch-on-centos","secured-enterprise-nginx-varnish-haproxy-php","secured-espocrm-on-centos","secured-espocrm-on-ubuntu-14-04-lts","secured-exoplatform-on-centos","secured-exoplatform-on-ubuntu-14-04-lts","secured-ghost-on-centos","secured-ghost-on-ubuntu-14-04-lts","secured-gravle-on-centos","secured-gravle-on-ubuntu-14-04-lts","secured-haproxy-on-centos","secured-invoice-jinja-on-centos","secured-jboss-as-on-centos","secured-jbossas-on-ubuntu-14-04-lts","secured-jenkins-on-centos","secured-jruby-on-centos","secured-lamp-on-centos","secured-lamp-on-centos-m10","secured-lapp-on-centos","secured-lapp-on-ubuntu-14-04-lts","secured-lemmp-sever-on-ubuntu-1404","secured-lime-survey-on-centos","secured-limesurvey-on-ubuntu-1404","secured-livehelperchat-on-centos","secured-livehelperchat-on-ubuntu-14-04-lts","secured-magento-on-centos","secured-magento-on-ubuntu-14-04-lts","secured-mahara-on-centos","secured-mahara-on-ubuntu-14-04-lts","secured-mantis-on-centos","secured-mantis-on-ubuntu-14-04-lts","secured-mariadb-on-centos","secured-mariadb-on-ubuntu-16-04","secured-mautic-on-centos","secured-mautic-on-ubuntu-14-04-lts","secured-media-wiki-on-centos","secured-modx-on-centos","secured-moodle-on-centos","secured-nginx-on-centos","secured-nginx-on-ubuntu-14-04-lts","secured-noalyss-on-centos","secured-noalyss-on-ubuntu-14-04-lts","secured-occlass-on-centos","secured-occlass-on-ubuntu-14-04-lts","secured-open-cart-on-centos","secured-open-cart-on-ubuntu-14-04-lts","secured-orangehrm-on-centos","secured-orangehrm-on-ubuntu-14-04-lts","secured-oxid-eshop-on-centos","secured-oxid-eshop-on-ubuntu-14-04-lts","secured-owncloud-on-centos","secured-owncloud-on-ubuntu-14-04-lts","secured-piwigo-on-centos","secured-piwigo-on-ubuntu-14-04-lts","secured-phpbb-on-centos","secured-phpbb-on-ubuntu-14-04-lts","secured-phpbb-on-ubuntu-1404","secured-phpbb-on-ubuntu-1604-lts","secured-postgresql-on-centos","secured-postgresql-on-ubuntu-14-04-lts","secured-powerpoint-on-centos","secured-powerpoint-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-redmine-on-ubuntu-1404-lts","secured-report-server-on-centos","secured-reportserver-ubuntu-14-04-lts","secured-resource-space-on-centos","secured-resource-space-on-ubuntu-14-04-lts","secured-roundcube-on-centos","secured-roundcube-on-u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- nosniff
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  code: 200
  message: OK
- request:
  body: 'b"b\"{"properties": {"policyDefinitionId": "/subscriptions/00000000-0000-0000-0000-000000000000/providers/Microsoft.Authorization/policyDefinitions/pypolicyea4a13f0" }\"""
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  - 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
  uri: https://management.azure.com/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0/providers/Microsoft.Aauthorization/policyAssignments/pypolicyassignmentea4a13f0?api-version=2019-09-01
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"}
headers:
  cache-control:
  - no-cache
  content-length:
  - '794'
  content-type:
  - application/json; charset=utf-8
  date:
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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 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.
C+AI Subscriptions must have a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs for more details.

HDInsight 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.
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.

All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/ngs for more details.
entralus","westus","eastasia","australiacentral","australiaeast","canadacentral","northeurope","centralindia","japanea
st","koreacentral","uksouth","centralus","eastus","westus2","francecentral","southafricanorth","germanynorth","nor
wayeast","switzerlandnorth","uaenorth","southeastasia","australiacentral2","australiasoutheast","canadaeast","weste
urope","southindia","japanwest","koreasouth","ukwest","eastus2","southcentralus","brazilsouth","westindia","france
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aka.ms/cainsgpolicy"},"destinationPortRanges":{"value":["*"]},"protocol":{"value":"*"},"sourceType":{"value":"I
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133/32,104.44.112.128/25,104.44.111.128/26,52.191.237.247/32,52.191.220.88/32,52.188.221.200/32,52.151.243.2
29/32,52.148.118.116/32,52.224.187.226/32,40.91.115.44/32,40.91.114.244/32,40.91.95.146/32,40.91.93.196/32,40
.91.94.53/32,40.91.77.216/32,40.119.207.69/32,66.119.150.192/26,191.234.97.0/26,131.107.132.16/28,131.107.132
.32/28,131.107.174.0/24,131.107.160.0/24,131.107.159.0/24,131.107.147.0/24,167.220.237.128/27,167.220.226.0/2
.220.76.192/26,167.220.80.192/26,167.220.77.64/26,167.220.81.128/26,167.220.65.0/27,167.220.81.192/26,167.22
,157.58.192.0/20,157.58.196.64/27,157.58.198.15/32,65.55.188.128/25,65.55.188.132/32,65.55.188.131/32,65.55.1
88.129/32,65.54.12.64/26,94.245.87.0/24,207.46.217.128/25,207.46.216.128/25,207.46.216.226/32,207.46.216.225/
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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":"2020-0224T21:28:34.1091048Z","updatedBy":"1f75b9dd-4f1d-4e80-9521-321a8b1f5764","updatedOn":"2020-0309T21:14:14.8874054Z"},"enforcementMode":"Default"},"identity":{"principalId":"985bb80e-8113-4542-8d68-

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v014,"location":"eastus2"],["sku":{"name":"A0","tier":"Free"},"properties":{"displayName":"nrms-nsg-rule-104_1.3","policyDefinitionId":"/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ec-b76615f52792/providers/Microsoft.Authorization/policyDefinitions/bac0f65020410a4","scope":null,"providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ec-b76615f52792","parameters":null,"location":"eastus2"},"sku":{"name":"A0","tier":"Free"},"properties":null}
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: ["22", "3389"], protocol: ["Tcp"], sourceType: ["Service"], sourceValue: ["Internet"], actionValue: ["Deny"], direction: ["Inbound"], tagname: ["SkipNRMSRDPPSSH"], subscriptionExclusions: ["value": "61868ab8-16d4-44ec-a9ff-f35dd0592247", "41e39aca-7-6cde-4be7-87c3-d57a1687b9b2", "235d341f-7fb9-435c-9bdc-034f7b36c9b4", "239bf31a-daac-42b5-918e-012f4780e0d0b054", "12f44720-8952-42b5-c8b7-2883c12de639", "c36fd9e7-c5b1-4de3-bb85-2e538040258b", "243b67d4-60ca-4ddf-a556-216ee06f77a1", "24a0af-2b0a-4a1a-9929-bed71bdad59", "b4582baf-35d9-47b9-b03d-1bd126876221", "65f79f17-cb4e-4b51-82b7-436f505fc62", "95c2a63e-4eb2-4649-bb23-5ed01707cee80", "1533031f-9510-4d8d-8183-a914d45f4d3c", "73df52f2-e03-4c91-8aed-2bf32c8e151f", "866f87e7-564b-4005-912c-b1a3a29a28ec", "973d790-8d82-f240-b579-39e9e6b0cb45", "179be307-0377-46c0-a8b9-17d35782d66", "6c516c4-f1378-4780-bc52-dd1d098a9c0b", "ccce5d36-a80d-4878-addr-5204a7efa20", "b0f83929-3a19-a496-87da-2b3c3acaaf7d", "ad7af7436-4600-48c0-cd02f8333e0c", "0cfe98e1-3c6f-41ca-9f54-435d1ddaf0de", "ce6570fa-18b1-4503-80d9-4a225591a428", "2844467-7c1e-42f0-a667-d68df1255cc4", "ff7f0204-c-d5a1-48e8-86eb-d61f06f08f", "b0d7f893-d91-4be-ac1a-309d9663d3", "6f6co04-4cb9-4974-8153-56a66fe66ca8", "7fa88baf-25dc-4cb2-427a-ec7785c066", "bafbb4e-3a9b-460a-984b-43be1da22", "a2ab41a-4d4d-4fb8-bb87-5d8eb06d880d", "7e7b7a6f-0b34-3d4b-958d-ece489b419f", "964c100b-8a6c-43c-83-d3-63b186c7305", "7b2b9b4-8391-d457-8045-b34af92e5108", "37060ca-3d47-eade-a432-3e1a337dd56c", "7856c8b-484f-2b2a5-bfaa7f8c34a1", "94ec3d9bb-5d4b-4352-4e6f-44f5-c3052d64e3ce", "0f8e98e-4144-4af6-86b8-ffcb1f1ea200", "89ec9f08-bf0e-43a5-ac2d-b6c4666ef9f6", "b8fe6c6e-8008-4d50-b4a4-1d110384c62f", "45493131-fe6f-4c8b-80e9-fddada0255a", "9c8295ef-4b7-94db-90aa-50837ede607", "0de0b267-8412-463f-a0e7-187770307e27", "7f31cb08-b59-4129-b158-812f1795bd0", "36b5bfe-bdb0-47a9-96ec-a76599ade3514", "825dd53e-1-4df-496-86eb-bbab4c60b7a7", "477d5b5bef1-4c35-8b8d-4266ef992d25", "0cd887bf-5af0-405b-8d48-b20495af7b", "4529a25b-fc62-41d0-a101-60fbaa38086", "3ae1ab9b-5849-4409-b744-58ba98878274", "88d8d365-2fab-415f-86e2-712d989871b2", "1ef66f7e-
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/cainsgppolicy, destinationPortRanges: ["value": ["23", "135", "445", "5985", "5986"]], protocol: ["TCP"]

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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.
NOT DELETE - Will result in ICM Sev 2 - Azure Core Security, see aka.ms/cainsgpolicy

"st","koreacentral","uksouth","centralus","eastus","westus2","francecentral","australiasoutheast","canadastar","westeurope","southindia","japanwest","koreasouth","ukwest","eastus2","southcentralus","brazilsouth","westindia","francesouth","southafricawest","germanywestcentral","norwaywest","uaecentral","switzerlandwest","global","brazilus","indiasouth","indiawest","indiacentral","uknorth","uksouth2"]}}

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"value":108
}

"info":{
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}

"protocol":{
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}

"sourceType":{
"value":"Service Tag"
}

"sourceValue":{
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}

"actionValue":{
"value":"Deny"
}

"direction":{
"value":"Inbound"
}

"tagna me":{
"value":SkipNRMSHigh
}

"subscriptionExclusions":{
"value":[]
}
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/caisngpolicy
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 a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs for more details.

C+AI Subscriptions must have an 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.
b766155f2792/providers/Microsoft.Authorization/policyDefinitions/789cfe919e1858","scope":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b766155f2792","parameters":{"allowedLocations":{"value":["centraluseuap","eastus2euap","westcentralus","northcentralus","westus","eastasia","australiacentral","australiaeast","canadacentral","northeurope","centralindia","japaneast","koreacentral","uksouth","centralus","eastus","westus2","francecentral","southafricanorth","germanynorth","norwayeast","switzerlandnorth","uvaenorth","southeastasia","australiaeastcentral2","australiaseastcentral","canadaseast","westeurope","southindia","japanwest","koreasouth","ukwest","eastus2","southcentralus","brazilsouth","westindia","francesouth","southafricaeastcentral","norwaywest","uacentral","switzerlandwest","global","brazilus","indiasouth","indiaeastcentral","uknorth","uksouth2"]},"effect":{"value":"Audit"},"description":"All C+AI Subscriptions must have a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs for more details","metadata":{"createdBy":"1f75b9dd-4f1d-4e80-9521-321a88b1f5764","createdOn":"2020-02-24T19:34:02.1062104Z","updatedBy":"1f75b9dd-4f1d-4e80-9521-321a88b1f5764","updatedOn":"2020-03-09T21:14:06.0476055Z"},"enforcementMode":"Default"},"id":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyAssignments/NRMS-SBNT-AUDT-NSG-v013","type":"Microsoft.Authorization/policyAssignments","name":"NRMS-SBNT-AUDT-NSG-v013"},{"sku":{"name":"A0","tier":"Free"},"properties":{"displayName":"nrms-nsg-subnet_1.2","policyDefinitionId":"/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyDefinitions/852aeb0ee2c0a3a5","scope":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b766155f2792","parameters":{"allowedLocations":{"value":["centraluseuap","eastus2euap","westcentralus","northcentralus","westus","eastasia","australiacentral","australiaeast","canadacentral","northeurope","centralindia","japaneast","koreacentral","uksouth","centralus","eastus","westus2","francecentral","southafricanorth","germanynorth","norwayeast","switzerlandnorth","uvaenorth","southeastasia","australiaeastcentral2","australiaseastcentral","canadaseast","westeurope","southindia","japanwest","koreasouth","ukwest","eastus2","southcentralus","brazilsouth","westindia","francesouth","southafricaeastcentral","norwaywest","uacentral","switzerlandwest","global","brazilus","indiasouth","indiaeastcentral","uknorth","uksouth2"]},"subscriptionExclusions":{"value":["61868ab8-16d4-44ec-a9ff-f35d05922847","41c39ac7-6cde-4be7-87c3-d57a168b7b92","235d341f-7f9b-435c-9bdc-034b7f3c99f6","239bf3f1-daab-4125-918c-f02880debd54","12f4f472-8952-4252-bb7d-28831c2de639","c36d9de7-c58b-4d3e-bb85-2e538040258b","243b67d4-60ca-4dff-a556-216ee6f77a1","24ae0a2f-2eb0-4a1a-9929-bed71bad059","
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"866df8d7-564b-4005-912c-b1a3a9a286ec","97ad7d90-86d2-f420-b579-39eeb06b0cb5","179be307-0377-46c0-a8bb-17437582d266","6c516e14-f378-4780-bc52-dd10d989ac08","cc5e13d6-3a80-4887-add9-5204a7efd2a0","0bf83929-3a19-4a96-87da-b23c3aca7fd7","ad7af743-6a6a-480e-9cde-e022f833d0ce","0cfe98e1-3cfc-41ca-9f54-4351d1ddaf0de","cc6570f8-18b-4503-809d-4a225591a428","4bf84467-7c1f-42f0-a6b7-d6df1255cc4","ff78024c-d5a8-8eae-6bdf-6d0f60ff88","b7dd6b93-d1e4-beac-14a-309ed6f633","6fe0c04c-acb9-f474-8153-56afe6666c8","7fa88fd8-252c-4b22-a73e-cd77f85c66","
"babf24e9-f4bb-4a0-989b-4b3e12dab22","aa411af-ed4-4d0-2bb-7de8b00d880d","7eb7a6f-0b3d-4-958d-ec4e89b419","
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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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cache-control:
  - no-cache
content-length:
  - '131217'
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
transfer-encoding:
  - chunked
vary:
  - Accept-Encoding
x-content-type-options:
  - nosniff
status:
  code: 200
  message: OK
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
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  body:
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orwayeast","switzerlandnorth","uaenorth","southeastasia","australiacentral2","australiasoutheast","canadaeast","wes
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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 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.
C+AI Subscriptions must have a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs for more details. All N+AI Subscriptions must have a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs 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.

HDInsight 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.
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.

All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.
102.1.3","policyDefinitionId":"/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b76615ff2792/providers/Microsoft.Authorization/policyDefinitions/7c066e9166289efb","scope":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b76615ff2792","parameters":{"allowedLocations":{"value":[]}},"policyDefinitionId":/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b76615ff2792,"ruleNo":"102","info":"Created by Azure Core Security managed policy, rule can be deleted but do not change source ips, please see aka.ms/cainsgpolicy","destinationPortRanges":{"value":[]},"protocol":{*},"sourceType":{"value":"IP Addresses"},"sourceValue":{"value":[]},"actionValue":{"value":"Allow"},"direction":{"value":"Inbound"},"tagname":{"value":"SkipNRMSCorp"},"subscriptionExclusions":{"value":[]},"description":"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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NOT DELETE - Will result in ICM Sev 2 - Azure Core Security, see aka.ms/cainsgpolicy

- **Tag**: Open Source Used In SDWan
- **Policy Definition Id**: /providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyDefinitions/91f42c0ca66ff7dd
- **Scope**: /providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b766155f2792
- **Allowed Locations**: centraluseuap, eastus2euap, westcentralus, northeasteurope, centralindia, japaneast, koreacentral, uksouth, centralus, westus2, francecentral, southafricanorth, germanynortheast, norwayeast, switzerlandnortheast, eastus2euap, switzerlandeast, westu رسول, southindia, vmsouth, westus2, southcentralus, northindia, westus2, vmsouthwest, switzerlandwest, global, brazilus, indiasouth, indiawest, indiacentral, uknorth, vmsouth2
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- **Action Value**: Deny
- **Direction**: Inbound
- **Scope**: Subscription Exclusions: [61868ab8-16d4-44ec-a9ff-f53dd05922847, 41c39ac7-e6ce-4be7-87c3-d57a168b7b92, 235dd41f-7fb9-435c-9bde-0348b7306c9b, 239bf31a-daab-4125-918c-0f28b8ed0b54, 12f44720-8952-422c-bb7d-288352c2e639, c36fd9e7-e5b1-4d3e-b2f6-4649-bb23-5ed01077ce80, 1533031f-9510-4d8f-8f3a-9ad94fd54d34, 73d259f2-e073-4c91-8aed-2fb23e8e151f, 86df68d7-564b-4005-912c-b1a3a92a86ce, 79a7d390-8d62-4f20-b579-39ee66bcb45, 179be307-0377-4e6c-a088-17437852d266, c651c16-4738-4780-bc52-dd1d90ba99c0, ccf5e1d6-8a08-4878-add9-520de7a2-9bc3a3aca7d7, ad7af74-3a6b-480e-98cd-0e2f2833d30c, oce99f8e-41a1-9c1f-545a-435d1ddaf0de, ce6570fa-18b8-4503-80d9-4a22559a1a28, 3c1f9ac7-76c3-4a6b-d68f1255cc4, ff770804-c51a-48ae-8e8eb-d61ff06f88f, b7df8793-d9d1-4aea-ac14-30a39ed663d3, 6ec0f0c-ac9b-4f74-8153-56ac6b666ca8, 7fa88f9d-252c-42b2-a73e-cc77f85ca66, babfb4-49f9-460a-9831-42d1dab2a2e, aab411af-4ed4-4f02-bb87-5de8b00dd80d, 7e7b7a6f-03d4-4df9-958d-4e8c489b419f, 96e4c10b-8a6c-43bc-83d3-6b1386c7305, 7b29b4ae-8391-4d57-8045-b34a092e5108, 43706ca0-34d7-e4de-3a32-3ca137dd556, 7856c6bf-e1a8-4f82-2ba2-bf4a78c3a41, 4e93ed89-bbd8-4545-844e-e35026c64e44, 8cad7e7-ae41-4af8-86eb-ffcb11fae200, 8e9e0c0f-bf6e-43a5-acd2-b6c4666f9f6, b8fc6e8-6802-4605-b4a5-1d131084ce6f, 4549313f-fe64-4cb1-80e9-f0dadaa0255a, 9e829f5e-4b79-94db-90a0-50f837dc60b7, ed0b2672-8412-463f-a0c1-18677307de27, f31fcb9a-589-4129-b158-817a3995bd0, 368bbf8b-4f7a-9e6c-a769a3e51d8, 824d553e-1df6-49f6-86bc-bab2c46b067a, 4775bb5b-be14-35b8-bb4-4df6ee992d5, 0ced87ff-5af0-405b-8d48-b20495af57b, 4259a25-bc62-41d0-a101-60baa38086, 3ea1ab9b-5849-4409-b744-58ba98878274, 8dd83365-24bf-41f6-862e-7129d98971b2, 1ef67f6fe-7981-498b-4c89-b67109df0d0f, e9b995386-3894-4820-9dc6-30a44befa8b, 9fe811224-18f1-4474-80b5-bd6b832f0b73, f0b97671-152e-45cc-a831-73fd5ca8740, d4c1893d-adf1-4111-aaa9-3d55a4059b9, 2d3ea1e9-269c-4fd1-8188-21e4bf9df2d4, 1276b3e1-8812-4435-82f9-9e57f9309e19, 38ce4979-e385-48e6-b6ee-c24b92f705be, 2843d96-7d25-4cf5-8e67-81bad5f2bd7, a531a44-204-406e-ba1a-85ba0359f602, b835f458-560c-49c2-8781-43d92dd9d9, e4d282e-4b3c-4387-832a-e3c61ea576bd, af87edc5-7fe2-4698-7fbf-2e4b4f2fe4db, 266dd535-5164-443d-821f-4c695ca7f688, d862948f-6520-45ff-816f-123309de4e4e, ff9e61af-1f78-4d4c-94-34346d9f60b, 386b8a5-8658-450f-5bfa-1800e2cd049, 28f78a5e-97b2-487e-b097-270de10ce6b8, 6ec048bd-2cc6-47fe-a558-ca54083d537e, 626c3d9a-b8ab-47e7-8df1-be097fbb25a, 48aaec1e-8a88-4057-a5d5-77f60a665f1d, b309d9bd-c07f-405f-902c-3eab08eb0e00, aa853811-0720-4837-b0f8-6046c80b2763, 76e6898c-868d-490f-8f91-0eafa67c7a8f0, 816ee6f-e179-487e-a515-813400c95c5, aeea528b-2620-42a7-bbe8-17b698d42530, 9c870d45-05df-46bb-99b5-63a57536320a, 364eaae-caae-4c6d-86df-b70153556229, 5d3f636b-64c6-45fa-9253-99fc92fa5e5d, 67b7b20bf-f54b-4a3d-9961-c85f8e94b67, 875bd0a7-
All 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.

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.
 NOT DELETE - Will result in ICM Sev 2 - Azure Core Security, see aka.ms/cainsgpolicy
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/caignspolicy. 

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C+AI Subscriptions must have predefined C+AI NSG rules. 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.
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- '162'
Content-Type:
- application/json; charset=utf-8
User-Agent:
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  msrest_azure/0.6.2 azure-mgmt-resource/10.0.0 Azure-SDK-For-Python
accept-language:
- en-US
method: PUT
uri: https://management.azure.com/subscriptions/00000000-0000-0000-0000-
  000000000000/resourceGroups/test_mgmt_resource_policy_test_policy_definitionea4a13f0/providers/Microsoft.Au
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- Fri, 05 Jun 2020 02:26:22 GMT
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- no-cache
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- max-age=31536000; includeSubDomains
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- 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
msrest_azure/0.6.2 azure-mgmt-resource/10.0.0 Azure-SDK-For-Python
accept-language:
- en-US
method: DELETE
response:
body:
string: '{"properties":{"policyType":"Custom","mode":"Indexed","description":"Don''t
create a VM anywhere","metadata":{"createdBy":"123743cc-88ef-49ee-920e13958fe5697d","createdOn":"2020-0605T02:26:18.6776083Z","updatedBy":null,"updatedOn":null},"policyRule":{"if":{"allOf":[{"source":"action","equ
als":"Microsoft.Compute/virtualMachines/write"},{"field":"location","in":["eastus","eastus2","centralus"]}]},"then"
:{"effect":"deny"}}},"id":"/subscriptions/00000000-0000-0000-0000000000000000/providers/Microsoft.Authorization/policyDefinitions/pypolicyea4a13f0","type":"Microsoft.Authoriz
ation/policyDefinitions","name":"pypolicyea4a13f0"}'

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headers:
- cache-control: no-cache
- content-length: 631
- 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: 14997

status:
- code: 200
- message: OK

version: 1

Found in path(s):
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-azure-mgmt-resource-10.0.0/tests/recordings/test_mgmt_resource_policy.test_policy_definition.yaml
No license file was found, but licenses were detected in source scan.

# Copyright (c) Microsoft Corporation. All rights reserved.
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Found in path(s):
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-azure-mgmt-resource-10.0.0/azure/mgmt/resource/deploymentscripts/v2019_10_preview/_configuration.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-azure-mgmt-resource-10.0.0/azure/mgmt/resource/features/v2015_12_01/operations/_features_operations.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-azure-mgmt-resource-10.0.0/azure/mgmt/resource/policy/v2019_09_01/_configuration.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-azure-mgmt-resource-10.0.0/azure/mgmt/resource/resources/v2018_05_01/models/__init__.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-azure-mgmt-resource-10.0.0/azure/mgmt/resource/subscriptions/v2019_06_01/operations/__init__.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-azure-mgmt-resource-
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10.0.0/azure/mgmt/resource/resources/v2019_07_01/_resource_management_client.py
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10-0-0-zip/azure-mgmt-resource-
10.0.0/azure/mgmt/resource/resources/v2019_07_01/operations/_deployments_operations.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: azpysdkhelp@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.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.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_scope
- Added operation DeploymentsOperations.create_or_update_at_tenant_scope
- Added operation DeploymentsOperations.list_at_tenant_scope
- Added operation DeploymentsOperations.delete_at_scope
- Added operation DeploymentsOperations.cancel_at_tenant_scope
- Added operation DeploymentsOperations.list_at_scope
- Added operation DeploymentsOperations.get_at_scope
- Added operation DeploymentsOperations.export_template_at_tenant_scope
- Added operation DeploymentsOperations.validate_at_scope
- Added operation DeploymentsOperations.delete_at_tenant_scope
- Added operation DeploymentsOperations.export_template_at_scope
- Added operation DeploymentsOperations.validate_at_tenant_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` (import 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 2017-06-01-preview and 2016-12-01 and has no external API breaking.

**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
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
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

Found in path(s):
1.995 neo4j-data-collector 4.1.7

1.995.1 Available under license:

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Found in path(s):
* /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
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/convert/TransformWriteField.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/StringL.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/util/proxy/SerializedProxy.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/Javac.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/ClassPath.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-
jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/analysis/ControlFlow.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/AccessFlag.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/SerialVersionUID.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/InstructionPrinter.java
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* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/stackmap/BasicBlock.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/Callback.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/Runtime/Inner.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/ClassFilePrinter.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/CtArray.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/ConstantAttribute.java
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/ArrayMemberValue.java
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* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/BooleanMemberValue.java

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1.1005 protobuf-java 3.0.0

1.1006 jbossws-cxf-resources 5.4.1.Final
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--------------------------------------------------------------------------------

<h3>5. Time Zone Database</h3>

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7. Database Ownership

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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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 $@ $<
## Dependency rules

$.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n sed \"s/(\$*\)/\o[ \:*\o[@ : /g\" > $@; \\
 [ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n sed \"s/(\$*\)/\o[ \:*\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

1.1011 snappy-java 1.1.7

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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>
public class Version {

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <CODE>&lt;B&gt;Xalan&lt;/B&gt; &lt;B&gt;Java&lt;/B&gt; v.r[.dd] &lt;B&gt;D&lt;/B&gt;nn]&lt;/CODE&gt;.
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */

public static String getVersion() {
}

/**
 * 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, e.g.,
 *   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.

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):
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*/
/*
$Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */
public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn\]<CODE>. *
 * Futurework: have this read version info from jar manifest.
 * *
 * @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: 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.
 */

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.
 */

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;
    }
}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
No license file was found, but licenses were detected in source scan.
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 * limitations under the License.
 */

/**
 * 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.
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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 * limitations under the License.
 */

/*
 * $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
 */

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.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xml.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;

        return new StepPattern(axis, nodeType, predicates);
    } else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();

        return new StepPattern(axis, nodeType, predicates);
    }
else {
    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))));
        }

        // 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);
    }
    return null;
}
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 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
{: RESULT = 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
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.insertElementAt(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 {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*//step'
    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()/'
        // 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 instanceof Step) {
    RESULT = (Step)ntest;
} else {
    RESULT = new Step(Axis.CHILD,
                       parser.findNodeType(Axis.CHILD, ntest),
                       null);
}

| NodeTest:ntest Predicates:pp |
| : Result = new Step(Axis.CHILD,
                       parser.findNodeType(Axis.CHILD, ntest),
                       pp); |

| AxisSpecifier:axis NodeTest:ntest Predicates:pp |
| : Result = new Step(Axis.CHILD,
                       parser.findNodeType(Axis.CHILD, 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 |
| ATTRIBUTE   | RESULT = new Integer(Axis.ATTRIBUTE); : |
| CHILD       | RESULT = new Integer(Axis.CHILD); : |
| DESCENDANT  | RESULT = new Integer(Axis.DESCENDANT); : |
| DESCendantOrSelf | RESULT = new Integer(Axis.DESCendantOrSelf); : |
| FOLLOWING   | RESULT = new Integer(Axis.FOLLOWING); : |
| FOLLOWingsibling | RESULT = new Integer(Axis.FOLLOWingsibling); : |
| NAMESPACE   | RESULT = new Integer(Axis.NAMESPACE); : |
| PARENT      | RESULT = new Integer(Axis.PARENT); : |
| PRECEDING   | RESULT = new Integer(Axis.PRECEDING); : |
| PRECEDingsibling | RESULT = new Integer(Axis.PRECEDingsibling); : |
| SELF        | RESULT = new Integer(Axis.SELF); : |

AbbreviatedStep ::= DOT
    { : RESULT = new Step(Axis.SELF, NodeTest.Anode, null); : }

| DDOT        | RESULT = new Step(Axis.PARENT, NodeTest.Anode, null); : |

FilterExpr ::= PrimaryExpr:primary
    { : RESULT = primary; : }

| PrimaryExpr:primary Predicates:pp        | RESULT = new FilterExpr(primary, pp); : |

PrimaryExpr ::= VariableReference:vr
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);

| INT:num |
| : long value = num.longValue();
| if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) { RESULT = new RealExpr(value); |
| else { |
| if (num.doubleValue() == -0) |
|     RESULT = new RealExpr(num.doubleValue());
| else if (num.intValue() == 0) |
|     RESULT = new IntExpr(num.intValue());
| else if (num.doubleValue() == 0.0) |
|     RESULT = new RealExpr(num.doubleValue());
| else |
|     RESULT = new IntExpr(num.intValue());
| } |
| : }

| REAL:num |
| : RESULT = new RealExpr(num.doubleValue()); |

| FunctionCall:fc |
| : RESULT = fc; |
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);
}
}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
| { |
|     if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) |
|         RESULT = new ConcatCall(fname, argl); |
|     } |
|     else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) |
|         RESULT = new NumberCall(fname, argl); |
|     } |
|     else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) |
|         parser.setMultiDocument(true);
|         RESULT = new DocumentCall(fname, argl); |
|     } |
|     else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) |
|         RESULT = new StringCall(fname, argl); |
|     } |
|     else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) |
|         RESULT = new BooleanCall(fname, argl); |
|     } |
|     else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) |
|         RESULT = new NameCall(fname, argl); |
|     } |
|     else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) |
|         RESULT = new GenerateIdCall(fname, argl); |
|     } |
|     else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) |
|         RESULT = new NotCall(fname, argl); |
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.getQName(Constants.TRANSLET_URI, "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("decendant"); : } |

| DESCENDANTORSELF |
| { RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); : } |
Following
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

Following-Sibling
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

Namespace
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

Parent
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

Preceding
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

Preceding-Sibling
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

Self
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

Id
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/xpath.cup

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// is found, then throw a special exception in order to terminate
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 */

/*
 * Execute the proprietary document-location() function, which returns
 * a node set of documents.
 * @xsl.usage advanced
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2.7.2-sources.jar/org/apache/xalan/processor/TransformerFactoryImpl.java

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2.7.2-sources.jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2.7.2-sources.jar/org/apache/xalan/processor/TransformerFactoryImpl.java

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 */

/*
 * Execute the proprietary document-location() function, which returns
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 * @xsl.usage advanced
 */

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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;

void initialize() {
    last = -1;
}

static boolean isWhitespace(int c) {
    return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
}
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    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.DSLSH:
            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.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-u00F6|u00F8-u00FF|u0100-u0131|u0134-ľ|u0141-u0148|u014A|u017E|u0180|u01C3|u01CD|u01F0|u01F4|u01F5|u01FA|u0217|u0250-ʨ|u02BB|u02C1|u0386|u0388-|u038A|u038C|u038E-|u03A1|u03A3-|u03CE|u03D0-ϖ|u03DC|u03DE|u03E0|u03E2-|u03F3|u0401-|u040C|u040E-|u044F|u0451-|u045C|u045E-ҁ|u0490-|u04C4|u04C7-|u04C8|u04CB-|u04CC|u04D0-|u04EB|u04EE-|u04F5|u04F8-|u04F9|u0531-Ֆ|u0559|u0561-|u0586|u05D0-|u05EA|u05F0-|u05F2|u0621-|u063A|u0641-|u064A|u0671-|u06B7|u06B9-ھ|u06D5|u06DD|u06F5-|u06F8|u0939|u093D|u0958-|u0961|u0985-ঌ|u098F-|u0990|u0993-|u09A8|u09AA-|u09B0|u09B2|u09B6-|u09B9|u09DC-|u09DD|u09DF-ৡ|u09F0-|u09F1|u0A05-|u0A0F-|u0A10|u0A13-|u0A28|u0A2A-|u0A30|u0A32-|u0A33|u0A35-ਸ਼|u0A38-|u0A39|u0A59-|u0A5C|u0A5E|u0A72-|u0A74|u0A85-|u0A8B|u0A8D|u0A8F-|u0A91|u0A93-ન|u0AB2-|u0AB3|u0AB5-|u0AB9|u0ABD|u0AE0|u0B05-|u0B0C|u0B0F-|u0B10|u0B13-ନ|u0B2A-|u0B30|u0B32-|u0B33|u0B36-|u0B39|u0B3D|u0B5C-|u0B5D|u0B5F-|u0B61|u0B85-ஊ|u0B8E-|u0B90|u0B92-|u0B95|u0B99-|u0B9A|u0B9C|u0B9E-|u0B9F|u0BA3-த|u0BA8-ப|u0BAE-|u0BB5|u0BB7-|u0BB9|u0C05-|u0C0C|u0C0E-|u0C10|u0C12-|u0C28|u0C2A-|u0C33|u0C35-హ|u0C60|u0C61|u0C85-|u0C88|u0C8E-|u0C90|u0C92-|u0CA8|u0CAA-|u0CB3|u0CB5-ಹ|u0CDE|u0CEO-|u0CE1|u0D05-|u0D0C|u0D0E-|u0D10|u0D12-|u0D28|u0D2A-|u0D39|u0D60-ൡ|u0E01-|u0E02|u0E30|u0E32-|u0E33|u0E40-|u0E45|u0E81-|u0E82|u0E84|u0E87-ຈ|u0E8A|u0E8D|u0E94-|u0E97|u0E99-|u0E9F|u0EA1-|u0EA3|u0EA5|u0EA7|u0EAA-|u0EAB|u0EAD-
"+" { return newSymbol(sym.PLUS); }
"-" { return newSymbol(sym.MINUS); }
"div" { return disambiguateOperator(sym.DIV); }
"mod" { return disambiguateOperator(sym.MOD); }
"::" { return newSymbol(sym.DCOLON); }
"," { return newSymbol(sym.COMMA); }
"@" { return newSymbol(sym.ATSIGN); }
".." { return newSymbol(sym.DDOT); }
"|" { return newSymbol(sym.VBAR); }
"$" { return newSymbol(sym.DOLLAR); }
"//" { return newSymbol(sym.DSLASH); }
"=" { return newSymbol(sym.EQ); }
"!=" { return newSymbol(sym.NE); }
"<" { return newSymbol(sym.LT); }
">" { return newSymbol(sym.GT); }
"<=" { return newSymbol(sym.LE); }
">=" { return newSymbol(sym.GE); }
"id" { return disambiguateAxisOrFunction(sym.ID); }
"key" { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text" + [ \n\r\f\t ] + "()" { return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node" + [ \n\r\f\t ] + "()" { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment" + [ \n\r\f\t ] + "()" { return newSymbol(sym.COMMENT); }
"processing-instruction()" { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction" + [ \n\r\f\t ] + "()" { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self" { return disambiguateAxisOrFunction(sym.SELF); }
"[" { return newSymbol(sym.LBRACK); }
"]" { return newSymbol(sym.RBRACK); }
"(" { return newSymbol(sym.LPAREN); }
")" { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"  { initialize(); return new Symbol(sym.EXPRESSION); }

\["[^\"]*"  { return newSymbol(sym.Literal,  
    yytext().substring(1, yytext().length() - 1)); }

\["[^\"]*"  { 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.REAL, new Double(yytext())); }  
"."          { return newSymbol(sym.DOT); }  
({NCName}:)?({NCName}  { return newSymbol(sym.QNAME, yytext()); }  
({NCName}:)?"*"   { return newSymbol(sym.QNAME, yytext()); }  
({NCName}:)"@*"   { return newSymbol(sym.QNAME, yytext()); } 
{\w\s\n\t}   { /* 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
/*
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.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 */
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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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/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/xpath/compiler/Keywords.java
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*/

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java
* /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/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
jar/org/apache/xalan/xslt/runtime/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/KeyIndex.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/NodeSetType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/CurrentCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/trax/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIteratorSorted.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstring.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/trax/TrAXFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncConcat.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_CN.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_ko.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/trax/XSLTCSource.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/AttributeIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToIntTable.java
<table>
<thead>
<tr>
<th>Path</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>jar/org/apache/xalan/extensions/ExtensionsTable.java</code></td>
<td></td>
</tr>
<tr>
<td><code>* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Minus.java</code></td>
<td></td>
</tr>
<tr>
<td><code>* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/CharArrayWrapper.java</code></td>
<td></td>
</tr>
<tr>
<td><code>* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CastExpr.java</code></td>
<td></td>
</tr>
<tr>
<td><code>* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ka.java</code></td>
<td></td>
</tr>
<tr>
<td><code>* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_TW.java</code></td>
<td></td>
</tr>
<tr>
<td><code>* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/serializer/ExtendedLexicalHandler.java</code></td>
<td></td>
</tr>
<tr>
<td><code>* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trans/AVTPartXPath.java</code></td>
<td></td>
</tr>
<tr>
<td><code>* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trans/DOM2SAX.java</code></td>
<td></td>
</tr>
</tbody>
</table>

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/PredicatedNodeTest.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/OpCodes.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplateElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/templates/ElemTextLiteral.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_pt_BR.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Step.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/IntegerArray.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XString.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/trax/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FilterParentPath.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Sort.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLast.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CeilingCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function3Args.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/URI.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPath.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/RealType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/DOMWSFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExpressionContext.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FunctionDef1Arg.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/OneStepIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xstlc/compiler/FilterExprWalker.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xstlc/compiler/KeyPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xstlc/compiler/ParentLocationPath.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xstlc/transformer/TreeWalker2Result.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xstlc/transformer/TreeWalker2Result.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xstlc/transformer/TreeWalker2Result.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xstlc/res/XSLTErrorResources_sv.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_pl.java
jar/org/apache/xalan/xslt/CollatorFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_sk.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_pt_BR.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_es.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/UnsupportedElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_ru.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/StringType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemVariable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/TestSeq.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Util/ErrorMessages.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/KeyDeclaration.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/TestSeq.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Util/StringStack.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/DTMDocument.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Transform.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_en.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Util/Resolver.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/EmptyFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/SortingIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/compiler/XPathParser.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/NodeIterator.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorInclude.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/axes/LocPathIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/ObjectFactory.java
1.1013 mergo 0.3.6

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import: ../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root
1.1014 libusb-compat 0.1.12-28

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* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
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* Added atomicops for Solaris
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* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/v3/assert"
    is "gotest.tools/v3/assert/cmp"
)

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 {{.Owner}}", false)},
        "1: License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
        2: License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
        ",
        },
    }

}
`OWNER
owner1
owner2
`,
}

// Raw Format
{
formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
`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{
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",
}

out := &bytes.Buffer{
}
testcase.context.Output = out
err := 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,
    },
  },
  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",
      },
    },
  },
  {
    "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(10),
},
{
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1
Quantity: 10 nodes
Expiration 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 ...
return defaultSubscriptionsTableFormat

case formatter.RawFormatKey:
    if quiet {
        return `license: {{.ID}}`
    }
    return `license: {{.ID}}
        name: {{.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
            }
        }
    }
    licenseCtx := licenseContext{}
    licenseCtx.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"
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.Wrap(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

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

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(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
}
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,
        }, "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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jar/org/eclipse/microprofile/rest/client/ext/AsyncInvocationInterceptorFactory.java
* /opt/ws_local/PERMITS_SQL/1094801243_1601320735.8/0/microprofile-rest-client-api-1-4-0-sources-
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/**
 * Constructs a new {@link BasicInterpreter} for the latest ASM API version. <i>Subclasses must
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 * version.
 */

Found in path(s):
* /opt/cola/permits/1092526418_1601878472.11/0/asm-analysis-8-0-1-sources-
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
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* /opt/cola/permits/1092526418_1601878472.11/0/asm-analysis-8-0-1-sources-jar/org/objectweb/asm/tree/analysis/package.html

1.1040 go-yaml 2.3.0

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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/json/JsonNull.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/json/JsonDeserializationContext.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/json/JsonArray.java
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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
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functions (ten lines or less in length), then the use of the object
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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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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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b) Use a suitable shared library mechanism for linking with the
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollMode.java
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* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io.netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io.netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io.netty/channel/epoll/AbstractEpollStreamChannel.java
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* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io.netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io.netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java

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 * Set the { @code 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.
 */
/**
 * Set the { @code TCP_QUICKACK} option on the socket. See <a
 * href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
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* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java

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* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

1.1060 flink-streaming-java 1.11.0

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1.1064 sqlite 3.11.0 1ubuntu1.2

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  jar/io/netty/handler/ssl/AbstractSniHandler.java
  jar/io/netty/handler/ssl/SslCompletionEvent.java
  jar/io/netty/handler/ssl/SniCompletionEvent.java
  jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
  jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
  jar/io/netty/handler/ssl/Conscrypt.java
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* /opt/ cola/ permits/ 1110676046_ 1606843831.59/0/ netty-handler-4-1-32-final-sources-2-
jar/ io/ netty/ handler/ traffic/ TrafficCounter. java
* /opt/ cola/ permits/ 1110676046_ 1606843831.59/0/ netty-handler-4-1-32-final-sources-2-
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* /opt/ cola/ permits/ 1110676046_ 1606843831.59/0/ netty-handler-4-1-32-final-sources-2-
jar/ io/ netty/ handler/ ssl/ OpenSslX509Certificate. java
* /opt/ cola/ permits/ 1110676046_ 1606843831.59/0/ netty-handler-4-1-32-final-sources-2-
jar/ io/ netty/ handler/ssl/ util/ BouncyCastleSelfSignedCertGenerator. java
* /opt/ cola/ permits/ 1110676046_ 1606843831.59/0/ netty-handler-4-1-32-final-sources-2-
jar/ io/ netty/ handler/ssl/ SniHandler. java
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jar/ io/ netty/ handler/ssl/ JdkNpnApplicationProtocolNegotiator. java
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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
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java

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  jar/io/netty/handler/ssl/DelegatingSslContext.java
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  jar/io/netty/handler/flush/package-info.java
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  jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslCertificateException.java
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  jar/io/netty/handler/ssl/PemEncoded.java
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with the Library, with the complete machine-readable "work that
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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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++++++++++++++++

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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@end enumerate

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Version 2, June 1991

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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 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.

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facilities not covered by this License, and distribute such a combined
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the Library and of the other library facilities is otherwise
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b) Give prominent notice with the combined library of the fact
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Appendix: How to Apply These Terms to Your New Libraries

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Ty Coon, President of Vice

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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.

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.

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 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
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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
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/EventLoopProcessor.java
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* /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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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/FluxMergeSequential.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/MonoDefaultIfEmpty.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/ParallelSource.java
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That's all there is to it!
1.1108 libcap-ng 0.7.10

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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.

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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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.)

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

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1.1112 cracklib 2.9.0
1.1112.1 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

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
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
> =20
> 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=20
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 isnt the place of =20
a=20
library to dictact to application writes what license they should be using. =20
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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
=20

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...
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 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 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 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.

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...
Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@...> - 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
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

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1.1116 wget 1.17.1 1ubuntu1.5

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in one of these ways:

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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 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.

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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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## Source Code

The project maintains the following source code repositories:

* [https://github.com/eclipse-ee4j/jaxrs-api](https://github.com/eclipse-ee4j/jaxrs-api)

## Third-party Content

This project leverages the following third party content.

javaee-api (7.0)

* License: Apache-2.0 AND W3C

JUnit (4.11)

* License: Common Public License 1.0

Mockito (2.16.0)

* Project: http://site.mockito.org
* Source: [https://github.com/mockito/mockito/releases/tag/v2.16.0](https://github.com/mockito/mockito/releases/tag/v2.16.0)

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tree grammar CodeGenerator;

options {
language=Java;
tokenVocab=STParser;
ASTLabelType=CommonTree;
}

@header {
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 */
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4.misc.*;
import org.stringtemplate.v4.*;
}

@members {
String outermostTemplateName; // name of overall template
CompiledST outermostImpl;
}
Token templateToken; // overall template token
String template; // overall template text
ErrorManager errMgr;

public CodeGenerator(TreeNodeStream input, ErrorManager errMgr, String name, String template, Token templateToken) {
    this(input, new RecognizerSharedState());
    this.errMgr = errMgr;
    this.outermostTemplateName = name;
    this.template = template;
    this.templateToken = templateToken;
}

    public void addArgument(List<FormalArgument> args, Token t) {
        String name = t.getText();
        for (FormalArgument arg : args) {
            if (arg.name.equals(name)) {
                errMgr.compileTimeError(ErrorType.PARAMETER_REDEFINITION, templateToken, t, name);
                return;
            }
        }
        args.add(new FormalArgument(name));
    }

    // convience funcs to hide offensive sending of emit messages to
    // CompilationState temp data object.
    public void emit1(CommonTree opAST, short opcode, int arg) {
        $template::state.emit1(opAST, opcode, arg);
    }
    public void emit1(CommonTree opAST, short opcode, String arg) {
        $template::state.emit1(opAST, opcode, arg);
    }
    public void emit2(CommonTree opAST, short opcode, int arg, int arg2) {
        $template::state.emit2(opAST, opcode, arg, arg2);
    }
    public void emit2(CommonTree opAST, short opcode, String s, int arg2) {
        $template::state.emit2(opAST, opcode, s, arg2);
    }
    public void emit(CommonTree opAST, short opcode) {
        $template::state.emit(opAST, opcode);
    }
    public void insert(int addr, short opcode, String s) {
        $template::state.insert(addr, opcode, s);
    }
    public void setOption(CommonTree id) {
        $template::state.setOption(id);
    }
public void write(int addr, short value) {
    Template::state.write(addr, value);
}

public int address() { return Template::state.ip; }

public void func(CommonTree id) {
    Template::state.func(templateToken, id);
}

public void refAttr(CommonTree id) {
    Template::state.refAttr(templateToken, id);
}

public int defineString(String s) { return Template::state.defineString(s); }

@Override
public void displayRecognitionError(String[] tokenNames, RecognitionException e) {
    Token tokenWithPosition = e.token;
    if (tokenWithPosition.getInputStream() == null) {
        tokenWithPosition = input.getTreeAdaptor().getToken(input.LT(-1));
    }

    String hdr = getErrorHeader(e);
    String msg = getErrorMessage(e, tokenNames);
    errMgr.compileTimeError(ErrorType.SYNTAX_ERROR, templateToken, tokenWithPosition, hdr + " " + msg);
}


templateAndEOF : template[null,null] EOF; // hush warning; ignore

template[String name, List<FormalArgument> args] returns [CompiledST impl] scope {
    CompilationState state; // automatically get a new state pointer per invocation
}

@init {
    $template::state = new CompilationState(errMgr, name, input.getTokenStream());
    $impl = $template::state.impl;
    if ( $template.size() == 1 ) outermostImpl = $impl;
    $impl.defineFormalArgs($args); // make sure args are defined prior to compilation
    if ( name!=null && & name.startsWith(Compiler.SUBTEMPLATE_PREFIX) ) {
        $impl.addArg(new FormalArgument("i"));
        $impl.addArg(new FormalArgument("i0"));
    }
    $impl.template = template; // always forget the entire template; char indexes are relative to it
}

:chunk
    // finish off the CompiledST result
    if ( $template::state.stringtable!=null ) $impl.strings = $template::state.stringtable.toArray();
    $impl.codeSize = $template::state.ip;
}

;

chunk :element* ;


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element
>:^(INDENTED_EXPR INDENT compoundElement[$INDENT]) // ignore indent in front of IF and region blocks
[compoundElement>null]
|:^(INDENTED_EXPR INDENT {$template::state.indent($INDENT);} singleElement?
{$template::state.emit(Bytecode.INSTR_DEDENT);})
|singleElement
;

singleElement
:exprElement
[TEXT
{
if ( $TEXT.text.length()>0 ) {
emit1($TEXT,Bytecode.INSTR_WRITE_STR, $TEXT.text);
}
}

[NEWLINE {emit($NEWLINE, Bytecode.INSTR_NEWLINE);}]
;

compoundElement[CommonTree indent]
:ifstat[indent]
|region[indent]
;

exprElement
@init { short op = Bytecode.INSTR_WRITE; }
>:^( EXPR expr (exprOptions {op=Bytecode.INSTR_WRITE_OPT;})?)
{
/*
CompilationState state = $template::state;
CompiledST impl = state.impl;
if ( impl.instrs[state.ip-1] == Bytecode.INSTR_LOAD_LOCAL ) {
impl.instrs[state.ip-1] = Bytecode.INSTR_WRITE_LOCAL;
}
else {
emit($EXPR, op);
}
*/
emit($EXPR, op);
};

region[CommonTree indent] returns [String name]
@init {
if ( indent!=null ) $template::state.indent(indent);
}
@after {
if ( indent!=null ) $template::state.emit(Bytecode.INSTR_DEDENT);
}

:^((REGION ID
{$name = STGroup.getMangledRegionName(outermostTemplateName, $ID.text);}
$template[$name,null]
{
CompiledST sub = $template.impl;
    sub.isRegion = true;
    sub.regionDefType = ST.RegionType.EMBEDDED;
    sub.templateDefStartToken = $ID.token;
//sub.dump();
outermostImpl.addImplicitlyDefinedTemplate(sub);
emit2($start, Bytecode.INSTR_NEW, $region.name, 0);
emit($start, Bytecode.INSTR_WRITE);
})
)

subtemplate returns [String name, int nargs]
@init {
    $name = Compiler.getNewSubtemplateName();
List<FormalArgument> args = new ArrayList<FormalArgument>();
}

:^((SUBTEMPLATE
(*ARGS (ID {addArgument(args, $ID.token);})+))*)
{$nargs = args.size();}
$template[$name,args]
{
CompiledST sub = $template.impl;
sub.isAnonSubtemplate = true;
    sub.templateDefStartToken = $SUBTEMPLATE.token;
    sub.ast = $SUBTEMPLATE;
    sub.ast.setUnknownTokenBoundaries();
    sub.tokens = input.getTokenStream();
//sub.dump();
outermostImpl.addImplicitlyDefinedTemplate(sub);
}
)

|SUBTEMPLATE // |
{
CompiledST sub = new CompiledST();
sub.name = $name;
sub.template = "";
sub.addArg(new FormalArgument("i"));
sub.addArg(new FormalArgument("i0"));
sub.isAnonSubtemplate = true;
    sub.templateDefStartToken = $SUBTEMPLATE.token;
sub.ast = $SUBTEMPLATE;
sub.ast.setUnknownTokenBoundaries();
sub.tokens = input.getTokenStream();
//sub.dump();
outermostImpl.addImplicitlyDefinedTemplate(sub);
}
;
ifstat[CommonTree indent]
@init {
/** Tracks address of branch operand (in code block). It's how
  * we backpatch forward references when generating code for IFs.
  */
  int prevBranchOperand = -1;
/** Branch instruction operands that are forward refs to end of IF.
  * We need to update them once we see the endif.
  */
  List<Integer> endRefs = new ArrayList<Integer>();
  if ( indent!=null ) $template::state.indent(indent);
} @after {
if ( indent!=null ) $template::state.emit(Bytecode.INSTR_DEDENT);
}
:^i='if' conditional {
  prevBranchOperand = address()+1;
  emit1($i,Bytecode.INSTR_BRF, -1); // write placeholder as branch target
}
chunk
(^eif='elseif'
{
  endRefs.add(address()+1);
  emit1($eif,Bytecode.INSTR_BR, -1); // br end
  // update previous branch instruction
  write(prevBranchOperand, (short)address());
  prevBranchOperand = -1;
}
ec=conditional
{
  prevBranchOperand = address()+1;
  // write placeholder as branch target
  emit1($ec.start, Bytecode.INSTR_BRF, -1);
}
chunk
)*
(^el='else'
{
endRefs.add(address()+1);
emit1($el, Bytecode.INSTR_BR, -1); // br end
// update previous branch instruction
write(prevBranchOperand, (short)address());
prevBranchOperand = -1;
}
chunk
);
)?
)
{
if ( prevBranchOperand>=0 ) {
write(prevBranchOperand, (short)address());
}
for (int opnd : endRefs) write(opnd, (short)address());
}
;
conditional
:^{(OR conditional conditional)}{emit($OR, Bytecode.INSTR_OR);} 
|^{(AND conditional conditional)}{emit($AND, Bytecode.INSTR_AND);} 
|^{(BANG conditional)}{emit($BANG, Bytecode.INSTR_NOT);} 
|expr // not all expr are valid, but reuse code gen (parser restricts syntax)
;
exprOptions : {emit($start, Bytecode.INSTR_OPTIONS);} ^(OPTIONS option* ) ;
option : ^('= ID expr) {setOption($ID);} ;
expr
@init {int nt = 0, ne = 0;}
:^{ZIP ^{ELEMENTS (expr [ne++:])++} mapTemplateRef[ne]}
{emit($ZIP, Bytecode.INSTR_ZIP_MAP, ne);} 
|^{MAP expr (mapTemplateRef[1] {nt++;})++}
{
if ( nt>1 ) emit1($MAP, nt>1?Bytecode.INSTR_ROT_MAP:Bytecode.INSTR_MAP, nt);
else emit($MAP, Bytecode.INSTR_MAP);
}
|prop
|includeExpr
;
prop:^{(PROP expr ID)}{emit1($PROP, Bytecode.INSTR_LOAD_PROP, $ID.text);} 
|^{(PROP_IND expr expr)}{emit($PROP_IND, Bytecode.INSTR_LOAD_PROP_IND);} 
;
mapTemplateRef[int num_exprs]
:^{(INCLUDE qualifiedId}
for (int i=1; i<=$num_exprs; i++) emit($INCLUDE,Bytecode.INSTR_NULL);}

if ( $args.passThru ) emit1($start, Bytecode.INSTR_PASSTHRU, $qualifiedId.text);
if ( $args.namedArgs ) emit1($INCLUDE, Bytecode.INSTR_NEW_BOX_ARGS, $qualifiedId.text);
else emit2($INCLUDE, Bytecode.INSTR_NEW, $qualifiedId.text, $args.n+$num_exprs);
}

if ( $subtemplate.nargs != $num_exprs ) {
    errMgr.compileTimeError(ErrorType.ANON_ARGUMENT_MISMATCH,
        templateToken, $subtemplate.start.token, $subtemplate.nargs, $num_exprs);
}

for (int i=1; i<=$num_exprs; i++) emit($subtemplate.start,Bytecode.INSTR_NULL);
emit2($subtemplate.start, Bytecode.INSTR_NEW,
    $subtemplate.name,
    $num_exprs);
}

^

includeExpr
*:^(EXEC_FUNC ID expr?) {func($ID);}
|^INCLUDE qualifiedId args
{
if ( $args.passThru ) emit1($start, Bytecode.INSTR_PASSTHRU, $qualifiedId.text);
if ( $args.namedArgs ) emit1($INCLUDE, Bytecode.INSTR_NEW_BOX_ARGS, $qualifiedId.text);
else emit2($INCLUDE, Bytecode.INSTR_NEW, $qualifiedId.text, $args.n);
}
|^INCLUDE_SUPER ID args
{
if ( $args.passThru ) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
if ( $args.namedArgs ) emit1($INCLUDE_SUPER, Bytecode.INSTR_SUPER_NEW_BOX_ARGS, $ID.text);
else emit2($INCLUDE_SUPER, Bytecode.INSTR_SUPER_NEW, $ID.text, $args.n);
}
|^INCLUDE_REGION ID{
CompiledST impl =
}
Compiler.defineBlankRegion(outermostImpl, $ID.token);
//impl.dump();
emit2($INCLUDE_REGION,Bytecode.INSTR_NEW,impl.name,0);
}
|^{$INCLUDE_SUPER_REGION ID}{
  String mangled =
  STGroup.getMangledRegionName(outermostImpl.name, $ID.text);
emit2($INCLUDE_SUPER_REGION,Bytecode.INSTR_SUPER_NEW,mangled,0);
}
|primary
;

primary
:ID{refAttr($ID);}
|STRING{emit1($STRING,Bytecode.INSTR_LOAD_STR, Misc.strip($STRING.text,1));}
|TRUE{emit($TRUE, Bytecode.INSTR_TRUE);}
|FALSE{emit($FALSE, Bytecode.INSTR_FALSE);}
|subtemplate// push a subtemplate but ignore args since we can't pass any to it here
  {emit2($start,Bytecode.INSTR_NEW, $subtemplate.name, 0);}
|list
|^{$INCLUDE_IND
  expr {emit($INCLUDE_IND, Bytecode.INSTR_TOSTR);}
  args {emit1($INCLUDE_IND, Bytecode.INSTR_NEW_IND, $args.n);}
  }|^{$TO_STR expr}{emit($TO_STR, Bytecode.INSTR_TOSTR);}
;

qualifiedId
:^{$SLASH qualifiedId ID}
|^{$SLASH ID}
|ID
;

arg : expr ;

args returns [int n=0, boolean namedArgs=false, boolean passThru]
: ( arg {$n++;} )+
  [{emit($args.start, Bytecode.INSTR_ARGS); $namedArgs=true;}
  (*eq='=' ID expr
  {$n++; emit1($eq, Bytecode.INSTR_STORE_ARG, defineString($ID.text));}
  )+
  (...' {$passThru=true;})?
   |...' {$passThru=true; emit($args.start, Bytecode.INSTR_ARGS); $namedArgs=true;}
   |
; 

list:{emit($start, Bytecode.INSTR_LIST);}
^{$LIST (listElement {emit($listElement.start, Bytecode.INSTR_ADD;})*)}
listElement : expr | NULL {emit($NULL,Bytecode.INSTR_NULL);} ;

Found in path(s):
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* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/misc/AmbiguousMatchException.java
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* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/debug/ConstructionEvent.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/CompiledST.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/STLexer.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/GroupLexer.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/AttributeRenderer.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/STWriter.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/NoIndentWriter.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/misc/ErrorBuffer.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/misc/Misc.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/STLexer.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/GroupLexer.java
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* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/GroupLexer.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/misc/ErrorBuffer.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/misc/Misc.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/misc/Interval.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/STLexer.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/GroupLexer.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/misc/Interval.java
jar/org/stringtemplate/v4/misc/STCompilationMessage.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/GroupParser.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/StringTable.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/GroupParser.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/StringTable.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/CodeGenerator.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/CodeGenerator.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/gui/JTreeScopeStackModel.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/misc/STMessage.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/misc/STMessage.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/debug/AddAttributeEvent.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/debug/AddAttributeEvent.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/debug/AddAttributeEvent.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/debug/AddAttributeEvent.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/misc/AggregateModelAdaptor.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/misc/AggregateModelAdaptor.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/FormalArgument.java
* /opt/cola/permits/1258286456_1643052484.48/0/st4-4-1-sources-jar/org/stringtemplate/v4/compiler/FormalArgument.java

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 */
grammar Group;

options {
  language=Java;
}

tokens {
  TRUE='true'; FALSE='false'; LBRACK='['; RBRACK=']';
}

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   */
  package org.stringtemplate.v4.compiler;

  import java.util.Collections;
  import java.util.Map;
  import java.util.LinkedHashMap;
  import java.util.List;
  import java.util.ArrayList;
  import org.stringtemplate.v4.misc.*;
  import org.stringtemplate.v4.*;
  import java.io.File;
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4 *
import org.stringtemplate.v4.misc *
import java.io.File;

@members {
public STGroup group;

@Override
public void displayRecognitionException(String[] tokenNames,
    RecognitionException e)
{
    String msg = getErrorMessage(e, tokenNames);
    group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}
@Override
public String getSourceName() {
}
String fullFileName = super.getSourceName();
File f = new File(fullFileName); // strip to simple name
return f.getName();
}
public void error(String msg) {
    NoViableAltException e = new NoViableAltException("", 0, 0, input);
    group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
    recover(input, null);
}

public void addArgument(List<FormalArgument> args, Token t, Token defaultValueToken) {
    String name = t.getText();
    for (FormalArgument arg : args) {
        if (arg.name.equals(name)) {
            group.errMgr.compileTimeError(ErrorType.PARAMETER_REDEFINITION, null, t, name);
            return;
        }
    }
    args.add(new FormalArgument(name, defaultValueToken));
}

@lexer::members {
    public STGroup group;

    @Override
    public void reportError(RecognitionException e) {
        String msg = null;
        if (e instanceof NoViableAltException) {
            msg = "invalid character "+(char)input.LA(1)+"";
        } else if (e instanceof MismatchedTokenException && ((MismatchedTokenException)e).expecting==""") {
            msg = "unterminated string";
        }
        else {
            msg = getErrorMessage(e, getTokenNames());
        }
        group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
    }
    @Override
    public String getSourceName() {
        String fullFileName = super.getSourceName();
        File f = new File(fullFileName); // strip to simple name
        return f.getName();
    }
}
group[STGroup group, String prefix]
@init {
GroupLexer lexer = (GroupLexer)input.getTokenSource();
this.group = lexer.group = $group;
}
:oldStyleHeader?
delimiters?
   {'import' STRING {group.importTemplates($STRING);}
'import' // common error: name not in string
{} MismatchedTokenException e = new MismatchedTokenException(STRING, input);
reportError(e);
} ID (',' ID)* // might be a.b.c.d
)*
def[prefix]*
EOF
;

oldStyleHeader // ignore but lets us use this parser in AW for both v3 and v4
   'group' ID (':' ID)?
   ('implements' ID (',' ID)* )?
   ';
;

groupName returns [String name]
@init {StringBuilder buf = new StringBuilder();}
:a=ID {buf.append($a.text);} (':' a=ID {buf.append($a.text);})*
;

delimiters
   :delimiters' a=STRING ',' b=STRING
   {
   boolean supported = true;
   char startCharacter = $a.getText().charAt(1);
if (STGroup.isReservedCharacter(startCharacter)) {
   group.errMgr.compileTimeError(ErrorType.UNSUPPORTED_DELIMITER, null, $a, String.valueOf(startCharacter));
supported = false;
}

   char stopCharacter = $b.getText().charAt(1);
if (STGroup.isReservedCharacter(stopCharacter)) {
   group.errMgr.compileTimeError(ErrorType.UNSUPPORTED_DELIMITER, null, $b, String.valueOf(stopCharacter));
supported = false;
}
if (supported) {
group.delimiterStartChar=$a.getText().charAt(1);
group.delimiterStopChar=$b.getText().charAt(1);
}
}
;
/** Match template and dictionary defs outside of (...)+ loop in group.
* The key is catching while still in the loop; must keep prediction of
* elements separate from "stay in loop" prediction.
*/
def[String prefix] : templateDef[prefix] | dictDef ;
catch[RecognitionException re] {
// pretend we already saw an error here
state.lastErrorIndex = input.index();
error("garbled template definition starting at '"+input.LT(1).getText()+"'");
}
templateDef[String prefix]
@init {
String template=null;
int n=0; // num char to strip from left, right of template def
}
:('@' enclosing=ID '.' name=ID '(' ')'
|name=ID '(' formalArgs ')'
)
'::='
{Token templateToken = input.LT(1);}
(STRING {template=$STRING.text; n=1;}
|BIGSTRING {template=$BIGSTRING.text; n=2;}
|BIGSTRING_NO_NL {template=$BIGSTRING_NO_NL.text; n=2;}
|{
template = "";
String msg = "missing template at '"+input.LT(1).getText()+"'";
NoViableAltException e = new NoViableAltException("", 0, 0, input);
group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}
)
{
if ( $name.index >= 0 ) { // if ID missing
template = Misc.strip(template, n);
String templateName = $name.text;
if ( prefix.length()>0 ) templateName = prefix+$name.text;
String enclosingTemplateName = $enclosing.text;
if (enclosingTemplateName != null && enclosingTemplateName.length()>0 && prefix.length()>0) {
enclosingTemplateName = prefix + enclosingTemplateName;
}
group.defineTemplateOrRegion(templateName, enclosingTemplateName, templateToken,

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template, $name, $formalArgs.args);

| alias=ID '::=' target=ID  {group.defineTemplateAlias($alias, $target);}
|
|
|
formalArgs returns[List<FormalArgument> args = new ArrayList<FormalArgument>()]
scope {
boolean hasOptionalParameter;
}
@init { $formalArgs::hasOptionalParameter = false; }
:formalArg[args] (',', formalArg[args])* |
|
|
formalArg[List<FormalArgument> args]
:ID ('=' a=(STRING|ANONYMOUS_TEMPLATE|true|false) {$formalArgs::hasOptionalParameter = true;}
|=' a='[' ']' {$formalArgs::hasOptionalParameter = true;}
|)
if ($formalArgs::hasOptionalParameter) {
  group.errMgr.compileTimeError(ErrorType.REQUIRED_PARAMETER_AFTER_OPTIONAL,
    null, $ID);
}
|
{addArgument($args, $ID, $a);}
|
/*
suffix returns [int cardinality=FormalArgument.REQUIRED]
  :  OPTIONAL
    |  STAR
    |  PLUS
    ;
  */

dictDef
:ID '::=' dict
{| if ( group.rawGetDictionary($ID.text)!null ) {
  group.errMgr.compileTimeError(ErrorType.MAP_REDEFINITION, null, $ID);
} else if ( group.rawGetTemplate($ID.text)!null ) {
  group.errMgr.compileTimeError(ErrorType.TEMPLATE_REDEFINITION_AS_MAP, null, $ID);
} else {

group.defineDictionary($ID.text, $dict.mapping);

dict returns [Map<String, Object> mapping]
@init {mapping=new LinkedHashMap<String, Object>();}
	[' dictPairs[mapping] ']

dictPairs[Map<String, Object> mapping]
  :keyValuePair[mapping]
      (',' keyValuePair[mapping])* (',' defaultValuePair[mapping])?
  [defaultValuePair[mapping]]
  ;
catch[RecognitionException re] {
    error("missing dictionary entry at "+input.LT(1).getText()+");
}

defaultValuePair[Map<String, Object> mapping]
  :default' ':' keyValue {mapping.put(STGroup.DEFAULT_KEY, $keyValue.value);} 

keyValuePair[Map<String, Object> mapping]
  :STRING ':' keyValue {mapping.put(Misc.replaceEscapes(Misc.strip($STRING.text, 1)), $keyValue.value);} 

keyValue returns [Object value]
  :BIGSTRING {value = group.createSingleton($BIGSTRING);} 
  [BIGSTRING_NO_NL {value = group.createSingleton($BIGSTRING_NO_NL);} 
  [ANONYMOUS_TEMPLATE {value = group.createSingleton($ANONYMOUS_TEMPLATE);} 
  [STRING {value = Misc.replaceEscapes(Misc.strip($STRING.text, 1))}, $keyValue.value];

ID :

STRING :


String msg = "\n in string";
  NoViableAltException e = new NoViableAltException("", 0, 0, input);
group.errMgr.groupLexerError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
} 'u'
|-(\"["[\"]")
)*
...

  String txt = getText().replaceAll("\\\n", "\n");
setText(txt);
}

BIGSTRING_NO_NL // same as BIGSTRING but means ignore newlines later
>:<% ( . )* '%>'
  // %>% is the escape to avoid end of string
  |
  String txt = getText().replaceAll("\%\\\%","\%>");
setText(txt);
}
*

/** Match <<...>> but also allow <<..<x>>> so we can have tag on end.
  Escapes: \> means >> inside of <<...>>.
  Escapes: \>> means >> inside of <<...>> unless at end like <<...>>>.
  In that case, use <%.>>%> instead.
*/
BIGSTRING
>:<<
(options {greedy=false;}
>:\> // > escape
|\n~'> // allow this but don't collapse in action
|~\n)
>\>
  |
  String txt = getText();
  txt = Misc.replaceEscapedRightAngle(txt); // replace \> with > unless <<\>
setText(txt);
}
*

ANONYMOUS_TEMPLATE
: '{'
|
Token templateToken = new CommonToken(input, ANONYMOUS_TEMPLATE, 0, getCharIndex(),
getCharIndex());
STLexer lexer =
new STLexer(group.errMgr, input, templateToken, group.delimiterStartChar, group.delimiterStopChar);
lexer.subtemplateDepth = 1;
Token t = lexer.nextToken();
while (lexer.subtemplateDepth>=1 || t.getType()!=STLexer.RCURLY ) {
if ( t.getType()==STLexer.EOF_TYPE ) {
    MismatchedTokenException e = new MismatchedTokenException('}', input);
    String msg = "missing final '}' in {...} anonymous template";
    group.errMgr.groupLexerError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
    break;
}
t = lexer.nextToken();
}
// don't match '}' here; our little {...} scanner loop matches it
// to terminate.

COMMENT
: /* ( options {greedy=false;} : . )* */ {skip();} 
;

LINE_COMMENT
: // ~(\n|\r)* \r'? \n' {skip();} 
;

WS : (' | \r | \t | \n') {skip();} :

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/** Build an AST from a single StringTemplate template */

parser grammar STParser;

options {
    language=Java;
    tokenVocab=STLexer;
    TokenLabelType=CommonToken;
    output=AST;
    ASTLabelType=CommonTree;
}

tokens {
    EXPR; OPTIONS; PROP; PROP_IND; INCLUDE; INCLUDE_IND; EXEC_FUNC; INCLUDE_SUPER;
    INCLUDE_SUPER_REGION; INCLUDE_REGION; TO_STR; LIST; MAP; ZIP; SUBTEMPLATE; ARGS;
    ELEMENTS; REGION; NULL; INDENTED_EXPR;
}

@header {
    package org.stringtemplate.v4.compiler;
    import org.stringtemplate.v4.misc.ErrorManager;
    import org.stringtemplate.v4.misc.ErrorType;
}

@members {
    ErrorManager errMgr;
    Token templateToken;
    public STParser(TokenStream input, ErrorManager errMgr, Token templateToken) {
        this(input);
        this.errMgr = errMgr;
        this.templateToken = templateToken;
    }
    @Override
    protected Object recoverFromMismatchedToken(IntStream input, int ttype, BitSet follow)
    throws RecognitionException
{  
throw new MismatchedTokenException(ttype, input);
}

@rulecatch {
    catch (RecognitionException re) { throw re; }
}

templateAndEOF : template EOF -> template? ;

template : element* ;

element : {input.LT(1).getCharPositionInLine()==0}? INDENT? COMMENT NEWLINE -> // throw away
            | INDENT singleElement -> ^(INDENTED_EXPR INDENT singleElement?) // singleElement is optional to handle error returning nil
            | singleElement
            | compoundElement :

singleElement : exprTag
| TEXT
| NEWLINE
| COMMENT! // throw away :

compoundElement :
    ifstat
| region :

exprTag : LDELIM expr ( ';' exprOptions )? RDELIM
-> ^(EXPR[$LDELIM,"EXPR"] expr exprOptions?) ;

region @init {Token indent=null;}
:i=INDENT? x=LDELIM `@` ID RDELIM {if (input.LA(1)!=NEWLINE) indent=$i;}
template INDENT? LDELIM `@end` RDELIM
// kill `\n` for `@end` on line by itself if multi-line embedded region
( { axis.start.getLine()! = input.LT(1).getLine() )? => NEWLINE)?
-> { indent!=null }?
    ^(INDENTED_EXPR Si ^(REGION[$x] ID template?) )
   -> ^(REGION[$x] ID template?)
subtemplate
lc='{' (ids+= ID (',' ids+= ID )* '|' )? template INDENT? '}'
// ignore final INDENT before } as it's not part of outer indent
-> ^(SUBTEMPLATE[$lc,"SUBTEMPLATE"] ^(ARGS $ids)* template?)

ifstat
@init {Token indent=null;}
:i=INDENT? LDELIM 'if' '(' c1=conditional ')' RDELIM {if (input.LA(1)!=NEWLINE) indent=$i;}
t1=template
( INDENT? LDELIM 'elseif' '(' c2+=conditional ')' RDELIM t2+=template )* 
( INDENT? LDELIM 'else' RDELIM t3=template )? 
INDENT? endif= LDELIM 'endif' 
RDELIM
// kill \n for <endif> on line by itself if multi-line IF 
({$ifstat.start.getLine()!=input.LT(1).getLine()}?=> NEWLINE)?
-> {indent!=null}? 
  ^(INDENTED_EXPR $i ^('if' $c1 $t1? ^('elseif' $c2 $t2)* ^('else' $t3?)?))
->                    ^('if' $c1 $t1? ^('elseif' $c2 $t2)* ^('else' $t3?)?)

conditional
scope {
    boolean inside;
}
: andConditional ( '||'^ andConditional )*

andConditional : notConditional ( '&&'^ notConditional )* ;

notConditional
:!'^ notConditional
|memberExpr
;

notConditionalExpr
:(ID->ID)
(p='.' prop>ID-> ^(PROP[$p,"PROP"] SnotConditionalExpr $prop)
|p='.' (' mapExpr ')-> ^(PROP_IND[$p,"PROP_IND"] SnotConditionalExpr mapExpr)
)*
;

exprOptions : option ( ',' option )* -> ^(OPTIONS option*) ;

option
@init {


String id = input.LT(1).getText();
String defVal = Compiler.defaultOptionValues.get(id);
boolean validOption = Compiler.supportedOptions.get(id)!=null;
}

if ( !validOption ) {
    errMgr.compileTimeError(ErrorType.NO_SUCH_OPTION, templateToken, $ID, $ID.text);
}

('=' exprNoComma -> {validOption}? ^('=' ID exprNoComma)
->
|
if ( defVal==null ) {
    errMgr.compileTimeError(ErrorType.NO_DEFAULT_VALUE, templateToken, $ID);
}
}

-> {validOption&&defVal!=null]?^(EQUALS["="] ID STRING[$ID,'"'+defVal+'"'])
->
)
;

exprNoComma
:memberExpr
( 'mapTemplateRef-> ^MAP memberExpr mapTemplateRef)
|-> memberExpr
)
;

expr : mapExpr ;

// more complicated than necessary to avoid backtracking, which ruins
// error handling
mapExpr
:memberExpr
( (c=',' memberExpr)+ col=':' mapTemplateRef
-> ^ZIP[$col] ^(ELEMENTS memberExpr+) mapTemplateRef)
|-> memberExpr
)
)
( {if ($x!=null) $x.clear();} // don't keep queueing x; new list for each iteration
col=':' x+=mapTemplateRef ({$c==null}?=> ',' x+=mapTemplateRef )*
-> ^MAP[$col] $mapExpr $x+)
)*
;

/**
expr:template(args) apply template to expr
expr: {arg | ...}  apply subtemplate to expr
expr: (e)(args)  convert e to a string template name and apply to expr

*/

mapTemplateRef
: qualifiedId '(' args ')' -> ^(INCLUDE qualifiedId args?)
| subtemplate
| lp='(' mapExpr rp=')' '(' argExprList? ')' -> ^(INCLUDE_IND mapExpr argExprList?)
;

memberExpr
: (includeExpr->includeExpr)
(p='.' ID-> ^(PROP[Sp,"PROP"] $memberExpr ID)
| p='.' '(' mapExpr ')') -> ^(PROP_IND[Sp,"PROP_IND"] $memberExpr mapExpr)
)*
;

includeExpr
options {k=2;} // prevent full LL(*), which fails, falling back on k=1; need k=2
: {Compiler.funcs.containsKey(input.LT(1).getText())}? // predefined function
ID (' expr? ')-> ^(EXEC_FUNC ID expr?)
| 'super' '.' ID (' args ')-> ^(INCLUDE_SUPER ID args?)
| qualifiedId (' args ')-> ^(INCLUDE qualifiedId args?)
| '@' 'super' '.' ID '(' rp=')' -> ^(INCLUDE_SUPER_REGION ID)
| '@' ID '(' rp=')' -> ^(INCLUDE_REGION ID)
| primary
;

primary
: ID
| STRING
| TRUE
| FALSE
| subtemplate
| list
| {$conditional.size()>0}?=> '('! conditional ')'!
| {$conditional.size()==0}?=> lp=(' expr ')' (' argExprList? ')' -> ^(INCLUDE_IND[Slp] expr argExprList?)
| -> ^(TO_STR[Slp] expr)
);

qualifiedId
: (ID-> ID
| '/' ID-> ^('/ ID)
)
| (' r=ID-> ^( '/' $qualifiedId $r)
)*
;


1.1134 tzdata 2020e 0+deb10u1

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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"

// no documentation yet
Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}

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>>> coreos_go-semver_semver-5e3acbb5668c4c3deb4842615c4098eb61fb6b1e
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>>> maruel恐慌parse_stack-25bcac0d793cf4109483505a0d66e066a3a90a80
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>>> vishvananda_netns-604eaf189ee867d8c147fafa28def2394e878d25
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>>> airbrake_gobrake_v2-c9d51adce624b5cc4c1bf8de730a09af4878ffe2d
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>>> graylog2_gelf-gelf-master
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>>> hpcloud_tail-a30252cb886a21eb2d0b98132633053ecc2f7fe1e5
>>> jessevd_k_gogs-flags-97448c91aa742cba3d202b3e769013a420a06f
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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8cb989a38d
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>>> dbus-1.11.12-1.ph2

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>>> coreos_go-semver_semver-5e3acbb5668c4c3deb4842615c4098eb61fb6b1e

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> gizak_termui-798ffb9cbe4073ef1f88e6069ca4a2e6aa6676b

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>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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>>> mattn_go-runewidth-14207d285c6c197daabb5c9793d63e7af9ab2d50

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>>> microsoft_go-winio-24a3e3d3fc7451805e09d11e11e95d9a0a4f205e

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tomb - support for clean goroutine termination in Go.

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```plaintext
>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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```bash
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```

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>>> x_net_internal_timeseries-a6577fac2d73be281a500b310739095313165611

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+build appengine

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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
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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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lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
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/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.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
slave/kpropd_rpc.c
slave/kprophlog.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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>>> libssh2-1.8.0-1.ph2

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>>> lsof-4.89-2.ph2

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```

Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

```
Files: *
Licence: X11
```

```
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@version 3.0 (December 2000)

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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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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 tt target
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Reasonably optimised generic C-code for memcpy on Microblaze
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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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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
Copyright (C) 1998, 1999 Theodore Ts'o.

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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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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
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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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Heavily modified for GnuPG by Werner Koch

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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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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.

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e) Convey the object code using peer-to-peer transmission, provided
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[This is the first released version of the library GPL. It is
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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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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.)

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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 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.

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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
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distribute.

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Version 3, 29 June 2007

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-------------- SECTION 21: SIL Open Font License, V1.1 ------------

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
PREAMBLE

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Important Recommendations

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1.1159 jackson 2.9.7
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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.1161 zlib 1.2.3

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   version 1.2.11, January 15th, 2017

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1.1162 python-requests 2.9.1-3ubuntu0.1
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org.jboss.logmanager.JBossLoggerFinder

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Initialize empty image
f1c9645dbc14efddc7d8322685f26eb 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
1beb87248e05d66e462b749da65d023 bsd.img
Set 2nd partition type
2d8e8aff51a888045db233418dd73f8 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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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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1.1180 opentracing-interceptors 0.0.4

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```
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#
0       leshort         0x0436          psf screen font data
>2      byte            0               256 characters, no index
>2      byte            1               512 characters, no index
>2      byte            2               256 characters, Unicode index
>2      byte            3               512 characters, Unicode index
>2      byte            4               256 characters, Unicode level 2 index
>2      byte            5               512 characters, Unicode level 2 index
>3      byte            6               8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0      lelong          0x864ab572    psf2 screen font data
>12    lelong&1        1               with Unicode index
```

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* /opt/cola/permits/1258811491_1643111603.33/0/annotations-4-1-1-4-sources-jar/android/annotation/TargetApi.java
1.1192 infinispan-hibernate-cache-commons

9.4.18.Final

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1.1193 json-cpp 1.8.4

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1.1194 botocore 1.25.12

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1.1195 wildfly-domain-http-interface

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  * [/opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/framed/Settings.java]
  * [/opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/Dns.java]
  * [/opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/OkHttpClient.java]
  * [/opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/http/RouteSelector.java]
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Ackeret, Matt
Adler, Mark
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Behan, Zdenk
Bellis, Ray
Benali, Elias
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Rossum, Guido van
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Rowe, William A., Jr.
Roy, Alain
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Ryabinkin, Eygene
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Sanchez, Wilfredo
Saucier, Jean-Francois
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Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
The following people have worked to translate sudo into other languages:

- Blittermann, Mario
- Bogusz, Jakub
- Casagrande, Milo
- Castro, Felipe
- Chornoivan, Yuri
- Diguez, Francisco
- Ferreira, Rafael
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- Gezer, Volkan
- Hamasaki, Takeshi
- Hamming, Peter
- Hansen, Joe
- Hantrais, Frédéric
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  jar/com/google/common/base/FunctionalEquivalence.java
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/*
 * This method was rewritten in Java from an intermediate step of the Murmur
 * hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/Subscriber.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/AbstractStreamingHashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashingOutputStream.java
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jar/com/google/common/collect/RegularImmutableAsList.java
jar/com/google/common/collection/FilteredMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/TreeTraverser.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/FilteredEntrySetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/Element.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collections/ReverseNaturalOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/package-info.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collections/Constraints.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collections/ClassToInstanceMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collections/NullsLastOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collections/Constraint.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collections/ComparatorOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/Files.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collections/LexicographicalOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collections/ForwardingListIterator.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/InputSupplier.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collections/HashMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collections/AbstractSortedSetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/CountingOutputStream.java
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jar/com/google/common/collection/ContiguousSet.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Utf8.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/FilteredMultimapValues.java
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  */opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SingletonImmutableTable.java
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  */opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/xml/XmlEscapers.java
  */opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/SignedBytes.java
  */opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
  */opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ComputationException.java
  */opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/Escapers.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/DiscreteDomain.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractMap.java
*/opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Callables.java
*/opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ForwardingFuture.java
*/opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Spliter.java
*/opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Splitter.java
*/opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/AbstractIndexedListIterator.java
*/opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/html/HtmlEscapers.java
*/opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/ArrayBasedEscaperMap.java
*/opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableTable.java
*/opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/ByteArrayDataOutput.java
*/opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableSetMultimap.java
*/opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableAsList.java
*/opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/ByteArrayDataInput.java
*/opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
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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
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  jar/com/google/common/collect/SparseImmutableTable.java
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  jar/com/google/common/collect/ImmutableCollection.java
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  jar/com/google/common/collect/ImmutableCollection.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/hash/SipHashFunction.java
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jar/com/google/common/cache/Weigher.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/TypeToken.java
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1.1209 wildfly-elytron-x500-cert-util

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* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
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jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/util/ASMifier.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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 */
/**
 * 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/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-jar/org/objectweb/asm/tree/ClassNode.java
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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 Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-jar/org/objectweb/asm/util/package.html
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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/xml/SAXAnnotationAdapter.java
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  jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
  jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
  jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
  jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1000772246_1646171509.45/0/asm-debug-all-5-1-sources-
  jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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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 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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analysis/common/src/resources/org/apache/lucene/analysis/ro/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
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1.1217 distro-info-data 0.28ubuntu0.13

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1.1218 commons-lang3 3.10

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1.1219 asm 5.1

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 */
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
```
* constructor. 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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 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
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 * @throws IllegalStateException
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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 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 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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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/Remapping/AnnotationAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2.jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2.jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2.jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2.jar/org/objectweb/asm/ClassReader.java
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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2.jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2.jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2.jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2.jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2.jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2.jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2.jar/org/objectweb/asm/tree/MethodNode.java
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jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java
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Constructs a new @link ClassNode. Subclasses must not use this constructor. Instead, they must use the @link #ClassNode(int) version.

@throws IllegalStateException
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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 3a0982da308228d796df35f98d787c5eff2bb5b6.

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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Bundle-Name: Byte Buddy (without dependencies)
Bundle-Version: 1.9.11
Multi-Release: true
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_201

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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<>

    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,
            // Constructor arguments and fields here


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<>();
                    for (Object item : (List) entry.getValue()) {
                        // process each item
                    }
                } else {
                    throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement header type");
                }
            }
        }
    });
}
@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 {
    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);

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
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;
}

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 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;
    }

    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);
}

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<GetBasicStatusResponse, Void>("get_basic_status_response", true, a -> new GetBasicStatusResponse((boolean) a[0]));

    public static final ConstructingObjectParser<GetBasicStatusResponse, Void> BASIC_PARSERS = new ConstructingObjectParser<GetBasicStatusResponse, Void>("get_basic_status_response", true, a -> new GetBasicStatusResponse((boolean) a[0]));

    private static final ParseField ELIGIBLE_TO_START_BASIC = new ParseField("eligible_to_start_basic");

    private static final ConstructingObjectParser<GetBasicStatusResponse, Void> PARSER = new ConstructingObjectParser<GetBasicStatusResponse, Void>("get_basic_status_response", true, a -> new GetBasicStatusResponse((boolean) a[0]));

    public static final ConstructingObjectParser<GetBasicStatusResponse, Void> BASIC_PARSERS = new ConstructingObjectParser<GetBasicStatusResponse, Void>("get_basic_status_response", true, a -> new GetBasicStatusResponse((boolean) a[0]));

    private static final ParseField ELIGIBLE_TO_START_BASIC = new ParseField("eligible_to_start_basic");

    private static final ConstructingObjectParser<GetBasicStatusResponse, Void> PARSER = new ConstructingObjectParser<GetBasicStatusResponse, Void>("get_basic_status_response", true, a -> new GetBasicStatusResponse((boolean) a[0]));

    public static final ConstructingObjectParser<GetBasicStatusResponse, Void> BASIC_PARSERS = new ConstructingObjectParser<GetBasicStatusResponse, Void>("get_basic_status_response", true, a -> new GetBasicStatusResponse((boolean) a[0]));

    private static final ParseField ELIGIBLE_TO_START_BASIC = new ParseField("eligible_to_start_basic");

    private static final ConstructingObjectParser<GetBasicStatusResponse, Void> PARSER = new ConstructingObjectParser<GetBasicStatusResponse, Void>("get_basic_status_response", true, a -> new GetBasicStatusResponse((boolean) a[0]));

    public static final ConstructingObjectParser<GetBasicStatusResponse, Void> BASIC_PARSERS = new ConstructingObjectParser<GetBasicStatusResponse, Void>("get_basic_status_response", true, a -> new GetBasicStatusResponse((boolean) a[0]));

    private static final ParseField ELIGIBLE_TO_START_BASIC = new ParseField("eligible_to_start_basic");

    private static final ConstructingObjectParser<GetBasicStatusResponse, Void> PARSER = new ConstructingObjectParser<GetBasicStatusResponse, Void>("get_basic_status_response", true, a -> new GetBasicStatusResponse((boolean) a[0]));

    public static final ConstructingObjectParser<GetBasicStatusResponse, Void> BASIC_PARSERS = new ConstructingObjectParser<GetBasicStatusResponse, Void>("get_basic_status_response", true, a -> new GetBasicStatusResponse((boolean) a[0]));

    private static final ParseField ELIGIBLE_TO_START_BASIC = new ParseField("eligible_to_start_basic");

    private static final ConstructingObjectParser<GetBasicStatusResponse, Void> PARSER = new Constructs...
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);
}

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 */
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 {
                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);
    },
    new ParseField("acknowledge"));
}

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;
    if (!super.equals(o)) return false;
    PutLicenseResponse that = (PutLicenseResponse) o;
    return status == that.status &&
            ProtocolUtils.equals(acknowledgeMessages, that.acknowledgeMessages) &&
            Objects.equals(acknowledgeHeader, that.acknowledgeHeader);

    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);
}
*/

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());
});

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]));
            }
        }
    }
});
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.");

    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 + "]");
    }
}

private StartBasicResponse.Status status;

private StartBasicResponse(StartBasicResponse.Status status) {
    this(status, Collections.emptyMap(), null);
}

private StartBasicResponse(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 != StartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;
}

public boolean isBasicStarted() {
    return status.isBasicStarted;
}

public String getErrorMessage() {
    return status.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);
}

public TimedRequest startBasicRequest() {
    return new TimedRequest("startBasicRequest");
}

package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

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import org.elasticsearch.client.license;
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;
    }
}

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 * specific language governing permissions and limitations under the License.
 */

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 {

} /*
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 * under the License.
 */
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 String getLicenseDefinition() {
        return licenseDefinition;
    }

    public void setAcknowledge(boolean acknowledge) {
        this.acknowledge = acknowledge;
    }

    public boolean isAcknowledge() {
        return acknowledge;
    }

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    * specific language governing permissions and limitations
    * under the License.
    */

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 void setLocal(boolean local) {
        this.local = local;
    }
}

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 * under the License.
 */
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 byte id() {
        return id;
    }

    public static LicensesStatus valueOf(byte id) {
        switch (id) {
            case 0:
                return VALID;
            case 1:
                return INVALID;
            case 2:
                return EXPIRED;
            default:
                throw new IllegalArgumentException("Not a known status: "+id);
        }
    }
}

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 byte id() {
        return id;
    }

    public static LicensesStatus valueOf(byte id) {
        switch (id) {
            case 0:
                return VALID;
            case 1:
                return INVALID;
            case 2:
                return EXPIRED;
            default:
                throw new IllegalArgumentException("Not a known status: "+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+"]");
    }
}

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* APIs.
*/
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*/
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 toString() {
        return 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:
        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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  jar/org/wildfly/security/keystore/PasswordKeyStoreSpi.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/spec/IteratedSaltedPasswordAlgorithmSpec.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/keystore/WrappingPasswordKeyStoreSpiImpl.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/interfaces/SunUnixMD5CryptPassword.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/interfaces/BCryptPassword.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/spec/SaltedPasswordAlgorithmSpec.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/keystore/PasswordEntry.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/util/ModularCrypt.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/OneWayPassword.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/interfaces/UnixMD5CryptPassword.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/interfaces/SaltedSimpleDigestPassword.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/credential/_private/ElytronMessages.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/interfaces/ScramDigestPassword.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/keystore/WrappingPasswordKeyStore.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password>PasswordFactory.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/interfaces/BSDUnixDESCryptPassword.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/interfaces/ScramDigestPassword.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/interfaces/UnixSHACryptPassword.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password>PasswordFactorySpi.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
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* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-jar/org/wildfly/security/credential/X509CertificateChainCredential.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-jar/org/wildfly/security/credential/X509CertificateChainPublicCredential.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-jar/org/wildfly/security/key/WildFlyElytronKeyProvider.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-jar/org/wildfly/security/password/package-info.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-jar/org/wildfly/security/credential/package-info.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-jar/org/wildfly/security/credential/package-info.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-jar/org/wildfly/security/credential/package-info.java
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  jar/org/wildfly/security/password/spec/DigestPasswordSpec.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/interfaces/DigestPassword.java

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* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/interfaces/Password.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/interfaces/TwoWayPassword.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
  jar/org/wildfly/security/password/spec/PasswordSpec.java
* /opt/cola/permits/1260753183_1643213240.93/0/wildfly-elytron-credential-1-11-4-final-sources-
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1.1247 x-xerrors 0.0.0-20191204190536-9bdfabe68543

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/**
 * Encodes and decodes to and from Base64 notation. 
 * Change Log:
 * <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 (int OR to together).</li>
 * <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).</li>
 * <li>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.</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>
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 * @author rob@iharder.net
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 * @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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  jar/org/infinispan/commons/util/concurrent/ConcurrentWeakKeyHashMap.java

1.1250 cxf-rt-features-logging 3.3.6
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jar/reactor/core/publisher/MonoLiftFuseable.java
*/
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxUsingWhen.java
*/
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/ConnectableLiftFuseable.java
*/
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxMetricsFuseable.java
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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/FluxDoOnEachFuseable.java
*/
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxMergeOrdered.java
*/
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/Traces.java
*/
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/GroupedLiftFuseable.java
*/
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/GroupedLift.java
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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/QueueDrainSubscriber.java
*/
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoDoOnEach.java
*/
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoDoOnEachFuseable.java
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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
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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/MonoExpand.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
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jar/reactor/core/publisher/InternalConnectableFluxOperator.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/scheduler/ReactorBlockHoundIntegration.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/ContextTrackingFunctionWrapper.java
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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
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jar/reactor/core/scheduler/Scheduler.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/BasePublisher.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/ParallelFluxHide.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxDefaultIfEmpty.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoError.java
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  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/AbstractCorePublisher.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
  jar/reactor/core/publisher/AbstractPublisher.java

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  jar/org/eclipse/jgit/revwalk/filter/MaxCountRevFilter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/api/DeleteTagCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/revwalk/filter/SkipRevFilter.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/api/PullResult.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/PackReverseIndex.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/io/TimeoutInputStream.java

/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/util/io/UnionInputStream.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/RevTree.java
* /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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jar/org/eclipse/jgit/events/IndexChangedListener.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/CanceledException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/errors/InvalidConfigurationException.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/FastIgnoreRule.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.
 * <p>
 * @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/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/revwalk/FooterLine.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/ObjectDirectory.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/RepositoryCache.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2- jar/org/eclipse/jgit/revwalk/filter/PathSuffixFilter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2- jar/org/eclipse/jgit/util/LongMap.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/util/RawSubStringPattern.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/util/FS_Win32.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revwalk/DelayRevQueue.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/errors/StopWalkException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revwalk/LIFORevQueue.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revwalk/FixUninterestingGenerator.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revwalk/CachedAuthenticator.java
* /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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  jar/org/eclipse/jgit/revwalk/StartGenerator.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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jar/org/eclipse/jgit/internal/storage/pack/BinaryDelta.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5.0.2-21807311906-r-sources-2-
jar/org/eclipse/jgit/errors/EntryExistsException.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/hooks/PrePushHook.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/FetchProcess.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/SideBandInputStream.java
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jar/org/eclipse/jgit/transport/TransportLocal.java
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  jar/org/eclipse/jgit/errors/UnsupportedCredentialItem.java
* /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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jar/org/eclipse/jgit/errors/IncorrectObjectTypeException.java
* /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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  jar/org/eclipse/jgit/patch/CombinedFileHeader.java
  */opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/transport/ReceiveCommand.java
  */opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/transport/PostReceiveHook.java
  */opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/util/QuotedString.java
  */opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/patch/FormatError.java
  */opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/transport/PreReceiveHook.java
  */opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/patch/CombinedHunkHeader.java
  */opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/treewalk/NameConflictTreeWalk.java

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  jar/org/eclipse/jgit/api/errors/PatchApplyException.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/dfs/DfsBlock.java

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* */
/**<p>
Fetch objects we don't have but that are reachable from advertised refs.
</p>
<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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jar/org/eclipse/jgit/transport/FetchConnection.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/SubmoduleAddCommand.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/file/InfoAttributesNode.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/AddNoteCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/api/ReflogCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/api/RemoveNoteCommand.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/time/ReplicaPushRequest.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/util/time/ReplicaSnapshot.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/TranslationBundleLoadingException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/errors/TranslationBundleException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/notes/DefaultNoteMerger.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/notes/NoteMapMerger.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/nls/TranslationBundle.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/nls/NLS.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit(errors/TranslationStringMissingException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/errors/NoteMerger.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/notes/NotesMergeConflictException.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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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/reftable/ReftableReader.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/reftable/BlockWriter.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/dfs/DfsBatchRefUpdate.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/dfs/DfsReaderIoStats.java
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* /opt/cola/permits/1110676752_16068343642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/dircache/BaseDirCacheEditor.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/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/filter/RevFilter.java
*/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/errors/CompoundException.java
*/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/treewalk/filter/TreeFilter.java
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  jar/org/eclipse/jgit/internal/storage/file/ByteArrayWindow.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/errors/CommandFailedException.java

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  jar/org/eclipse/jgit/internal/storage/file/GcLog.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/revwalk/DepthWalk.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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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/util/ChangeIdUtil.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/NameRevCommand.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/file/RefDirectory.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-jar/org/eclipse/jgit/api/StashDropCommand.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/DaemonClient.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/BundleWriter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/UploadPack.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/RefAdvertiser.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/SideBandProgressMonitor.java
* /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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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/treewalk/AbstractTreeIterator.java

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  jar/org/eclipse/jgit/transport/PostUploadHook.java
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  jar/org/eclipse/jgit/dircache/DirCacheBuildIterator.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/Holder.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/AutoLFOutputStream.java

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  jar/org/eclipse/jgit/blame/ReverseWalk.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/diff/RawTextComparator.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/ConfigSnapshot.java

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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Member.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ CtConstructor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/ArrayInitInit.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ bytecode/Mnemonic.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ bytecode/SignatureAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Parser.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/DefineClassHelper.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java

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com.fasterxml.jackson.core.JsonFactory

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* /opt/cola/permits/1260753880_1643213334.69/0/wildfly-elytron-sasl-1-11-4-final-sources-jar/org/wildfly/security/sasl/util/PrivilegedSaslServer.java
* /opt/cola/permits/1260753880_1643213334.69/0/wildfly-elytron-sasl-1-11-4-final-sources-jar/org/wildfly/security/sasl/util/SocketAddressCallbackSaslServerFactory.java
* /opt/cola/permits/1260753880_1643213334.69/0/wildfly-elytron-sasl-1-11-4-final-sources-jar/org/wildfly/security/sasl/util/SaslWrapper.java

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1.1273 ecdsa 0.15

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1.1275 zlib 1.2.5

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1.1276 picketlink-impl 2.5.5.SP12-redhat-00006

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1.1278 fuse 2.9.4-1ubuntu3.1

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  jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/CompressionUtil.java
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 * <p>
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  jar/io/netty/handler/codec/EmptyHeaders.java
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  jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
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* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-

jar/io/netty/handler/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/compression/Bzip2Decoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/codec/MessageAggregationException.java

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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/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
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* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/Delimiters.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/DecoderException.java
jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/string/StringEncoder.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.
 * <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.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 * <p>
 * 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.
 * <p>
 * <pre>
 * &lt;b&gt;lengthFieldOffset&lt;/b&gt;   = &lt;b&gt;0&lt;/b&gt;
 * &lt;b&gt;lengthFieldLength&lt;/b&gt;    = &lt;b&gt;2&lt;/b&gt;
 * lengthAdjustment    = 0
 * initialBytesToStrip = 0 (= do not strip header)
 * </pre>
 * <p>
 * BEFORE DECODE (14 bytes)   AFTER DECODE (14 bytes)
 * +------------------------+   +------------------------+

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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
initialBytesToStrip = 2
```

**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>`.

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = -2
initialBytesToStrip = 0
```

**BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)**
```
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>  
* 
* 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>  
* 
* <h3>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>  
* 
* <h3>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>`.
* 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)

* +----------------+----------------+* +----------------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "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, 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 <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
* <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" |
* +----------------+----------------+* +----------------+----------------+
* </pre>
* @see LengthFieldPrepender
*/

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* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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 */

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

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* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/setup.py
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_version.py
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_tools/protoc.py
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/BUILD.bazel
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_tools/command.py
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/BUILD
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_tools/__init__.py
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/protoc_lib_deps.py
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_tools/_protoc_compiler.pyx

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* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/status.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/ext/channelz_service_plugin.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/server_builder.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/credentials.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/server_credentials.h
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* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1.37.0.tar.gz/grpcio-tools-1.37.0/grpc_root/include/grpc/grpcpp/support/method_handler.h
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/// If set, grpc is free to use the HTTP GET verb for sending the request,

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1.37.0/grpc_root/include/grpcpp/impl/server_builder_plugin.h
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1.37.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/timestamp_duration.proto
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_bootstrap_unittest.cc
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/util/internal/object_writer.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/util/internal/json_util.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_builder.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers.cc
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_helpers.cc
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/parser.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_enum.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/stubs/statusor.cc
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1.37.0/third_party/protobuf/src/google/protobuf/stubs/status.cc
1.37.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/wrappers.proto
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/test_plugin.cc
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* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/duration.proto
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/unittest_embed_optimize_for.proto
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* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_enum_lite.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/stringpiece_unittest.cc
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* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_extension.cc
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_padding_optimizer.cc
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* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto_unittest.cc
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* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto_stubs/statusor_test.cc
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto_stubs/stubs_camelize.cc
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto_stubs/stubs_kebapize.cc
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* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto_stubs/stubs_kebabize.cc
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto_stubs/stubs_lower_camelize.cc
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto_stubs/stubs_snakeize.cc
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto_stubs/stubs_snakeize.cpp
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto_stubs/stubs-dashize.cc
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto_stubs/stubs-upper-case.cc
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto_stubs/stubs_uppercase.cc
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto_stubs/stubs_capitalize.cc
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/proto_stubs/stubs-camelize.cc
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Metadata-Version: 1.1
Name: grpcio-tools
Version: 1.37.0
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 `:code:`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 $OFFENDINGDEPENDENCY`

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:

::

'SIGNED_INT_MAX'
    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 :code:`-fwrapv` flag is specified. You should consider setting your
environment with :code:`CFLAGS=-fno-wrapv` or using clang (:code:`CC=clang`).

Usage
-----

Given protobuf include directories :code:`$INCLUDE`, an output directory
:code:`$OUTPUT`, and proto files :code:`$PROTO_FILES`, invoke as:
To use as a build step in distutils-based projects, you may use the provided command class in your `setup.py`:

```python
setup tools.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](https://pypi.python.org/pypi/grpcio-health-checking):

```python
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 `grpcio-tools` in `setup_requires` will provide the command on-setup as desired.

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

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
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Found in path(s):
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/channel_argument_option.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync_custom.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/mock_stream.h
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* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/fork.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/cpp/fork.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/load_reporting.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpccpp/impl/codegen/byte_buffer.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpccpp/impl/codegen/error_details.h

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* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpccpp/impl/codegen/server_callback.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-
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* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0.tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/structurally_valid_unittest.cc
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* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0.tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/message_allocator.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0.tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/sync_stream.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0.tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/async_stream.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0.tar-gz/grpcio-tools-1.37.0/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/client_callback.h
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0.tar-gz/grpcio-tools-1.37.0/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_callback_handlers.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
* more details. **/

Found in path(s):
* /opt/cola/permits/1265910041_1643966228.74/0/grpcio-tools-1-37-0-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/tls_credentials_options.h

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/* "grpc_tools/_protoc_compiler.pyx":1
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* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-jar/org/wildfly/common/rpc/RemoteExceptionCause.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-jar/org/wildfly/common/codec/package-info.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-jar/org/wildfly/common/iteration/Utf8EncodingByteIterator.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-jar/org/wildfly/common/iteration/IndexIterator.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-jar/org/wildfly/common/iteration/LittleEndianBase64EncodingIterator.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-jar/org/wildfly/common/iteration/ByteBufferIterator.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-jar/org/wildfly/common/iteration/package-info.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-jar/org/wildfly/common/net/package-info.java
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* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/annotation/NotNull.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/_private/CommonMessages.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionIntFunction.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/package-info.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/context/ContextManager.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/context/package-info.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/context/ContextPermission.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionFunction.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionBiConsumer.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionToIntFunction.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/context/package-info.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionBiPredicate.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionLongFunction.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionUnaryOperator.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/context/package-info.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionPredicate.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionObjLongConsumer.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionSupplier.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionRunnable.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionObjIntConsumer.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/context/ContextPermissionCollection.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/annotation/Nullable.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionToIntBiFunction.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
jar/org/wildfly/common/function/ExceptionBiFunction.java

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* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/os/Substitutions.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/flags/Flags.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/array/Arrays2.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/os/GetProcessInfoAction.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/net/GetHostInfoAction.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/Branch.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/lock/ExtendedReentrantLock.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/iteration/EnumerationIterator.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/array/ArrayIterator.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/net/Substitutions.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/lock/Locks.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/lock/ExtendedLock.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/lock/Substitutions.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/net/URIs.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/lock/JDKSpecific.java
* /opt/cola/permits/1260754061_1643213249.31/0/wildfly-common-1-5-2-final-sources-
  jar/org/wildfly/common/os/ProcessRedirect.java
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  jar/org/wildfly/common/Assert.java

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- tests/iojs/test-http-parser-durability.js

This file is from https://github.com/mscedex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js
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- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
tests/test.py
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@firebase/firestore-types@1.13.0
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gaxios@3.2.0
URL: https://github.com/googleapis/gaxios.git
VendorName: Google, LLC
gcp-metadata@4.2.0
URL: https://github.com/googleapis/gcp-metadata.git
VendorName: Stephen Sawchuk
google-auth-library@6.0.6
URL: https://github.com/googleapis/google-auth-library-nodejs.git
VendorName: Google Inc.
localforage@1.8.1
URL: git://github.com/localForage/localForage.git
VendorName: Mozilla
VendorUrl: https://github.com/localForage/localForage
long@4.0.0
URL: https://github.com/dcodeIO/long.js.git
VendorName: Daniel Wirtz
neo4j-driver@4.1.2
URL: git://github.com/neo4j/neo4j-javascript-driver.git
VendorName: Neo4j
oauth-sign@0.9.0
URL: https://github.com/mikeal/oauth-sign
VendorName: Mikeal Rogers
VendorUrl: http://www.futurealoof.com
request@2.88.2
URL: https://github.com/request/request.git
VendorName: Mikeal Rogers
rxjs@5.5.12
URL: git@github.com:ReactiveX/RxJS.git
VendorName: Ben Lesh
VendorUrl: https://github.com/ReactiveX/RxJS
rxjs@6.6.3
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VendorName: Ben Lesh
VendorUrl: https://github.com/reactivex/rxjs
tunnel-agent@0.6.0
URL: https://github.com/mikeal/tunnel-agent
VendorName: Mikeal Rogers
VendorUrl: http://www.futurealoof.com
websocket-driver@0.7.4
URL: git://github.com/faye/websocket-driver-node.git
VendorName: James Coglan
VendorUrl: https://github.com/faye/websocket-driver-node
websocket-extensions@0.1.4
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VendorName: James Coglan
VendorUrl: http://github.com/faye/websocket-extensions-node

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antlr4@4.7.0
URL: https://github.com/antlr/antlr4.git
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BSD-2-Clause
escodegen@1.14.3
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VendorUrl: http://github.com/estools/escodegen
esprima@4.0.1
URL: https://github.com/jquery/esprima.git
VendorName: Ariya Hidayat
VendorUrl: http://esprima.org/
estraverse@4.3.0
URL: http://github.com/estools/estraverse.git
VendorUrl: https://github.com/estools/estraverse
esutils@2.0.3
URL: http://github.com/estools/esutils.git
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
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@protobufjs/codegen@2.0.4
URL: https://github.com/dcodeIO/protobuf.js.git
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@protobufjs/eventemitter@1.1.0
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@protobufjs/inquire@1.1.0
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@protobufjs/pool@1.1.0
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@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
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@sentry/core@5.29.0
URL: git://github.com/getsentry/sentry-javascript.git
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@sentry/minimal@5.27.0
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URL: git://github.com/getsentry/sentry-javascript.git
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bcrypt-pbkdf@1.0.2
URL: git://github.com/joyent/node-bcrypt-pbkdf.git
buffer-equal-constant-time@1.0.1
URL: git@github.com:goinstant/buffer-equal-constant-time.git
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d3@3.5.17
URL: https://github.com/mbostock/d3.git
VendorName: Mike Bostock
VendorUrl: http://d3js.org/
exenv@1.2.2
URL: https://github.com/JedWatson/exenv.git
VendorName: Jed Watson
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hoist-non-react-statics@2.5.5
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VendorName: Michael Ridgway
hoist-non-react-statics@3.3.2
URL: git://github.com/mridgway/hoist-non-react-statics.git
VendorName: Michael Ridgway
moo@0.4.3
URL: https://github.com/tjvr/moo.git
VendorName: Tim Radvan
moo@0.5.1
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protobufjs@6.10.1
URL: https://github.com/protobufjs/protobuf.js.git
VendorName: Daniel Wirtz
VendorUrl: http://dcode.io/protobuf.js
qs@6.5.2
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source-map@0.5.7
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source-map@0.6.1
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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/ahmadnassri/har-schema.git
VendorName: Ahmad Nassri
VendorUrl: https://github.com/ahmadnassri/har-schema
idb@3.0.2
URL: git://github.com/jakearchibald/indexeddb-promised.git
VendorName: Jake Archibald
inherits@2.0.4
URL: git://github.com/isaacs/inherits
json-stringify-safe@5.0.1
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VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/json-stringify-safe
lru-cache@6.0.0
URL: git://github.com/isaacs/node-lru-cache.git
VendorName: Isaac Z. Schlueter
react-placeholder@3.0.2
URL: git@github.com:buildo/react-placeholder
VendorName: Francesco Cioria
VendorUrl: https://github.com/buildo/react-placeholder
require-main-filename@2.0.0
URL: git+ssh://git@github.com/yargs/require-main-filename.git
VendorName: Ben Coe
VendorUrl: https://github.com/yargs/require-main-filename#readme
sax@1.2.4
URL: git://github.com/isaacs/sax-js.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
semver@5.7.1
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VendorUrl: https://github.com/yargs/set-blocking#readme
which-module@2.0.0
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y18n@4.0.0
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VendorUrl: https://github.com/yargs/y18n
yallist@4.0.0
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yaml@1.10.0
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VendorName: Eemeli Aro
VendorName: Logan Smyth
VendorUrl: https://babeljs.io/
@babel/helper-split-export-declaration@7.11.0
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@babel/helper-validator-identifier@7.10.4
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@babel/highlight@7.10.4
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VendorUrl: https://babeljs.io/
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VendorName: mitchellhamilton
@emotion/css@10.0.27
VendorName: John Otander
VendorUrl: https://mdxjs.com/
@scarf/scarf@0.1.7
URL: git+https://github.com/scarf-sh/scarf-js.git
VendorName: Scarf Systems
VendorUrl: https://github.com/scarf-sh/scarf-js
@semantic-ui-react/event-stack@3.1.1
URL: https://github.com/layershifter/event-stack
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@sentry/tracing@5.27.0
URL: git://github.com/getsentry/sentry-javascript.git
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@stardust-ui/react-component-event-listener@0.38.0
URL: https://github.com/stardust-ui/react.git
VendorName: Oleksandr Fediashov
VendorUrl: https://github.com/stardust-ui/react/tree/master/packages/react-component-event-listener
@stardust-ui/react-component-ref@0.38.0
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URL: https://github.com/DefinitelyTyped/DefinitelyTyped.git
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@types/d3@3.5.44
URL: https://github.com/DefinitelyTyped/DefinitelyTyped.git
@types/datetimeformat@3.0.1
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URL: https://github.com/DefinitelyTyped/DefinitelyTyped.git
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@types/parse-json@4.0.0
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URL: https://github.com/sindresorhus/camelcase.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
camelize@1.0.0
URL: git://github.com/substack/camelize.git
VendorName: James Halliday
VendorUrl: https://github.com/substack/camelize
canvg@1.5.3
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VendorName: Gabe Lerner
VendorUrl: https://github.com/canvg/canvg
ccount@1.0.5
URL: https://github.com/wooorm/ccount.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
chalk@2.4.2
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character-entities-legacy@1.1.4
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character-entities@1.2.4
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character-reference-invalid@1.1.4
URL: https://github.com/wooorm/character-reference-invalid.git
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VendorUrl: https://wooorm.com
classnames@2.2.6
URL: https://github.com/JedWatson/classnames.git
VendorName: Jed Watson
codemirror@5.57.0
URL: https://github.com/codemirror/CodeMirror.git
VendorName: Marijn Haverbeke
VendorUrl: https://codemirror.net/
collapse-white-space@1.0.6
URL: https://github.com/wooorm/collapse-white-space.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
color-convert@1.9.3
URL: https://github.com/Qix-/color-convert.git
VendorName: Heather Arthur
color-convert@2.0.1
URL: https://github.com/Qix-/color-convert.git
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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
URL: git@github.com:colorjs/color-name.git
VendorName: DY
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
commander@2.20.3
URL: https://github.com/tj/commander.js
VendorName: TJ Holowaychuk
convert-source-map@1.7.0
URL: git://github.com/thlorenz/convert-source-map.git
VendorName: Thorsten Lorenz
VendorUrl: https://github.com/thlorenz/convert-source-map
core-js@2.6.11
URL: https://github.com/zloirock/core-js.git
core-js@3.6.5
URL: https://github.com/zloirock/core-js.git
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
cREATE-REACT-CONTEXT@0.3.0
URL: https://github.com/thejameskyle/create-react-context
VendorName: James Kyle
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
cssom@0.3.8
URL: https://github.com/NV/CSSOM.git
VendorName: Nikita Vasilyev
cssststyle@0.2.37
URL: https://github.com/chad3814/CSSStyleDeclaration.git
VendorUrl: https://github.com/chad3814/CSSStyleDeclaration
csstype@2.6.13
URL: https://github.com/frenic/csstype
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csstype@3.0.3
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dashdash@1.14.1
  URL: git://github.com/trentm/node-dashdash.git
VendorName: Trent Mick
  VendorUrl: http://trentm.com
dateformat@3.0.3
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VendorName: Steven Levithan
  VendorUrl: https://github.com/felixge/node-dateformat
debug@4.1.1
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VendorName: TJ Holowaychuk
decamelize@1.2.0
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  VendorUrl: sindresorhus.com
deep-equal@1.1.1
  URL: http://github.com/substack/node-deep-equal.git
VendorName: James Halliday
  VendorUrl: http://substack.net
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VendorName: Thorsten Lorenz
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deepmerge@2.2.1
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define-properties@1.1.3
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VendorName: Jordan Harband
delayed-stream@1.0.0
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VendorName: Felix Geisendrfer
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detab@2.0.3
  URL: https://github.com/wooorm/detab.git
VendorName: Titus Wormer
  VendorUrl: https://wooorm.com
discontinuous-range@1.0.0
  URL: https://github.com/dtudury/discontinuous-range.git
VendorName: David Tudury
VendorUrl: https://github.com/dtudury/discontinuous-range
dnd-core@9.5.1
URL: https://github.com/react-dnd/react-dnd.git
ecc-jsbn@0.1.2
URL: https://github.com/quartzjer/ecc-jsbn.git
VendorName: Jeremie Miller
VendorUrl: https://github.com/quartzjer/ecc-jsbn
emoji-regex@8.0.0
URL: https://github.com/mathiasbynens/emoji-regex.git
VendorName: Mathias Bynens
VendorUrl: https://mths.be/emoji-regex
coding@0.1.13
URL: https://github.com/andris9/encoding.git
VendorName: Andris Reinman
error-ex@1.3.2
URL: https://github.com/qix-/node-error-ex.git
es-abstract@1.17.6
URL: git://github.com/ljharb/es-abstract.git
VendorName: Jordan Harband
VendorUrl: http://ljharb.codes
es-abstract@1.18.0-next.0
URL: git://github.com/ljharb/es-abstract.git
VendorName: Jordan Harband
VendorUrl: http://ljharb.codes
es-to-primitive@1.2.1
URL: git://github.com/ljharb/es-to-primitive.git
VendorName: Jordan Harband
escape-string-regexp@1.0.5
URL: https://github.com/sindresorhus/escape-string-regexp.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
event-target-shim@5.0.1
URL: https://github.com/mysticatea/event-target-shim.git
VendorName: Toru Nagashima
VendorUrl: https://github.com/mysticatea/event-target-shim
extend@3.0.2
URL: https://github.com/justmoon/node-extend.git
VendorName: Stefan Thomas
VendorUrl: http://www.justmoon.net
extract-files@9.0.0
URL: https://github.com/jaydenseric/extract-files.git
VendorName: Jayden Seric
VendorUrl: https://github.com/jaydenseric/extract-files#readme
extsprintf@1.3.0
URL: git://github.com/davepacheco/node-extsprintf.git
extsprintf@1.4.0
URL: git://github.com/davepacheco/node-extsprintf.git
faker@4.1.0
URL: git+https://github.com/apollographql/graphql-tag.git
VendorUrl: https://github.com/apollographql/graphql-tag#readme
graphql@15.3.0
URL: https://github.com/graphql/graphql-js.git
VendorUrl: https://github.com/graphql/graphql-js
gtoken@5.0.3
URL: https://github.com/google/node-gtoken.git
VendorName: Google, LLC
gud@1.0.0
URL: https://github.com/jamiebuilds/global-unique-id
VendorName: Jamie Kyle
har-validator@5.1.5
URL: https://github.com/ahmadnassri/node-har-validator.git
VendorName: Ahmad Nassri
VendorUrl: https://github.com/ahmadnassri/node-har-validator
has-flag@3.0.0
URL: https://github.com/sindresorhus/has-flag.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
has-symbols@1.0.1
URL: git://github.com/ljharb/has-symbols.git
VendorName: Jordan Harband
VendorUrl: http://ljharb.codes
has@1.0.3
URL: git://github.com/tarruda/has.git
VendorName: Thiago de Arruda
VendorUrl: https://github.com/tarruda/has
hast-to-hyperscript@9.0.0
URL: https://github.com/syntax-tree/hast-to-hyperscript.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
hast-util-from-parse5@6.0.0
URL: https://github.com/syntax-tree/hast-util-from-parse5.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
hast-util-parse-selector@2.2.4
URL: https://github.com/syntax-tree/hast-util-parse-selector.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
hast-util-raw@6.0.1
URL: https://github.com/syntax-tree/hast-util-raw.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
hast-util-to-parse5@6.0.0
URL: https://github.com/syntax-tree/hast-util-to-parse5.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
hastscript@5.1.2
URL: https://github.com/syntax-tree/hastscript.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
html-void-elements@1.0.5
URL: https://github.com/wooorm/html-void-elements.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
http-parser-js@0.5.2
URL: git://github.com/creationix/http-parser-js.git
VendorName: Tim Caswell
VendorUrl: https://github.com/creationix
http-signature@1.2.0
URL: git://github.com/joyent/node-http-signature.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/joyent/node-http-signature/
https-proxy-agent@5.0.0
URL: git://github.com/TooTallNate/node-https-proxy-agent.git
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/creationix/iconv-lite
iconv-lite@0.6.2
URL: git://github.com/ashtuchkin/iconv-lite.git
VendorName: Alexander Shtuchkin
VendorUrl: https://github.com/creationix/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-alphanumeric@1.0.4
URL: https://github.com/wooorm/is-alphanumeric.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
is-arguments@1.0.4
URL: git://github.com/ljharb/is-arguments.git
VendorName: Jordan Harband
VendorUrl: https://github.com/ljharb/is-arguments
is-arrayish@0.2.1
URL: https://github.com/qix-/node-is-arrayish.git
VendorName: Qix
VendorUrl: http://github.com/qix-
is-buffer@2.0.4
URL: git://github.com/feross/is-buffer.git
VendorName: Feross Aboukhadijeh
VendorUrl: https://feross.org
is-callable@1.2.1
URL: git://github.com/ljharb/is-callable.git
VendorName: Jordan Harband
VendorUrl: http://ljharb.codes
is-date-object@1.0.2
URL: git://github.com/ljharb/is-date-object.git
VendorName: Jordan Harband
is-decimal@1.0.4
URL: https://github.com/wooorm/is-decimal.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
is-fullwidth-code-point@3.0.0
URL: https://github.com/sindresorhus/is-fullwidth-code-point.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-hexadecimal@1.0.4
URL: https://github.com/wooorm/is-hexadecimal.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
is-negative-zero@2.0.0
URL: git://github.com/ljharb/is-negative-zero.git
VendorName: Jordan Harband
VendorUrl: https://github.com/ljharb/is-negative-zero
is-plain-obj@2.1.0
URL: https://github.com/sindresorhus/is-plain-obj.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-regex@1.1.1
URL: git://github.com/ljharb/is-regex.git
VendorName: Jordan Harband
VendorUrl: https://github.com/ljharb/is-regex
is-stream@1.1.0
URL: https://github.com/sindresorhus/is-stream.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-stream@2.0.0
URL: https://github.com/sindresorhus/is-stream.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-symbol@1.0.3
URL: git://github.com/inspect-js/is-symbol.git
VendorName: Jordan Harband
is-typedarray@1.0.0
URL: git://github.com/hughsk/is-typedarray.git
VendorName: Hugh Kennedy
VendorUrl: https://github.com/hughsk/is-typedarray
is-what@3.11.2
URL: git+https://github.com/mesqueeb/is-what.git
VendorName: Luca Ban - Mesqueeb
VendorUrl: https://github.com/mesqueeb/is-what#readme
is-whitespace-character@1.0.4
URL: https://github.com/wooorm/is-whitespace-character.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
is-word-character@1.0.4
URL: https://github.com/wooorm/is-word-character.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
isarray@1.0.0
URL: git://github.com/juliangruber/isarray.git
VendorName: Julian Gruber
VendorUrl: https://github.com/juliangruber/isarray
isomorphic-fetch@2.2.1
URL: https://github.com/matthew-andrews/isomorphic-fetch.git
VendorName: Matt Andrews
VendorUrl: https://github.com/matthew-andrews/isomorphic-fetch/issues
isstream@0.1.2
URL: https://github.com/rvagg/isstream.git
VendorName: Rod Vagg
VendorUrl: https://github.com/rvagg/isstream
js-tokens@4.0.0
URL: https://github.com/lydell/js-tokens.git
VendorName: Simon Lydell
jsbn@0.1.1
URL: https://github.com/andyperlitch/jsbn.git
VendorName: Tom Wu
jsdom@8.5.0
URL: https://github.com/tmpvar/jsdom.git
jsesc@0.5.0
URL: https://github.com/mathiasbynens/jsesc.git
VendorName: Mathias Bynens
VendorUrl: http://mths.be/jsesc
jsesc@2.5.2
URL: https://github.com/mathiasbynens/jsesc.git
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

cjsprim@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
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
lodash.camelize@4.3.0
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/

lodash.uniq@4.5.0
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/

lodash@4.17.15
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/

lodash@4.17.20
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/

loose-envify@1.4.0
URL: git://github.com/zertosh/loose-envify.git
VendorName: Andres Suarez
VendorUrl: https://github.com/zertosh/loose-envify

magic-string@0.25.7
URL: https://github.com/rich-harris/magic-string
VendorName: Rich Harris

markdown-escapes@1.0.4
URL: https://github.com/wooorm/markdown-escapes.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com

mdast-squeeze-paragraphs@4.0.0
URL: https://github.com/syntax-tree/mdast-squeeze-paragraphs.git
VendorName: Eugene Sharygin

mdast-util-definitions@3.0.1
URL: https://github.com/syntax-tree/mdast-util-definitions.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com

mdast-util-to-hast@9.1.1
URL: https://github.com/syntax-tree/mdast-util-to-hast.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com

mdurl@1.0.1
URL: https://github.com/markdown-it/mdurl.git
memoize-one@5.1.1
URL: https://github.com/alexreardon/memoize-one.git
VendorName: Alex Reardon
merge-anything@2.4.4
URL: git+https://github.com/mesqueeb/merge-anything.git
VendorName: Luca Ban - Mesqueeb
VendorUrl: https://github.com/mesqueeb/merge-anything#readme
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://preludels.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
VendorName: Eugene Sharygin  
repeat-string@1.6.1  
URL: https://github.com/jonschlinkert/repeat-string.git  
VendorName: Jon Schlinkert  
VendorUrl: https://github.com/jonschlinkert/repeat-string  
replace-ext@1.0.0  
URL: https://github.com/gulpjs/replace-ext.git  
VendorName: Gulp Team  
VendorUrl: http://gulpjs.com/  
require-directory@2.1.1  
URL: git://github.com/troygoode/node-require-directory.git  
VendorName: Troy Goode  
VendorUrl: https://github.com/troygoode/node-require-directory/  
requires-port@1.0.0  
URL: https://github.com/unshiftio/requires-port  
VendorName: Arnout Kazemier  
VendorUrl: https://github.com/unshiftio/requires-port  
resolve-from@4.0.0  
URL: https://github.com/sindresorhus/resolve-from.git  
VendorName: Sindre Sorhus  
VendorUrl: sindresorhus.com  
resolve@1.17.0  
URL: git://github.com/browserify/resolve.git  
VendorName: James Halliday  
VendorUrl: http://substack.net  
ret@0.1.15  
URL: git://github.com/fent/ret.js.git  
VendorName: Roly Fentanes  
VendorUrl: https://github.com/fent  
safe-buffer@5.1.2  
URL: git://github.com/feross/safe-buffer.git  
VendorName: Feross Aboukhadijeh  
VendorUrl: https://github.com/feross/safe-buffer  
safe-buffer@5.2.1  
URL: git://github.com/feross/safe-buffer.git  
VendorName: Feross Aboukhadijeh  
VendorUrl: https://github.com/feross/safe-buffer  
safer-buffer@2.1.2  
URL: git+https://github.com/ChALkeR/safer-buffer.git  
VendorName: Nikita Skovoroda  
VendorUrl: https://github.com/ChALkeR  
scheduler@0.19.1  
URL: https://github.com/facebook/react.git  
VendorUrl: https://reactjs.org/  
semantic-ui-react@0.88.2  
URL: git+ssh://github.com/Semantic-Org/Semantic-UI-React.git  
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

sourcemap-codec@1.4.8
  URL: https://github.com/Rich-Harris/sourcemap-codec
  VendorName: Rich Harris
  VendorUrl: https://github.com/Rich-Harris/sourcemap-codec

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

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/remik/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/

VendorName: Sultan Tarimo

styles-rule-sheet@0.0.10
URL: https://github.com/thysultan/stylis.js
VendorName: Sultan Tarimo
VendorUrl: https://github.com/thysultan/stylis.js

styles@3.5.4
URL: https://github.com/thysultan/stylis.js
VendorName: Sultan Tarimo
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

symbol-observable@1.2.0
URL: https://github.com/blesh/symbol-observable.git
VendorName: Ben Lesh

symbol-observable@2.0.1
URL: https://github.com/blesh/symbol-observable.git
VendorName: Ben Lesh

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
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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
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URL: https://github.com/mathiasbynens/unicode-canonical-property-names-ecmascript.git
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unist-builder@2.0.3
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unist-util-generated@1.1.5
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unist-util-is@4.0.2
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unist-util-remove-position@2.0.1
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url-parse@1.4.7
URL: https://github.com/unshiftio/url-parse.git
VendorName: Arnout Kazemier
tutil-deprecate@1.0.2
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uuid@3.4.0
URL: https://github.com/uuidjs/uuid.git
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URL: git://github.com/davepacheco/node-verror.git
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zen-observable@0.8.15
URL: https://github.com/zenparsing/zen-observable.git
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  VendorName: Erik Arvidsson
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WTFPL
xml-name-validator@2.0.1
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* /opt/cola/permits/1136045091_1613664852.54/0/slf4j-jdk14-1-7-30-sources-1-
  jar/org/slf4j/impl/StaticMDCBinder.java
* /opt/cola/permits/1136045091_1613664852.54/0/slf4j-jdk14-1-7-30-sources-1-
  jar/org/slf4j/impl/JDK14LoggerAdapter.java
* /opt/cola/permits/1136045091_1613664852.54/0/slf4j-jdk14-1-7-30-sources-1-
  jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1136045091_1613664852.54/0/slf4j-jdk14-1-7-30-sources-1-
  jar/org/slf4j/impl/JDK14LoggerFactory.java
```

1.1308 certifi 2019.9.11

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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:
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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.1309 base-passwd 3.5.39

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* /opt/ws_local/PERMITS_SQL/1045086033_1591129409.65/0/opensaml-xacml-saml-api-3-3-1-sources-
  jar/org/opensaml/xacml/profile/saml/XACMLPolicyStatementType.java
* /opt/ws_local/PERMITS_SQL/1045086033_1591129409.65/0/opensaml-xacml-saml-api-3-3-1-sources-
  jar/org/opensaml/xacml/profile/saml/XACMLAuthzDecisionQueryType.java
* /opt/ws_local/PERMITS_SQL/1045086033_1591129409.65/0/opensaml-xacml-saml-api-3-3-1-sources-
  jar/org/opensaml/xacml/profile/saml/XACMLPolicyQueryType.java
* /opt/ws_local/PERMITS_SQL/1045086033_1591129409.65/0/opensaml-xacml-saml-api-3-3-1-sources-
  jar/org/opensaml/xacml/profile/saml/package-info.java
* /opt/ws_local/PERMITS_SQL/1045086033_1591129409.65/0/opensaml-xacml-saml-api-3-3-1-sources-
  jar/org/opensaml/xacml/profile/saml/ReferencedPoliciesType.java

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1.1329 reindex-client 6.8.0

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapterBuilder.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttIdentifierRejectedException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/spdy/client/SpdyClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/stomp/StompContentSubframe.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/spdy/server/SpdyOrHttpHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageIdVariableHeader.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubAckPayload.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/server/HelloWorldHttp1Handler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2DataFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2DataFrame.java
*/
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
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/**
 * Utility class for { @link ByteBuf} that encodes and decodes to and from
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/Http2UnknownFrame.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/BidnsQueryLifecycleObserver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/ObjectCleaner.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/HostsFileEntries.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/logging/Log4JLogger.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameEncoder.java
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Adaptation of http://bjoern.hoehrmann.de/utf-8/decoder/dfa/

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* /opt/ws_local/PERMITS_SQL/1073709946_159893444.54/jar/io/netty/util/internal/shaded/org/jctools/queues/SequencedAtomicReferenceArrayQueue.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/RedisCodecUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java
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/**
 * Set the[@code 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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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocep/OcspServerExample.java
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  jar/io/netty/util/internal/logging/FormattingTuple.java
  /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/util/internal/logging/MessageFormatter.java

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/*
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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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*/
/**
* 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>
*
* <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.
* </p>
* <h3>State management</h3>
* 
* A [link ChannelHandler] often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
* 
* public class DataServerHandler extends [link SimpleChannelInboundHandler]&lt;Message&gt; {
* private boolean loggedIn;
* 
* { @code @Override
* public void channelRead0(@link ChannelHandlerContext} ctx, Message message) {
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) message);
*         loggedIn = true;
*     } else (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:
* 
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends @link ChannelInitializer}@link Channel} &lt; { @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}@link Message} &lt;Message&gt; {
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);
        <b>attr.set(true)</b>;
    } 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>);
    }
}

The {@code @Sharable} annotation

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
every time you add it to a pipeline because it has unshared state
such as member variables.
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/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/SctpMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/SctpChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/SctpServerChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/SctpChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/NioSctpChannel.java

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    jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
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  * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
    jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
  * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
    jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
  * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
    jar/io/netty/handler/codec/http/HttpScheme.java
  * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
    jar/io/netty/handler/codec/HeadersUtils.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.
 */

/*
 * [@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.

```
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" |
+--------+----------------+      +--------+----------------+
```

<h3>2 bytes length field at offset 0, strip header</h3>

Because we can get the length of the content by calling
`{@link 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" |
+--------+----------------+      +----------------+
```

<h3>2 bytes length field at offset 0, do not strip header, the length field
represents the length of the whole message</h3>

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
```
lengthFieldOffset   = 0
```
* lengthFieldLength = 2
* \langle b \rangle lengthAdjustment</b> = \langle b \rangle -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>
*
* 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 |
* | 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

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 lengthFieldOffset.

```
* lengthFieldOffset   = 1 (the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (the length of HDR2)
* <b>initialBytesToStrip</b>/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>
```

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" |
* +-------------------+-------------------+      +-------------------+-------------------+
* </pre>

@see LengthFieldPrepender
*/

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHeaderField.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackEncoder.java
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 */
/**
 * Set the { @code 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.
 */
/**
 * Set the { @code TCP_QUICKACK} option on the socket. See &lt;a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a&gt;
 * for more details.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/http2/HttpConversionUtil.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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```
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  jar/org/wildfly/security/WildFlyElytronProvider.java

1.1338 libgpg-error 1.21 2ubuntu1

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1.1342 libunistring 0.9.10

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1.1345 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

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-  
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Theodore Ts'o
23-June-2007

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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.]

Preamble

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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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"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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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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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
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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/

From the original distribution:

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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 = libcse
# 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; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(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:: $(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 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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  * 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/@WBRSRIIBZDhBFXQB6/>
  * 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@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]

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### 1.1354 packaging 16.8

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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
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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-util-scan
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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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1.1370 xz 5.1.1alpha+20120614 2ubuntu2
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* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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 *
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 * 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
* 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.
*/

Found in path(s):
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/security/handlers/AbstractConfidentialityHandler.java
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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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* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/META-INF/services/io.undertow.protocols.alpn.ALPNProvider
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jar/io/undertow/security/api/AuthenticationMechanismContext.java
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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/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/util/PortableConcurrentDirectDeque.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/util/FastConcurrentDirectDeque.java
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jar/io/undertow/util/Rfc6265CookieSupport.java
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jar/io/undertow/attribute/RemoteObfuscatedIPAttribute.java
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* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/handlers/proxy/RouteIteratorFactory.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/util/UrlDecodeException.java
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* /opt/cola/permits/1260753269_1643213132.77/0/undertow/server/handlers/StuckThreadDetectionHandler.java
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* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/predicate/Predicate.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/form/FormDataParser.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/resource/CachedResource.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/security/idm/DigestAlgorithm.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/client/PushCallback.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/attribute/StoredResponse.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/util/PathMatcher.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/conduits/DeflatingStreamSinkConduit.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/resource/DefaultResourceSupplier.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/protocols/http2/Http2Setting.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/protocols/http2/Http2RstStreamParser.java
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jar/io/undertow/server/handlers/resource/PreCompressedResourceSupplier.java
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jar/io/undertow/websockets/core/protocol/version07/WebSocket07PongFrameSourceChannel.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/websockets/core/CloseMessage.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/AggregateConnectorStatistics.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/attribute/RequestSchemeAttribute.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/attribute/BytesSentAttribute.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/security/implementations/GenericHeaderAuthenticationMechanism.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/cache/CacheHandler.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/conduits/BrokenStreamSourceConduit.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/attribute/PredicateContextAttribute.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/handlers/LearningPushHandler.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/handlers/proxy/ProxyHandler.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/http2/Http2WindowUpdateStreamSinkChannel.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/websockets/core/BufferedBinaryMessage.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/websockets/core/protocol/version08/Hybi08Handshake.java
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* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/session/SessionConfig.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/conduits/ChunkedStreamSinkConduit.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/security/impl/BasicAuthenticationMechanism.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/websockets/core/StreamSinkFrameChannel.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/protocol/framed/FrameHeaderData.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/attribute/RemoteIPAttribute.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/attribute/RequestHeaderAttribute.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/conduits/BytesReceivedStreamSourceConduit.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/websockets/spi/WebSocketHttpExchange.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/ssl/UndertowAcceptingSslChannel.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/util/ParameterLimitException.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/util/PathTemplate.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/BasicSSLSessionInfo.java
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* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/protocol/http/ServerFixedLengthStreamSinkConduit.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/handlers/proxy/ProxyConnectionPool.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources.jar/io/undertow/util/PipeliningExecutor.java
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* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/handlers/builder/RewriteHandlerBuilder.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources.jar/io/undertow/util/NetworkUtils.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-websockets/core/protocol/version07/WebSocket07TextFrameSinkChannel.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources.jar/io/undertow/websockets/core/WebSocketException.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources.jar/io/undertow/protocols/http2/HpackEncoder.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources.jar/io/undertow/attribute/OrPredicate.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/handlers/encoding/ContentEncodingRepository.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources.jar/io/undertow/attribute/LocalPortAttribute.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources.jar/io/undertow/websockets/core/protocol/version07/WebSocket07Channel.java
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* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/protocol/http/CacheMap.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/client/http2/Http2ClientProvider.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/conduits/ByteActivityCallback.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/handlers/AttachmentHandler.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/websockets/core/protocol/version07/Hybi07Handshake.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/handlers/encoding/DeflateEncodingProvider.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/ExchangeCompletionListener.java
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* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/security/handlers/NotificationReceiverHandler.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/XnioByteBufferPool.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/connector/ByteBufferPool.java
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* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/http2/Http2NoDataStreamSinkChannel.java
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* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/conduits/ChunkedStreamSourceConduit.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/conduits/RateLimitingStreamSinkConduit.java
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* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/http2/Http2GoAwayStreamSourceChannel.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/util/SubstringMap.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/ssl/ALPNHackSSLEngine.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow/server/handlers/cache/ResponseCachingSender.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow/websockets/core/protocol/version07/Masker.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/websockets/core/protocol/version07/WebSocket07CloseFrameSourceChannel.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow/security/api/AuthenticatedSessionManager.java
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/conduits/FixedLengthStreamSourceConduit.java
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 */
/**
 * Encodes and decodes to and from Base64 notation.
 */
</p>
<p>Example:
</p>
<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>
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.

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

```java
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.

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

Also...

```java
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.

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 `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 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 `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.</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>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>v2.3 - This is not a drop-in replacement!</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:
* The default is RFC3548 format.
* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in
* 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. 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 (int
  * that you "OR" together).
* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
* 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.
* v1.3.2 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
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  * with plenty of well-wishing instead! Please visit http://iharder.net/base64 to check for updates or to contribute improvements.
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
*/

Found in path(s):
* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/websockets/core/protocol/version07/Base64.java

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* /opt/cola/permits/1260753269_1643213132.77/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/ssl/MechanismDatabase.properties

1.1374 popt 1.18
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.1376 rrdtool 1.7.2

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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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* java.sun.security.ssl

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

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org.eclipse.jetty.toolchain:jetty-schemas

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1.1386 simpleclient-common 0.8.1

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1.1387 microprofile-opentracing-api 1.3.3

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1.1393 wildfly-clustering-marshalling-spi

19.1.0.Final

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1.1417 jansson 2.13.1
1.1417.1 Available under license:

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1.1418 java-getopt 1.0.13

1.1418.1 Available under license :

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1.1419 jboss-jaspi-api-1-1-spec 2.0.1.Final

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1.1424 busybox 1.31.1

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* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/authentication_parameters.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/authentication_context.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/wstrust_request.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/xmlutil.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/log.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/constants.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/cache_driver.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/util.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/code_request.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/mex.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/self_signed_jwt.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/wstrust_response.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/error.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/adal/token_cache.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/__init__.py
* /opt/ws_local/PERMITS_SQL/1072386391_1594997654.47/0/adal-1.2-4-tar.gz/adal-1.2.4/authority.py
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)  
| --- | --- | --- | --- |

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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**1.1438 busybox 1.32.1-r5**

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Julian Seward, Cambridge, UK.
jseward@bzip.org
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### 1.1440 commons-beanutils 1.9.3

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1442 gophercloud 0.1.0
1.1442.1 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
}

// 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"
    }
    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

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:

```
```
$ 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 .
$ 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

```go
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)
    })
}
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)
    })
}

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)
    })
}

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)
    })
}

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}
        }
        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 {
}

// ToResourceUpdateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {

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)
}

cfunc TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

cfunc 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)
}

cfunc TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

cfunc 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](/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/108)
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:

* 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
```

```go
```
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).

1.1443 chardet 3.0.4-2.ph4

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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---
layout: "api"
page_title: "/sys/license - HTTP API"
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
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 endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Sample Request

---
```bash
$ curl
   --header "X-Vault-Token: ..."
   http://127.0.0.1:8200/v1/sys/license
```

### Sample Response

```json
{
   "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"
   ]
}
```

## Install License

This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</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.

### Sample Payload

```json
```
{  "text": "01ABCDEFG..."  }
```
### Sample Request
```
$ curl 
   --header "X-Vault-Token: ..." 
   --request PUT 
   --data @payload.json 
   http://127.0.0.1:8200/v1/sys/license
```

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mgo - MongoDB driver for Go

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<form {{action "saveModel" text on="submit"}}>
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    <div class="field">
      <label for="license-id" class="is-label">License</label>
      <div class="control">
        {{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-input"}}
      </div>
    </div>
    <div class="field">
      <div class="control">
        <button type="submit" class="button is-primary" data-test-save-button>Save</button>
      </div>
    </div>
  </div>
</form>

{{else}}
  <section class="box is-sideless is-fullwidth">
    <span class="title is-5">Details</span>
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          <label for="license-id" class="is-label">License</label>
          <div class="control">
            {{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-input"}}
          </div>
        </div>
        <div class="field is-grouped">
          <div class="control">
            <button type="submit" class="button is-primary" data-test-save-button>Save</button>
          </div>
          <div class="control">
            <button type="button" {{action "toggleForm"}} class="button" data-test-cancel-button>Cancel</button>
          </div>
        </div>
      </form>
    {{else}}
      <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
        {{info-table-row label="License ID" value=licenseId}}
        {{#info-table-row label="Valid from" value=startTime}}
          {{date-format model.startTime 'MMM DD, YYYY hh:mm:ss A'}} to {{date-format expirationTime 'MMM DD, YYYY hh:mm:ss A'}}
        {{/info-table-row}}
      </div>
    {{/if}}
  </section>
{{/else}}
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package github
```go
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

// RepositoryLicense represents the license for a repository.  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,omitempty"`  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,omitemppy"`  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
    }

    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
    }

    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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type Features uint
const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
return false
}
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* /opt/ws_local/PERMITS_SQL/1074947088_1596001348.96/0/hibernate-validator-cdi-6-0-18-final-sources-1-
jar/org/hibernate/validator/cdi/internal/package-info.java
* /opt/ws_local/PERMITS_SQL/1074947088_1596001348.96/0/hibernate-validator-cdi-6-0-18-final-sources-1-
jar/org/hibernate/validator/cdi/internal/DestroyableBeanInstance.java
1.1453 docutils 0.15.2

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Python was created in the early 1990s by Guido van Rossum at Stichting
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includes many contributions from others. The last version released
from CWI was Python 1.2. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI) in Reston, Virginia where he released several versions of the software. Python 1.6 was the last of the versions released by CNRI. In 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. Python 2.0 was the first and only release from BeOpen.com.

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1.1456 dom4j 2.1.3

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementQNameIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/ElementHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/CDATA.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Document.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Action.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Rule.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanDocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightCDATA.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/IllegalAddException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBModifier.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FilterIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMDocumentType.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Pattern.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Rule.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/NamespaceStack.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/NamespaceCache.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBObjectHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DOMReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/QName.java
jar/org/dom4j/dom/DOMComment.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/XMLErrorHandler.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanAttributeList.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DOMWriter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightEntity.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/BackedList.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/STAXEventWriter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBSupport.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/IndexedElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/ElementStack.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/NodeFilter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/XPathException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightText.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractCharacterData.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/pattern/NodeTypePattern.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dtd/ExternalEntityDecl.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/swing/XMLTableDefinition.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/XPP3Reader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBWriter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractCDATA.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/swing/DocumentTreeModel.java
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jar/org/dom4j/util/NonLazyDocumentFactory.java
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jar/org/dom4j/datatype/DatatypeAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/DefaultEntity.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/AbstractDocument.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/datatype/DatatypeElementFactory.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DocumentSource.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementNameIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/JAXPHelper.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SchemaParser.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DispatchHandler.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractComment.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/AttributeHelper.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultText.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultNamespace.java
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1.1458 go-autorest-adal 0.8.2

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1.1460 html5lib 1.1

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1.1461 javax-ws-rs-api 2.1.1

1.1462 lucene-spatial 7.7.0

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pycparser -- A C parser in Python

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- analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt
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- analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
- 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
- analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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1.1469 spring-boot 2.1.16.RELEASE
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 */
/**
 * A [ @link WebApplicationContext] that can be used to bootstrap itself from a contained
 * [ @link ServletWebServerFactory] bean.
 * <p>
 * This 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).
 * <p>
 * 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 ('/*').
 * <p>
 * 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.
* <p>
* 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-
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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/context/properties/source/MapConfigurationPropertySource.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/context/properties/bind/BeanPropertyBinder.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/task/package-info.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/web/reactive/context/AnnotationConfigReactiveWebApplicationContext.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/context/properties/configuration/ConfigurationBeanFactoryMetadata.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/server/WebServerFactory.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/logging/log4j2/WhitespaceThrowablePatternConverter.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/diagnostics/analyzer/BindValidationFailureAnalyzer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/context/ConfigurationWarningsApplicationContextInitializer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/builder/ParentContextApplicationContextInitializer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/embedded/tomcat/TomcatErrorPage.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/embedded/tomcat/DisableReferenceClearingContextCustomizer.java
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jar/org/springframework/boot/web/embedded/tomcat/TomcatEmbeddedWebappClassLoader.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/servlet/context/AnnotationConfigServletWebServerApplicationContext.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/embedded/jetty/ConfigurableJettyWebServerFactory.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/reactive/server/ReactiveWebServerFactory.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/context/properties/ConfigurationPropertiesBindingPostProcessorRegistrar.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/embedded/tomcat/TomcatEmbeddedWebappClassLoader.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/embedded/tomcat/DisableReferenceClearingContextCustomizer.java
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jar/org/springframework/boot/web/servlet/error/package-info.java
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jar/org/springframework/boot/logging/AbstractLoggingSystem.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/context/logging/LoggingApplicationListener.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/context/properties/ConfigurationPropertiesBindingPostProcessorRegistrar.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/embedded/tomcat/TomcatEmbeddedWebappClassLoader.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-
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* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/logging/AbstractLoggingSystem.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/context/logging/LoggingApplicationListener.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/context/properties/ConfigurationPropertiesBindingPostProcessorRegistrar.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/embedded/tomcat/TomcatEmbeddedWebappClassLoader.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-
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* /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/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
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-jar/org/springframework/boot/web/server/PortInUseException.java
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1.1470 httpcore-nio 4.4.5

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<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
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<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
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</ul>
</div>

<div class="col-sm-2">

<h5 class="white">Innovation</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="http://incubator.apache.org/">Incubator</a></li>
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>

<div class="col-sm-2">

<h5 class="white">Tech Operations</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org/">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>

<div class="col-sm-2">

<h5 class="white">Press</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">

</ul>
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1.1471 agrona 0.9.31

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1.1472 findutils 4.7.0

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  jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/timeout/WriteTimeoutHandler.java
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jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
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jar/io/netty/handler/ssl/OpenSslSession.java
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jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java
*/opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
jar/io/netty/handler/ssl/Util/UtilKeyManagerFactory.java
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jar/io/netty/handler/ssl/Util/UtilKeyManagerFactory.java
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jar/io/netty/handler/ssl/Util/PseudoRandomFunction.java
*/opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
jar/io/netty/handler/ssl/SslMasterKeyHandler.java
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jar/io/netty/handler/ssl/SslMasterKeyHandler.java
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jar/io/netty/handler/ssl/SslSelfManagedKeyManager.java
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* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-jar/io/netty/handler/ssl/Ocsp/OcspClientHandler.java
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* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/jackson2/UserDeserializer.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenDeserializer.java

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*/
/**
 * Base64 encoder which is a reduced version of Robert Harder's public domain
 * implementation (version 2.3.7). See <a
 * href="http://iharder.sourceforge.net/current/java/base64/">http://iharder.sourceforge.net/current/java/base64/</a>
 * for more information.
 * For internal use only.
 *
 * @author Luke Taylor
 * @since 3.0
 * @deprecated Use java.util.Base64
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
jar/org/springframework/security/crypto/codec/Base64.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/hierarchicalroles/RoleHierarchyUtils.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/core/userdetails/cache/EhCacheBasedUserCache.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureDisabledEvent.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/core/userdetails/UsernameNotFoundException.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/authentication/dao/DaoAuthenticationProvider.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/util/MethodInvocationUtils.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/authentication/InsufficientAuthenticationException.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/access/event/AuthenticationCredentialsNotFoundException.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/core/AuthenticationException.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/core/security/FieldUtils.java
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Reviews the <code>Object</code> returned from a secure object invocation, being able to modify the <code>Object</code> or throw an <code>@link AccessDeniedException</code>. Typically used to ensure the principal is permitted to access the domain object instance returned by a service layer bean. Can also be used to mutate the domain object instance so the principal is only able to access authorised bean properties or <code>Collection</code> elements.

Special consideration should be given to using an <code>AfterInvocationManager</code> on bean methods that modify a database. Typically an <code>AfterInvocationManager</code> is used with read-only methods, such as <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.

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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/password/PasswordEncoderUtils.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/core/userdetails/ReactiveUserDetailsService.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/authorization/ReactiveAuthorizationManager.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/authorization/AuthenticatedReactiveAuthorizationManager.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/authorization/AuthorizationDecision.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/authentication/UserDetailsRepositoryReactiveAuthenticationManager.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/core/AuthenticatedPrincipal.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/core/userdetails/MapReactiveUserDetailsService.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/authorization/AuthorityReactiveAuthorizationManager.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/crypto/password/Md4.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.
 * <p>
 * @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
 */

Found in path(s):
* /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

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* @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/access/expression/SpringExpressionOperations.java
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  jar/org/springframework/security/core/userdetails/ReactiveUserDetailsPasswordService.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-
  jar/org/springframework/security/core/userdetails/UserDetailsPasswordService.java
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  jar/org/springframework/security/core/Transient.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
  jar/org/springframework/security/authentication/ProviderManager.java
* /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
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
  jar/org/springframework/security/jackson2/UnmodifiableListDeserializer.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
  jar/org/springframework/security/jackson2/BadCredentialsExceptionMixin.java
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  jar/org/springframework/security/jackson2/Pbkdf2PasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
  jar/org/springframework/security/cryptopassword/MessageDigestPasswordEncoder.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-jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/authentication/jaas/AbstractJaasAuthenticationProvider.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/jackson2/UnmodifiableSetMixin.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/jackson2/AnonymousAuthenticationTokenMixin.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/jackson2/UserMixin.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/jackson2/SimpleGrantedAuthorityMixin.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenMixin.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/jackson2/RememberMeAuthenticationTokenMixin.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/jackson2/CoreJackson2Module.java

1.1486 jline 2.14.6
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+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#!/bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && 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
+  *
+  [ Julien Cristau ]
+  * 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 Uploader.
+ * 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
+ [ Julien Cristau ]
+ * 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-dbg (Closes: #594500). Thanks to Luca Falavigna for the report.
+
+ [ Cyril Brulebois ]
+ * Add myself to Uploaders.
+ * 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.
+ * Add README.source, bump Standards-Version to 3.8.2.
+ * Use updated xsfbs, closes: #538587.
+ * Move -dbg packages to section debug.
+
+ -- Julien Cristau <jcristau@debian.org> Fri, 07 Aug 2009 14:30:36 +0200
+
+libxmu (2:1.0.4-1) unstable; urgency=low
Open Source Used In SDWan 20.9.1 16623

[ 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 Up uploaders, and remove Branden and Fabio with their permission.
+ * Bump Standards-Version to 3.7.3 (no changes).
+ * s/^XS-Vcs/Vcs/

[ 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
+ * 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 (1:1.0.2-2) unstable; urgency=low
+ * Bump the epoch so that this can be synced to Ubuntu in the future.
+ * Test for obj-$DEB_BUILD_GNU_TYPE) before creating it during build;
+ * idempotency fix.

[ Andres Salomon ]
+ * dbg package has priority extra.

-- David Nusinow <dnusinow@debian.org> Wed, 30 Aug 2006 16:53:25 -0400
+ libxmu (1:1.0.2-1) experimental; urgency=low
+ * New upstream release
+ * Bump debhelper compat to 5
+ * Run dh_install with --list-missing
+ * Version the -headers package's x11-common pre-dep to use version 1:7.0.0
+ * to match the rest of Debian and shut lintian up
+ * Bump standards version to 3.7.2.0
+ + -- David Nusinow <dnusinow@debian.org> Mon, 3 Jul 2006 18:43:32 -0400
+ +libxmu (1:1.0.1-3) unstable; urgency=low
+ + * Reorder makeshlib command in rules file so that ldconfig is run
+ + properly. Thanks Drew Parsons and Steve Langasek.
+ + -- David Nusinow <dnusinow@debian.org> Tue, 18 Apr 2006 21:49:59 -0400
+ +libxmu (1:1.0.1-2) unstable; urgency=low
+ + * Upload to unstable
+ + -- David Nusinow <dnusinow@debian.org> Thu, 23 Mar 2006 22:44:59 -0500
+ +libxmu (1:1.0.1-1) experimental; urgency=low
+ + * First upload to Debian
+ + -- David Nusinow <dnusinow@debian.org> Thu, 29 Dec 2005 20:53:53 -0500
+ +libxmu (1:6.2.3-5) breezy; urgency=low
+ + * Also, libxmu-dev needs to depend on libxt-dev too.
+ + -- Adam Conrad <adconrad@ubuntu.com> Mon, 25 Jul 2005 09:43:47 +0000
+ +libxmu (1:6.2.3-4) breezy; urgency=low
+ + * Bump libxt-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:
+  debhelper (>= 9),
+  dh-autoreconf,
+  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>
Package: libxmu6-dbg
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
+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:
This module can be found at

+ [git://anongit.freedesktop.org/git/xorg/lib/libXmu](http://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:
+ [http://www.X.org](http://www.X.org)
+ 
+ This module can be found at
+ [git://anongit.freedesktop.org/git/xorg/lib/libXmu](http://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
+http://xorg.freedesktop.org/releases/individual/lib/
+
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+
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Xmu/StrToBmap.c and Xmu/GrayPixmap.c also have:

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+ Cflags: -I${includedir}
+ Libs: -L${libdir} -lxmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index 1e91ac4..72fa5f9 100644
+-@@ a/xmuu.pc.in
++++ b/xmuu.pc.in
+@@ -6,7 +6,7 @@ include-dir=@includedir@
+ Name: Xmuu
+ Description: Mini Xmu Library
+ Version: @PACKAGE_VERSION@
++Requires: xproto x11
+ Cflags: -I${includedir}
+ Libs: -L${libdir} -lXmuu
--- libxmu-1.1.2.orig/debian/patches/series
+++ libxmu-1.1.2/debian/patches/series
@@ -0,0 +1 @@
+01_dont_export_private_deps.diff
--- libxmu-1.1.2.orig/debian/rules
+++ libxmu-1.1.2/debian/rules
@@ -0,0 +1,34 @@
#!/usr/bin/make -f
# debian/rules for the Debian libxmu package.
++Copyright 2004 Scott James Remnant <scott@netsplit.com>
++Copyright 2005 Daniel Stone <daniel@fooishbar.org>
++Copyright 2005 David Nusinow <dnusinow@debian.org>
+
++Uncomment this to turn on verbose mode.
++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-dbg
+dh_strip -Plibxmuu1 --dbg-package=libxmuu1-dbg
--- 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\.gz

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013987576_1591897387.78/0/libxmu-1-1-2-2-diff-gz/libxmu_1.1.2-2.diff

1.1488 artemis-jdbc-store 2.10.1
1.1488.1 Available under license :

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* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Type.java
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* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/MethodTooLargeException.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ModuleWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/CurrentFrame.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/TypeReference.java

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* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/objectweb/asm/package.html
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/objectweb/asm/signature/package.html

1.1499 wildfly-elytron-auth-server-sasl

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* /opt/cola/permits/1260753125_1643213321.05/0/wildfly-elytron-auth-server-sasl-1-11-4-final-sources-
  jar/org/wildfly/security/auth/server/sasl/ElytronMessages.java

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1.1500 wildfly-sar 19.1.0.Final

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1.1501 artemis-amqp-protocol 2.10.1

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* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2.jar/org/springframework/beans/factory/wiring/BeanWiringInfoResolver.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2.jar/org/springframework/beans/propertyeditors/LocaleEditor.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2.jar/org/springframework/beans/propertyeditors/InputStreamEditor.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2.jar/org/springframework/beans/factory/HierarchicalBeanFactory.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2.jar/org/springframework/beans/factory/support/ManagedProperties.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2.jar/org/springframework/beans/factory/support/SecurityContextProvider.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2.jar/org/springframework/beans/factory/parsing/Location.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2.jar/org/springframework/beans/factory/parsing/ConstructorArgumentEntry.java

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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/util/Uri.java
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-->

<?xml version="1.0" encoding="utf-8"?>
<module
(moduleVersion="1.0"
relaxCoreVersion="1.0"
targetNamespace="http://www.xml.gr.jp/xmlns/relaxCore"
xmlns="http://www.xml.gr.jp/xmlns/relaxCore">

</interface>
</module>
The overall structure of RELAX modules

<elementRule role="module">
  <sequence>
    <ref label="annotation" occurs="?"/>
    <ref label="interface" occurs="?"/>
    <choice occurs="*">
      <hedgeRef label="clause"/>
      <hedgeRef label="rule"/>
      <ref label="divInModule"/>
      <ref label="include"/>
      <choice>
      </choice>
    </choice>
  </sequence>
</elementRule>

<tag name="module">
  <attribute name="moduleVersion" type="string"/>
  <attribute name="relaxCoreVersion" type="string" required="true">
    <enumeration value="1.0"/>
  </attribute>
  <attribute name="targetNamespace" type="uriReference"/>
</tag>

<elementRule role="interface">
  <sequence>
    <ref label="annotation" occurs="?"/>
    <choice occurs="*">
      <ref label="export"/>
      <ref label="divInInterface"/>
      <choice>
      </choice>
    </choice>
  </sequence>
</elementRule>

<tag name="interface"/>

<hedgeRule label="clause">
  <choice>
    <ref label="tag"/>
    <ref label="attPool"/>
  </choice>
</hedgeRule>
<sequence>
<ref label="annotation" occurs="?"/>
<choice occurs="*">
<ref label="export"/>
<ref label="divInInterface"/>
</choice>
</sequence>
</elementRule>

<div>
<annotation>
<documentation>Include</documentation>
</annotation>

<elementRule role="include">
<ref label="annotation" occurs="?"/>
</elementRule>

<tag name="include">
<attribute name="moduleLocation" type="uriReference" required="true"/>
</tag>
</div>

<div>
<annotation>
<documentation>Hedge Models</documentation>
</annotation>

<hedgeRule label="particle">
<annotation>
<documentation>This is used to describe element hedge models. It is also used as subordinates of sequence, choice, and mixed.</documentation>
</annotation>

<choice>
<ref label="refWithLabel"/>
<ref label="hedgeRef"/>
<ref label="choice"/>
<ref label="sequence"/>
<ref label="element"/>
<ref label="none"/>
<ref label="empty"/>
</choice>
</hedgeRule>

<hedgeRule label="hedgeModel">
<choice>
  <hedgeRef label="particle"/>
  <ref label="mixed"/>
</choice>
</hedgeRule>

<attPool role="repeatable">
  <annotation>
    <documentation>This is used to specify the "occurs" attribute, which is shared by several elements.</documentation>
  </annotation>
  <attribute name="occurs" type="string">
    <enumeration value="?"/>
    <enumeration value="*"/>
    <enumeration value="+"/>
  </attribute>
</attPool>

<elementRule role="hedgeRef" type="emptyString"/>

<tag name="hedgeRef">
  <ref role="repeatable"/>
  <attribute name="label" required="true" type="NCName"/>
</tag>

<elementRule label="refWithLabel" type="emptyString">
  <annotation>
    <documentation>ref elements with the label attribute</documentation>
  </annotation>
  <tag name="ref">
    <ref role="repeatable"/>
    <attribute name="label" required="true" type="NCName"/>
    <attribute name="role" type="none"/>
  </tag>
</elementRule>

<elementRule role="empty" type="emptyString"/>

<tag name="empty"/>

<elementRule role="choice">
  <hedgeRef label="particle" occurs="*"/>
</elementRule>

<tag name="choice">
  <ref role="repeatable"/>
</tag>
<elementRule role="sequence">
  <hedgeRef label="particle" occurs="*"/>
</elementRule>

<tag name="sequence">
  <ref role="repeatable"/>
</tag>

<elementRule role="none" type="emptyString"/>
<tag name="none"/>

<elementRule role="mixed">
  <hedgeRef label="particle"/>
</elementRule>

<tag name="mixed"/>

<elementRule label="element">
  <annotation>
    <documentation>with the type attribute</documentation>
  </annotation>
  <tag name="element">
    <ref role="repeatable"/>
    <attribute name="name" required="true" type="NCName"/>
    <attribute name="type" required="true" type="NCName"/>
  </tag>
  <sequence>
    <ref label="annotation" occurs="?"/>
    <hedgeRef label="facet" occurs="*"/>
  </sequence>
</elementRule>
</div>

<annotation>
  <documentation>Rules</documentation>
</annotation>

<elementRule label="elementRule">
  <annotation>
    <documentation>without an embedded tag element</documentation>
    <documentation>with the type attribute</documentation>
  </annotation>
  <tag name="elementRule">
    <attribute name="role" required="true" type="NCName"/>
    <attribute name="label" type="NCName"/>
  </tag>
</elementRule>
<elementRule label="elementRule">
  <annotation>
    <documentation>with an embedded tag element</documentation>
    <documentation>with the type attribute</documentation>
  </annotation>
  <tag name="elementRule">
    <attribute name="role" type="none"/>
    <attribute name="label" type="NCName"/>
    <attribute name="type" type="NCName" required="true"/>
  </tag>
  <sequence>
    <ref label="annotation" occurs="?"/>
    <hedgeRef label="facet" occurs="*"/>
  </sequence>
</elementRule>

<elementRule label="elementRule">
  <annotation>
    <documentation>without an embedded tag element</documentation>
    <documentation>with a hedge model</documentation>
  </annotation>
  <tag name="elementRule">
    <attribute name="role" required="true" type="NCName"/>
    <attribute name="label" type="NCName"/>
    <attribute name="type" type="none"/>
  </tag>
  <sequence>
    <ref label="annotation" occurs="?"/>
    <hedgeRef label="hedgeModel"/>
  </sequence>
</elementRule>

<elementRule label="elementRule">
  <annotation>
    <documentation>with an embedded tag element</documentation>
    <documentation>with a hedge model</documentation>
  </annotation>
  <tag name="elementRule">
    <attribute name="role" type="none"/>
    <attribute name="label" type="NCName"/>
    <attribute name="type" type="none"/>
  </tag>
  <sequence>
    <ref label="annotation" occurs="?"/>
    <hedgeRef label="hedgeModel"/>
  </sequence>
</elementRule>
<documentation>tag elements embedded in elementRules</documentation>
<annotation/>
tag name="tag">
<attribute name="role" type="none"/>
<attribute name="name" type="NCName"/>
tag>
<hedgeRef label="clauseBody"/>
</elementRule>

elementRule role="attPool">
<hedgeRef label="clauseBody"/>
</elementRule>

tag name="attPool">
<attribute name="role" required="true" type="NCName"/>
tag>
elementRule label="refWithRole" type="emptyString">
<documentation>ref elements with the role attribute</documentation>
<annotation/>
tag name="ref">
<attribute name="role" required="true" type="NCName"/>
<attribute name="label" type="none"/>
tag>
</elementRule>
elementRule role="attribute">
<sequence>
<ref label="annotation" occurs="?"/>
hedgeRef label="facet" occurs="*"/>
</sequence>
</elementRule>
tag name="attribute">
<attribute name="name" required="true" type="NM_TOKEN">
<annotation>
<documentation>Since RELAX Core is concerned with a single
namespace, NCName might be more appropriate. However,
xml:space and xml:lang are so common that RELAX Core should
allow them.
</documentation>
</annotation>
<attribute name="type" type="NCName"/>
<attribute name="required" type="NM_TOKEN">
<enumeration value="true"/>
</attribute>
<!-- datatypes -->
<hedgeRule label="minBound">
  <choice>
    <ref label="minInclusive"/>
    <ref label="minExclusive"/>
  </choice>
</hedgeRule>

<hedgeRule label="maxBound">
  <choice>
    <ref label="maxInclusive"/>
    <ref label="maxExclusive"/>
  </choice>
</hedgeRule>

<hedgeRule label="bounds">
  <choice>
    <hedgeRef label="minBound"/>
    <hedgeRef label="maxBound"/>
  </choice>
</hedgeRule>

<hedgeRule label="numeric">
  <choice>
    <ref label="precision"/>
    <ref label="scale"/>
  </choice>
</hedgeRule>

<hedgeRule label="ordered">
  <choice>
    <hedgeRef label="bounds"/>
    <hedgeRef label="numeric"/>
  </choice>
</hedgeRule>

<hedgeRule label="unordered">
  <choice>
    <ref label="pattern"/>
    <ref label="enumeration"/>
    <ref label="length"/>
    <ref label="maxLength"/>
  </choice>
</hedgeRule>
RELAX Core published as JIS TR in 2000/5 does not have user-defined types. But this may change in the future. Comments?

```xml
<elementRule role="simpleType">
  <sequence>
    <ref label="annotation" occurs="?"/>
    <hedgeRef label="facet" occurs="*"/>
  </sequence>
</elementRule>

<tag name="simpleType">
  <attribute name="name" type="NMTOKEN"/>
  <attribute name="base" required="true" type="string"/>
</tag>

<elementRule role="maxExclusive">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="maxExclusive">
  <ref role="facetAttrs"/>
</tag>

<elementRule role="minExclusive">
  <hedgeRef label="facetModel"/>
</elementRule>
```
<hedgeRef label="facetModel"/>
</elementRule>

<tag name="minExclusive">
  <ref role="facetAttrs"/>
</tag>

<elementRule role="maxInclusive">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="maxInclusive">
  <ref role="facetAttrs"/>
</tag>

<elementRule role="minInclusive">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="minInclusive">
  <ref role="facetAttrs"/>
</tag>

<elementRule role="precision">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="precision">
  <attribute name="value" required="true" type="positiveInteger"/>
</tag>

<elementRule role="scale">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="scale">
  <attribute name="value" required="true" type="nonNegativeInteger"/>
</tag>

<elementRule role="length">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="length">
  <attribute name="value" required="true" type="nonNegativeInteger"/>
</tag>

<elementRule role="minLength">
<tag name="minLength">
  <attribute name="value" required="true" type="nonNegativeInteger"/>
</tag>

<elementRule role="maxLength">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="maxLength">
  <attribute name="value" required="true" type="nonNegativeInteger"/>
</tag>

<elementRule role="enumeration">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="enumeration">
  <ref role="facetAttrs"/>
</tag>

<elementRule role="pattern">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="pattern">
  <ref role="facetAttrs"/>
</tag>

<elementRule role="encoding">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="encoding">
  <attribute name="value" required="true" type="NMTOKEN">
    <enumeration value="hex">
      <annotation>
        <documentation>each (8-bit) byte is encoded as a sequence of 2 hexadecimal digits</documentation>
      </annotation>
    </enumeration>
    <enumeration value="base64">
      <annotation>
        <documentation>value is encoded in Base64 as defined in the MIME RFC</documentation>
      </annotation>
    </enumeration>
  </attribute>
</tag>
<elementRule role="period">
    <hedgeRef label="facetModel"/>
</elementRule>

<tag name="period">
    <attribute name="value" required="true" type="timeDuration"/>
</tag>

<elementRule role="duration">
    <hedgeRef label="facetModel"/>
</elementRule>

<tag name="duration">
    <ref role="facetAttrs"/>
</tag>

<elementRule role="annotation">
    <choice occurs="*">
        <ref label="appinfo"/>
        <ref label="documentation"/>
    </choice>
</elementRule>

<tag name="annotation"/>

<elementRule role="appinfo">
    <mixed><empty/></mixed>
</elementRule>

<tag name="appinfo">
    <attribute name="source" type="string"/>
</tag>

<elementRule role="documentation">
    <mixed><empty/></mixed>
</elementRule>

<tag name="documentation">
    <attribute name="source" type="string"/>
    <attribute name="xml:lang" type="string"/>
</tag>

</module>

Found in path(s):
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/relax/core/relaxCore.rlx

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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/MessageCatalog.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/DTDEventListener.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/XmlChars.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/XmlReader.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/InputEntity.java
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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/xmlschema/Messages_ja.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/verifier/regexp/Messages_ja.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/relaxng/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/relaxns/verifier/Messages_ja.properties
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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/verifier/regexp/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/trex/ng/comp/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/trex/ng/comp/Messages.properties
jar/com/sun/msv/driver/textui/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/grammar/trex/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/reader/Messages_ja.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/reader/trex/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/reader/dtd/resources/Messages_en.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/verifier/identity/Messages_ja.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/verifier/Messages_ja.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/reader/relax/Messages_ja.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/reader/relax/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/reader/trex/ng/Messages_ja.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/verifier/regexp/xmlschema/Messages_ja.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/verifier/regexp/xmlschema/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/relaxns/grammar/relax/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/relaxns/grammar/relax/Messages.properties
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jar/com/sun/msv/reader/xmlschema/Messages.properties
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jar/com/sun/msv/reader/dtd/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/reader/trex/ng/comp/Messages_ja.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/driver/textui/Messages_ja.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/verifier/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/reader/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/reader/trex/Messages_ja.properties
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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/ExpressionVisitorExpression.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/verifier/util/ErrorHandlerImpl.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/xmlschema/WSDLSchemaReader.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/xmlschema/RootIncludedSchemaState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/util/GrammarLoader.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/xmlschema/XPath.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/verifier/identity/Matcher.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msvreader/datatype/xsd/LazyTypeIncubator.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msvreader/xmlschema/GroupDeclExp.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msvrelaxns/reader/trex/NameClassAnyNameState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msvrelaxns/reader/trex/NameClassNameState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msvrelaxns/reader/trex/NameClassDifferenceState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msvrelaxns/reader/trex/RELAXNGReader.java
jar/com/sun/msv/grammar/trex/Localizer.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/reader/trex/ng/ElementState.java
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jar/com/sun/msv/reader/relax/core/checker/DbAttrConstraintChecker.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/reader/trex/classic/DataState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/reader/DOMLSInput.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/relaxns/grammar/ExternalAttributeExp.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/writer/relaxng/NameClassWriter.java

jar/com/sun/msv/reader/relax/LabelRefState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/relax/core/AttributeState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/NameClassVisitor.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/SimpleNameClass.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/MixedExp.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/xmlschema/LaxDefaultNameClass.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/trex/NameClassNsNameState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/trex/typed/TypedElementState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/util/ExpressionFinder.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/xmlschema/MultiSchemaReader.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/SequenceExp.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/xmlschema/AttributeState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/verifier/jar/DTDFactoryImpl.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/xmlschema/RedefinableDeclState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/verifier/regexp/ElementToken.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/verifier/identity/FieldsMatcher.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/verifier/regexp/ResidualCalculator.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/relax/core/InlineTagState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/trex/IncludeMergeState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/util/DatatypeRef.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/trex/ng/ListState.java
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/**
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 *
 * <p>This class is in the Public Domain, and comes with NO
 * WARRANTY of any kind.</p>
 *
 * <p>This wrapper class is used only when Namespace support
 * is disabled -- it provides pretty much a direct mapping
 * from SAX1 to SAX2, except that names and types are
 * interned whenever requested.</p>
 *
**/

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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/writer/ContentHandlerAdaptor.java

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*/
/**
* exposes the low-level validation engine interface.
*<p>
* represents a pseudo-automaton acceptor.
* this interface is used to validate content models.
*
*<h2>Perform Validation</h2>
*<p>
* To perform validation, call the createAcceptor method of the DocumentDeclaration interface to obtain an Acceptor for validating the document element.
*
*<pre>
* Acceptor a = vgm.createAcceptor();
* </pre>
*
*<p>
* One acceptor is responsible for validating one element. So you also need some form of stack. If you are using a "push" interface like SAX, you need an explicit stack. If you are validating in "pull" fashion (like DOM), then you can use a recursion instead of an explicit stack.
* The following explanation assumes SAX-like interface.
*
*<p>
* Now, get back to the story. Whenever you encounter a start tag, create a new
acceptor, which validates the children of newly encountered element.

```
stack.push(a);
a = a.createChildAcceptor(sti, null);
```

If this tag name was unexpected, then this method returns null. See javadoc for more details.

Then, for every attributes, call the `@link #onAttribute` method. After that you call the `@link #onEndAttributes` method.

```
for(int i=0; i<atts.getLength(); i++)
a.onAttribute(atts.getURI(i), ....);
a.onEndAttributes();
```

An error can occur at any method. See the method documentations for details.

If you find an end tag, make sure that the acceptor is satisfied. An acceptor is said to be unsatisfied when it needs more elements/text to complete the content model. For example, if the content model is (A,B,C) and it only sees (A,B), then the acceptor is not satisfied because it needs to see C.

```
if(!a.isAcceptState(null))
  ; // error because the acceptor is unsatisfied.
```

Accept child = a;
```
a = stack.pop();
a.stepForward(child, null);
```

Then, call the stepForward method of the parent acceptor and pass the child acceptor to it.

Finally, whenever you see a text, call the onText method.
If the text was unexpected or not allowed, then this method returns null.
See the documentation for details.
In this way, you can better control the validation process.

If you need even finer control of the validation process (e.g., you need to know the list of allowed elements/attributes), you may want to rely on the \texttt{regexp} implementation of VGM. See \texttt{@link com.sun.msv.verifier.regexp.REDocumentDeclaration} for detail.

\section*{Downcasting}

It is often useful to downcast the Acceptor interface to appropriate derived class. For example, if you are using \texttt{REDocumentDeclaration}, then you can always downcast an Acceptor to \texttt{ExpressionAcceptor}, which provides more predictable behaviors and some useful methods.

@see DocumentDeclaration

@author Kohsuke KAWAGUCHI

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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/package.html
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 */
/**
 * ElementPattern with type.
 *
 * Proprietary extension by MSV to support type-assignment in TREX.
 *
 * @author <a href="mailto:kohsuke.kawaguchi@eng.sun.com">Kohsuke KAWAGUCHI</a>
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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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This package contains a modified version of ca-bundle.crt:

cb-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.#
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
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In 1995, Guido continued his work on Python at the Corporation for
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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
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Foundation (PSF, see http://www.python.org/psf/) was formed, a
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</tbody>
</table>

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Found in path(s):
* /opt/cola/permits/1126945096_1614277211.68/0/jackson-mapper-asl-1-9-13-redhat-00006-sources-
jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.1515 googleapis-common-protos 1.56.0

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* /opt/cola/permits/1003070155_1646171676.14/0/vdx-core-1-1-6-sources-jar/org/projectodd/vdx/core/handlers/UnsupportedElementHandler.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

-----

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

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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* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/marshalling/PrematureChannelClosureException.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
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A decoder that splits the received `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.

* `lengthFieldOffset = 0`
* `lengthFieldLength = 2`
* `lengthAdjustment = 0`

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.

* `lengthFieldOffset = 0`
* `lengthFieldLength = 2`
* 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" |
* +-------------------+--------------------+
* </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)
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* 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.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
* </pre>
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-------------------+--------------------+
* | Length | Actual Content | -----> | Length | Actual Content |
* +-------------------+--------------------+
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.

```
<table>
<thead>
<tr>
<th>Header 1</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCAFE</td>
<td>0x00000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

```
* 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" |
* +----------+----------+----------------+      +----------+----------+----------------+
```

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" |
* +----------+----------+----------------+      +----------+----------+----------------+
```

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
* &lt;b&gt;lengthAdjustment&lt;/b&gt; = &lt;b&gt;1&lt;/b&gt; (= the length of HDR2)
* &lt;b&gt;initialBytesToStrip&lt;/b&gt; = &lt;b&gt;3&lt;/b&gt; (= 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 &lt;tt&gt;lengthAdjustment&lt;/tt&gt;.
* 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
* &lt;b&gt;lengthAdjustment&lt;/b&gt; = &lt;b&gt;-3&lt;/b&gt; (= the length of HDR1 + LEN, negative)
* &lt;b&gt;initialBytesToStrip&lt;/b&gt; = &lt;b&gt;3&lt;/b&gt;
* 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
*/

Found in path(s):
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources.jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources.jar/io/netty/handler/codec/compression/Crc32c.java
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/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
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 * Base64 Encoder/Decoder</a>.
 */

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* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources.jar/io/netty/handler/codec/base64/Base64Dialect.java
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* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java
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* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/Headers.java
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* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
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* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java

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1.1545 debian-archive-keyring 2019.1

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jar/org/elasticsearch/ingest/common/RemoveProcessor.java

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jar/org/elasticsearch/ingest/common/TrimProcessor.java

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jar/org/elasticsearch/ingest/common/AbstractStringProcessor.java

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1.1553 jbossws-cxf-transports-undertow

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@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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- javaee_web_services_1_2.xsd
- 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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  * 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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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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1.1572 wildfly-clustering-jgroups-api
19.1.0.Final

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 * 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>
 *<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

1.1575 wildfly-clustering-singleton-api

19.1.0.Final

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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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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

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Assorted

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1.1580 keyutils 1.5.9 8ubuntu1

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ar/jar/com/amazonaws/log/CommonsLog.java
* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-
ar/jar/com/amazonaws/util/IdempotentUtils.java
* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-
ar/jar/com/amazonaws/util/FakeIOException.java
* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-
ar/jar/com/amazonaws/http/apache/client/impl/ApacheConnectionManagerFactory.java
* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-
ar/jar/com/amazonaws/http/apache/request/impl/ApacheHttpRequestFactory.java
* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-
ar/jar/com/amazonaws/http/timers/request/HttpRequestParam.java
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* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-
ar/jar/com/amazonaws/http/apache/client/impl/ApacheConnectionManagerFactory.java
* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-
ar/jar/com/amazonaws/internal/DateTimeJsonSerializer.java
* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-
ar/jar/com/amazonaws/log/InternalLogFactory.java
* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-
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* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/internal/CustomBackoffStrategy.java
* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/auth/InstanceProfileCredentialsProvider.java
* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/auth/AWSCredentialsProviderChain.java
* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/internal/CRC32MismatchException.java
* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/internal/DynamoDBBackoffStrategy.java
* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/internal/EC2MetadataClient.java

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*/
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* Interface for providing AWS credentials. Implementations are free to use any
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* credentials that don't change, or more complicated implementations, such as
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*/

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* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/internal/ResettableInputStream.java
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* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/credentials/endpoint/CredentialsEndpointRetryPolicy.java
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* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/auth/EC2ContainerCredentialsProviderWrapper.java
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* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/annotation/NotThreadSafe.java
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* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/util/EncodingScheme.java
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* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/util/MetricsInputStream.java
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* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/util/Codec.java
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* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/util/HttpClientWrappingInputStream.java
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* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/metrics/MetricValueRegistry.java
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* /opt/cola/permits/1279236421_1646076024.45/0/aws-java-sdk-core-1-11-553-sources-jar/com/amazonaws/auth/policy/Principal.java
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  dist/ExtUtils-Manifest/*
  dist/I18N-Collate/*
  dist/Safe/*
  ext/Fcntl/*
  ext/FileCache/*
  ext/GDBM_File/*
  ext/IPC-Open2/*
  ext/IPC-Open3/*
  ext/NDBM_File/*
  ext/ODBM_File/*
  ext/Opocode/*
  ext/PerlIO-encoding/*
  ext/PerlIO-scalar/*
  ext/PerlIO-via/*
  ext/POSIX/*
  ext/real/*
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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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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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1.1594 e2fsprogs 1.44.5 1+deb10u3

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===================================================================
--- 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

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Theodore Ts'o
23-June-2007

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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
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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:

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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:
stx-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): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
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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### 1.1600 multiregexp 0.5.1_8

#### 1.1600.1 Available under license:

No license file was found, but licenses were detected in source scan.

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  <groupId>com.fulmicoton</groupId>
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  <description>Library to search/match/tokenize using many regular expression all at once with greater performance.</description>
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  </scm>
  <developers>
    <developer>
      <name>Paul Masurel</name>
      <email>paul.masurel@gmail.com</email>
      <url>http://fulmicoton.com</url>
    </developer>
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* /opt/cola/permits/1260754126_1643213329.59/0/multiregexp-0-5-1-jar/META-INF/maven/com.fulmicoton/multiregexp/pom.xml

1.1601 neo4j-storage-engine-api 4.1.7
1.1601.1 Available under license:

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* /opt/cola/permits/100002513_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopScopeManager.java
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* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1.jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfiguration.java
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* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1.jar/org/springframework/security/config/annotation/web/configurers/AbstractConfigAttributeRequestMatcherRegistry.java
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* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1-jar/org/springframework/security/config/authentication/configuration/InitializeUserDetailsBeanManagerConfigurer.java
* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1-jar/org/springframework/security/config/http/RememberMeBeanDefinitionParser.java
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* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1-
  jar/org/springframework/security/config/annotation/method/configuration/ReactiveMethodSecurityConfiguration.java
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  jar/org/springframework/security/config/annotation/method/configuration/ReactiveMethodSecuritySelector.java
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* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1.jar/org/springframework/security/config/authentication/PasswordEncoderParser.java
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* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1.jar/org/springframework/security/config/http/FilterInvocationSecurityMetadataSourceParser.java
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* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1-
  jar/org/springframework/security/config/http/GrantedAuthorityDefaultsParserUtils.java

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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/lexer/LexerTypeAction.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/lexer/ATNType.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/lexer/ATNDeserializationOptions.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/lexer/LexerAction.java
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/InterpreterRuleContext.java
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/tree/pattern/TagChunk.java
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/tree/pattern/ParserInterpreter.java
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4.5.3-sources-jar/org/antlr/v4/runtime/misc/Tuple.java

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/**
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* This just implements splitting a single line into fields.
* The purpose of the CSVParser is to take a single string and parse it into its elements based on the delimiter, quote and escape characters.
* The CSVParser has grown organically based on user requests and does not truely match any current requirements (though it can be configured to match or come close). There is no plans to change this as it will break existing requirements. Consider using the RFC4180Parser for less configurability but closer match to the RFC4180 requirements.
* @author Glen Smith
* @author Rainer Pruy
*/

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* /opt/cola/permits/1260753981_1643213165.36/0/opencsv-4.6-sources-jar/com/opencsv/CSVParser.java

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* /opt/cola/permits/1260753981_1643213165.36/0/opencsv-4-6-sources-jar/com/opencsv/CSVReaderBuilder.java
* /opt/cola/permits/1260753981_1643213165.36/0/opencsv-4-6-sources-jar/com/opencsv/CSVParserBuilder.java
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* /opt/cola/permits/1260753981_1643213165.36/0/opencsv-4-6-sources-jar/com/opencsv/bean/CsvCustomBindByName.java
* /opt/cola/permits/1260753981_1643213165.36/0/opencsv-4-6-sources-jar/com/opencsv/bean/CsvToBeanBuilder.java
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* /opt/cola/permits/1260753981_1643213165.36/0/opencsv-4-6-sources-jar/com/opencsv/enums/package-info.java
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jar/com/opencsv/exceptions/CsvMultilineLimitBrokenException.java
* /opt/cola/permits/1260753981_1643213165.36/0/opencsv-4-6-sources-jar/com/opencsv/bean/customconverter/ConvertSplitOnWhitespace.java
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* /opt/cola/permits/1260753981_1643213165.36/0/opencsv-4-6-sources-jar/com/opencsv/bean/PositionToBeanField.java
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1.1618 rxjava 2.2.5

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* /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/AbstractDirectTask.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/InstantPeriodicTask.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/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-
jar/io/reactivex/internal/schedulers/ScheduledDirectTask.java
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jar/io/reactivex/internal/schedulers/ScheduledDirectTask.java
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jar/io/reactivex/internal/schedulers/InstantPeriodicTask.java
* /opt/ws_local/PERMITS_SQL/1094806929_1601321787.67/0/rxjava-2-2-5-sources-
jar/io/reactivex/internal/schedulers/InstantPeriodicTask.java
1.1619 libseccomp 2.3.3-4

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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@fmal.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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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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*/
/**
* 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_1603146370.48/0/lang-painless-6-8-10-sources-
  jar/org/elasticsearch/painless/DefBootstrap.java

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  jar/org/elasticsearch/painless/Def.java
* /opt/cola/permits/1101137062_1603146370.48/0/lang-painless-6-8-10-sources-
  jar/org/elasticsearch/painless/Locals.java
* /opt/cola/permits/1101137062_1603146370.48/0/lang-painless-6-8-10-sources-
1.1634 smallrye-config-common 1.6.2
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* /opt/cola/permits/1264890738_1643889126.63/0/smallrye-config-common-1-6-2-sources-jar/io/smallrye/config/common/utils/ConfigSourceUtil.java
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jar/org/wildfly/security/provider/util/ProviderServiceLoaderSupplier.java

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* /opt/cola/permits/1260754771_1643213033.98/0/wildfly-elytron-provider-util-1-11-4-final-sources-jar/org/wildfly/security/provider/util/ServiceLoaderSupplier.java
1.1637 wildfly-elytron-credential-store
1.11.4.Final

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* /opt/cola/permits/1260753887_1643212977.33/0/wildfly-elytron-credential-store-1-11-4-final-sources-jar/org/wildfly/security/credential/store/impl/KeyStoreCredentialStore.java
* /opt/cola/permits/1260753887_1643212977.33/0/wildfly-elytron-credential-store-1-11-4-final-sources-jar/org/wildfly/security/credential/store/impl/MapCredentialStore.java

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* /opt/cola/permits/1260753887_1643212977.33/0/wildfly-elytron-credential-store-1-11-4-final-sources-jar/org/wildfly/security/credential/store/package-info.java

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* /opt/cola/permits/1260754004_1643213305.84/0/wildfly-elytron-sasl-otp-1-11-4-final-sources-jar/org/wildfly/security/sasl/otp/OTPSaslServerFactory.java
* /opt/cola/permits/1260754004_1643213305.84/0/wildfly-elytron-sasl-otp-1-11-4-final-sources-jar/org/wildfly/security/sasl/otp/OTPSaslClientFactory.java
* /opt/cola/permits/1260754004_1643213305.84/0/wildfly-elytron-sasl-otp-1-11-4-final-sources-jar/org/wildfly/security/sasl/otp/OTPSaslClient.java
* /opt/cola/permits/1260754004_1643213305.84/0/wildfly-elytron-sasl-otp-1-11-4-final-sources-jar/org/wildfly/security/sasl/otp/OTPSaslServer.java

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pycparser -- A C parser in Python

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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.

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.

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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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That's all there is to it!
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@heading TERMS AND CONDITIONS

@enumerate 0
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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.

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@enumerate a
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@item
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@end enumerate

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1.1658 cyrus-sasl 2.1.26.dfsg1-14ubuntu0.1

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 * Rob Siemborski
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1.1659 hibernate-validator 5.2.4.Final

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 */
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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.
 */

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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.

 * The following listing shows an example using the JavaScript engine which comes with the JDK:

 * public void createEvent(Date start, Date end) {
 *  ... }

 * Can be specified on any method or constructor.

 * @author Gunnar Morling */

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* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2-
  jar/org/hibernate/validator/internal/cfg/context/MethodConstraintMappingContextImpl.java
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  jar/org/hibernate/validator/constraints/Range.java
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  jar/org/hibernate/validator/spi/time/TimeProvider.java
* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2-
  jar/org/hibernate/validator/constraints/ConstraintComposition.java
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  jar/org/hibernate/validator/cfg/context/ParameterTarget.java
* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2-
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  jar/org/hibernate/validator/internal/metadata/aggregated/MetaDataBuilder.java
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  jar/org/hibernate/validator/internal/util/ReflectionHelper.java
* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2-
  jar/org/hibernate/validator/internal/metadata/location/ConstraintLocation.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/engine/messageinterpolation/parser/EscapedState.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/ResourceLoaderHelper.java
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1.1661 pcre 10.32-5

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.1662 opensaml-messaging-api 3.3.0

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* /opt/cola/permits/1000740286_1646171488.95/0/opensaml-messaging-api-3-3-0-sources-jar/org/opensaml/messaging/decoder/servlet/AbstractHttpServletRequestMessageDecoder.java
* /opt/cola/permits/1000740286_1646171488.95/0/opensaml-messaging-api-3-3-0-sources-jar/org/opensaml/messaging/encoder/servlet/package-info.java
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/**
* A subcontext which carries information about whether the message channel in use is considered
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* *
* <p>
* This data is typically used to determine whether additional application- or protocol-specific signing
* and/or encryption operations are necessary.
* </p>
*/
/**
* Message channel confidentiality flag. */
/**
* Get whether message channel confidentiality is active.
* *
* @return Returns the confidentialityActive.
* */
/**
* Set whether message channel confidentiality is active.
* *
* @param flag The confidentialityActive to set.

*/

Found in path(s):
* /opt/cola/permits/1000740286_1646171488.95/0/opensaml-messaging-api-3-3-0-sources-jar/org/opensaml/messaging/context/MessageChannelSecurityContext.java

### 1.1663 jackson 2.10.1

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Dependent Modules

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1.1668 gobject-introspection 1.46.0 3ubuntu1

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* /opt/cola/permits/1260754046_1643213245.58/0/wildfly-elytron-realm-ldap-1-11-4-final-sources-jar/org/wildfly/security/auth/realm/ldap/ElytronMessages.java
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1.1680 prometheus-procfs 0.0.2

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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* /opt/cola/permits/1001043353_1646171620.81/0/opensaml-profile-impl-3-3-0-sources-jar/org/opensaml/profile/action/impl/CheckAccess.java
* /opt/cola/permits/1001043353_1646171620.81/0/opensaml-profile-impl-3-3-0-sources-jar/org/opensaml/profile/action/impl/PopulateMetricContext.java
* /opt/cola/permits/1001043353_1646171620.81/0/opensaml-profile-impl-3-3-0-sources-jar/org/opensaml/profile/action/impl/PopulateDecryptionParameters.java
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* /opt/cola/permits/1001043353_1646171620.81/0/opensaml-profile-impl-3-3-0-sources-jar/org/opensaml/profile/action/impl/LogEvent.java
* /opt/cola/permits/1001043353_1646171620.81/0/opensaml-profile-impl-3-3-0-sources-jar/org/opensaml/profile/action/impl/PopulateClientTLSValidationParameters.java
* /opt/cola/permits/1001043353_1646171620.81/0/opensaml-profile-impl-3-3-0-sources-jar/org/opensaml/profile/action/impl/HttpServletRequestMessageChannelSecurity.java

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/**
* Get whether message channel confidentiality is active.
* @return Returns the confidentialityActive.
*/
/**
* Set whether message channel confidentiality is active.
* @param flag The confidentialityActive to set.
*/

Found in path(s):
* /opt/cola/permits/1001043353_1646171620.81/0/opensaml-profile-impl-3.3.0-sources-jar/org/opensaml/profile/action/impl/StaticMessageChannelSecurity.java

1.1684 unbound 1.9.2
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1.1685junixsocket-common 2.0.4

1.1686httpcomponents-client 4.5.2
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NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR
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TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER
PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

@item Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

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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:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an ``about box''.

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@man c end

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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.]

Preamble

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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.

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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
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.

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refrain entirely from distribution of the Library.

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particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

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such claims; this section has the sole purpose of protecting the
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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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certain countries either by patents or by copyrighted interfaces, the
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an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
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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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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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Version 2, June 1991

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table of data to be supplied by an application program that uses
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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.)

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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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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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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.
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## Source Code

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

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1.1696 joda-time 2.10.1

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1.1697 jetty-util 9.4.16.v20190411

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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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* java.sun.security.ssl

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

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* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/x509/impl/CertPathPKIXTrustEvaluator.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/trust/impl/ChainingTrustEngine.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/messaging/impl/BaseClientCertAuthSecurityHandler.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/ExplicitX509CertificateTrustEngine.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/EvaluableKeyAlgorithmCredentialCriterion.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/EvaluableX509DigestCredentialCriterion.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/EvaluableX509SubjectKeyIdentifierCredentialCriterion.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/httpclient/impl/package-info.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/x509/impl/BasicX509CredentialNameEvaluator.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/EvaluableX509SubjectKeyIdentifierCredentialCriterion.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/security/impl/package-info.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/credential/impl/ChainingCredentialResolver.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/trust/impl/ExplicitKeyTrustEvaluator.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/httpclient/impl/package-info.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/credential/impl/EvaluableX509CertSelectorCredentialCriterion.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/security/impl/package-info.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/credential/impl/EvaluablePublicX509CertificateCredentialCriterion.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/x509/impl/package-info.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/x509/impl/KeyStoreX509CredentialAdapter.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/x509/impl/BasicClientTLSValidationConfiguration.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/x509/tls/impl/StaticX509CredentialKeyManager.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/x509/impl/X509CredentialNameEvaluator.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/credential/impl/AbstractCriteriaFilteringCredentialResolver.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/credential/criteria/impl/EvaluableCredentialCriterion.java
* /opt/cola/permits/1000740227_1646171526.13/0/opensaml-security-impl-3-3-0-sources-jar/org/opensaml/security/credential/impl/ExplicitX509CertificateTrustEvaluator.java

1.1699 jansi 1.8

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* /opt/cola/permits/1257860190_1643019494.64/0/jansi-1-8-sources-jar/org/fusesource/jansi/WindowsAnsiOutputStream.java
* /opt/cola/permits/1257860190_1643019494.64/0/jansi-1-8-sources-jar/org/fusesource/jansi/Ansi.java
* /opt/cola/permits/1257860190_1643019494.64/0/jansi-1-8-sources-jar/org/fusesource/jansi/AnsiConsole.java
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* /opt/cola/permits/1257860190_1643019494.64/0/jansi-1-8-sources-jar/org/fusesource/jansi/AnsiRenderWriter.java
* /opt/cola/permits/1257860190_1643019494.64/0/jansi-1-8-sources-jar/org/fusesource/jansi/AnsiRenderer.java

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jar/io/grpc/internal/ServerStream.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/TransportFrameUtil.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/ServerTransportListener.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/ReadableBuffer.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/Stream.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/AbstractStream.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/util/MutableHandlerRegistry.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/ClientTransportFactory.java

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* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/DnsNameResolverProvider.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/BackoffPolicy.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/ContextRunnable.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/inprocess/InProcessServer.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/inprocess/InProcessChannelBuilder.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/SerializeReentrantCallsDirectExecutor.java
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jar/io/grpc/internal/ManagedChannelImpl.java
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jar/io/grpc/util/ForwardingSubchannel.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
jar/io/grpc/internal/ConscryptLoader.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
jar/io/grpc/internal/ServiceConfigState.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
jar/io/grpc/util/GracefulSwitchLoadBalancer.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
jar/io/grpc/internal/TransportProvider.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
jar/io/grpc/util/ForwardingClientStreamTracer.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
jar/io/grpc/internal/ManagedChannelServiceConfig.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
jar/io/grpc/internal/JsonUtil.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
jar/io/grpc/internal/InsightBuilder.java

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  jar/io/grpc/internal/GrpcAttributes.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
  jar/io/grpc/internal/TimeProvider.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
  jar/io/grpc/internal/ReflectionLongAdderCounter.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
  jar/io/grpc/internal/TransportTracer.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
  jar/io/grpc/internal/ProxyDetectorImpl.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
  jar/io/grpc/internal/LongCounterFactory.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
  jar/io/grpc/internal/OverrideAuthorityNameResolverFactory.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
  jar/io/grpc/util/TransmitStatusRuntimeExceptionInterceptor.java
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* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/grpc-core-1-30-2-sources-jar/io/grpc/internal/ForwardingManagedChannel.java
1.1701 activation 1.1

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/*
  * @(#)CommandMap.java	1.19 05/11/16
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Found in path(s):
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  jar/javax/activation/CommandMap.java
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* @(#)DataHandler.java 1.39 05/11/16
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/*
* @(#)UnsupportedDataTypeException.java 1.9 05/11/16
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/
* @(#) TextViewer.java 1.9 05/11/16
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/*
* @(#) FileDataSource.java 1.9 05/11/16
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*/

* @(#)LogSupport.java 1.4 05/11/16
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/*
*
* @(#)DataContentHandler.java1.16 05/11/16
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Found in path(s):
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/*
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* @(#)ActivationDataFlavor.java1.14 05/11/16
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*
*/
* @(#)TextEditor.java 1.8 05/11/16
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*
*/
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@(#)package.html 1.1 05/11/16

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LicenseTypeImpl(List<LocalizedXsdString> description, boolean licenseRequired, String id, String lrid) public
LicenseType merge(MergeableMetadata<?> jmd) throws Exception

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Boolean configPropertyConfidential; private String configPropertyConfidentialId; * @param configPropertyConfidential
The element config-property-confidential is used to specify * whether the configuration property is confidential and
property as confidential. * @param configPropertyConfidentialId ID of configPropertyConfidential element
Boolean configPropertySupportsDynamicUpdates, Boolean configPropertyConfidential, String
configPropertyConfidentialId) this.configPropertyConfidential = configPropertyConfidential;
this.configPropertyConfidentialId = configPropertyConfidentialId; public Boolean getConfigPropertyConfidential()
return configPropertyConfidential; public String getConfigPropertyConfidentialId() return
configPropertyConfidentialId; configPropertyConfidential, CopyUtil.cloneString(id), mandatory,
CopyUtil.cloneString(configPropertyConfidentialId)); result = prime * result + ((configPropertyConfidential ==
null) ? 0 : configPropertyConfidential.hashCode()); result = prime * result + ((configPropertyConfidentialId == null)
? 0 : configPropertyConfidentialId.hashCode()); if (configPropertyConfidential == null) if
(other.configPropertyConfidential != null) else if
(!configPropertyConfidential.equals(other.configPropertyConfidential)) if (configPropertyConfidentialId == null) if
(other.configPropertyConfidentialId != null) else if
(!configPropertyConfidentialId.equals(other.configPropertyConfidentialId)) if (configPropertyConfidential != null)

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CONFIG_PROPERTY_CONFIDENTIAL : { configPropertyConfidential = elementAsBoolean(reader);}

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```
c.getConfigPropertyConfidential(), c.getId(), c.getConfigPropertyConfidentialId());'
```

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Boolean
```
configPropertyConfidential = configPropertyAnnotation.confidential(); configPropertyConfidential, null, false,
configPropertyConfidential, null, false,'

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```
<html>
<body>
<p>
Class, field, and method level annotations for describing thread-safety policies.
</p>

<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.<br>
</p>

<h2>Field and method annotations</h2>

<p>
```
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.
</p>

<p>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.
</p>

<p>The <code>@GuardedBy(lock)</code> annotation documents that a field or method should be accessed only with a specific lock held.
</p>

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</p>

</body>
</html>
1.1704 testify 1.4.0

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1.1705 protobuf-java 3.12.0

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/FieldSet.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/MapField.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/AbstractMessageLite.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/CodedInputStreamReader.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/google/protobuf/field_mask.proto
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/BooleanArrayList.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/UninitializedMessageException.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/UnknownFieldSet.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/Descriptors.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/BufferAllocator.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/NewInstanceSchemas.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/ProtocolStringList.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/GeneratedMessageV3.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/LazyStringList.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/google/protobuf/type.proto
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/RpcCallback.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/google/protobuf/service_context.proto
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/DescriptorMessageInfoFactory.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
jar/com/google/protobuf/ServiceException.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
1.1706 scrypt 1.3.1

1.1706.1 Available under license:

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/** A very fast and memory efficient class to encode and decode to and from BASE64 in full accordance 
with RFC 2045. */
* On Windows XP sp1 with 1.4.2_04 and later ;), this encoder and decoder is about 10 times faster
* on small arrays (10 - 1000 bytes) and 2-3 times as fast on larger arrays (10000 - 1000000 bytes)
* compared to <code>sun.misc.Encoder()/Decoder()</code>.<br>
* On byte arrays the encoder is about 20% faster than Jakarta Commons Base64 Codec for encode and
* about 50% faster for decoding large arrays. This implementation is about twice as fast on very small
* arrays (&lt; 30 bytes). If source/destination is a <code>String</code> this
* version is about three times as fast due to the fact that the Commons Codec result has to be recoded
* to a <code>String</code> from <code>byte[]</code>, which is very expensive.<br>
* This encode/decode algorithm doesn't create any temporary arrays as many other codecs do, it only
* allocates the resulting array. This produces less garbage and it is possible to handle arrays twice
* as large as algorithms that create a temporary array. (E.g. Jakarta Commons Codec). It is unknown
* whether Sun's <code>sun.misc.Encoder()/Decoder()</code> produce temporary arrays but since performance
* is quite low it probably does.<br>
* The encoder produces the same output as the Sun one except that the Sun's encoder appends
* a trailing line separator if the last character isn't a pad. Unclear why but it only adds to the
* length and is probably a side effect. Both are in conformance with RFC 2045 though.<br>
* Commons codec seem to always att a trailing line separator.<br>
* Note!</b> The encode/decode method pairs (types) come in three versions with the <b>exact</b> same algorithm and
* thus a lot of code redundancy. This is to not create any temporary arrays for transcoding to/from different
* format types. The methods not used can simply be commented out.<br>
* There is also a "fast" version of all decode methods that works the same way as the normal ones, but
* has a few demands on the decoded input. Normally though, these fast versions should be used if the source if
* the input is known and it hasn't bee tampered with.<br>
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*
* @version 2.2
* @author Mikael Grev
* Date: 2004-aug-02
* Time: 11:31:11
*/

Found in path(s):
* /opt/cola/permits/1290366583_1647553003.32/0/scrypt-1-3-1-sources-jar/com/lambdaworks/crypto/Base64.java

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Found in path(s):
* /opt/cola/permits/1290366583_1647553003.32/0/scrypt-1-3-1-sources-jar/com/lambdaworks/crypto/SCryptLessAlloc.java
* /opt/cola/permits/1290366583_1647553003.32/0/scrypt-1-3-1-sources-jar/com/lambdaworks/crypto/SCryptUtil.java
* /opt/cola/permits/1290366583_1647553003.32/0/scrypt-1-3-1-sources-jar/com/lambdaworks/crypto/SCrypt.java
* /opt/cola/permits/1290366583_1647553003.32/0/scrypt-1-3-1-sources-jar/com/lambdaworks/jni/Platform.java
* /opt/cola/permits/1290366583_1647553003.32/0/scrypt-1-3-1-sources-jar/com/lambdaworks/jni/LibraryLoaders.java
* /opt/cola/permits/1290366583_1647553003.32/0/scrypt-1-3-1-sources-jar/com/lambdaworks/jni/JarLibraryLoader.java
* /opt/cola/permits/1290366583_1647553003.32/0/scrypt-1-3-1-sources-jar/com/lambdaworks/crypto/PBKDF.java
* /opt/cola/permits/1290366583_1647553003.32/0/scrypt-1-3-1-sources-jar/com/lambdaworks/jni/SystemLibraryLoader.java
* /opt/cola/permits/1290366583_1647553003.32/0/scrypt-1-3-1-sources-jar/com/lambdaworks/jni/UnsupportedPlatformException.java
* /opt/cola/permits/1290366583_1647553003.32/0/scrypt-1-3-1-sources-jar/com/lambdaworks/jni/LibraryLoader.java
1.1707 neo4j-configuration 4.1.7

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GNU Lesser General Public License, Version 2.1
Java Native Access

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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Dependencies with multiple licenses
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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
1.1708 webencodings 0.5.1

1.1708.1 Available under license:

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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

No license file was found, but licenses were detected in source scan.

from setuptools import setup, find_packages
import io
import re

VERSION = re.search("VERSION = '([^']+)'", 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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====

webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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====

import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen


def assert_lower(string):
    assert string == string.lower()
    return string
def generate(url):
    parts = ['""'

    webencodings.labels
    ~~~~~~~~~~~~~~~~~~~~

    Map encoding labels to their name.

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# XXX Do not edit!
# This file is automatically generated by mklabels.py

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,
     ' % (label, ' ' * (max_len - len(label)), name)
    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-0.5.1-1.tar.gz/webencodings-0.5.1/webencodings/mklables.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
This is a Python implementation of the `WHATWG Encoding standard` [http://encoding.spec.whatwg.org/]

* Latest documentation: http://packages.python.org/webencodings/
* 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 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-
This is a Python implementation of the `WHATWG Encoding standard`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
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* 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.

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar-gz/webencodings-0.5.1/README.rst

1.1709 gnutls 3.4.10-4ubuntu1.5

1.1709.1 Available under license:

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## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
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##
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1.1716 json-c 0.13.1
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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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* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/ssl/JsseSslConduitEngine.java

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package compute_test

import (
    "context"
    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
// TODO: Use client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
deferr c.Close()

req := &computepb.GetLicenseCodeRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
deferr c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
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TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API. // Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient
}

// The call options for this service.
CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when // the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in // the `x-goog-api-client` header passed on each request. Intended for // use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *comptepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*comptepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.

type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

c := &licenseCodesRESTClient{
    endpoint: endpoint,
    httpClient: httpClient,
}

c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/")
    }
}
```
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
        req.GetLicenseCode())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := &computepb.LicenseCode{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.GetLicenseCodeRequest{
        Project: req.GetProject(),
        LicenseCode: req.GetLicenseCode()}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != ""
            baseUrl.Path = settings.Path
        }
if err != nil {
    return err
}
httpReq = httpReqWithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
deferr httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}
return nil,
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
      baseUrl.Path = settings.Path
    }
    if err != nil {
      return err
    }
    httpReq = httpReqWithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
      return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
      return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
      return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
      return maybeUnknownEnum(err)
    }

    return nil
  }, opts...)
  if e != nil {
    return nil, e
  }
  return resp, nil
}

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func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}
err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}
func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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package compute

import (  
  "bytes"  
  "context"  
  "fmt"  
  "io/ioutil"  
  "math"  
  "net/http"  
  "net/url"
)

gax "github.com/googleapis/gax-go/v2"  
"google.golang.org/api/googleapi"  
"google.golang.org/api/iterator"  
"google.golang.org/api/option"  
"google.golang.org/api/option/internaloption"  
httptransport "google.golang.org/api/transport/http"  
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  
"google.golang.org/grpc"  
"google.golang.org/grpc/metadata"  
"google.golang.org/protobuf/encoding/protojson"  
"google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {  
  Delete []gax.CallOption  
  Get []gax.CallOption  
  GetIamPolicy []gax.CallOption  
  Insert []gax.CallOption  
  List []gax.CallOption  
  SetIamPolicy []gax.CallOption  
  TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {  
  Close() error  
  setGoogleClientInfo(...string)  
  Connection() *grpc.ClientConn  
  Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)  
  Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)  
  GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)  
  List(context.Context, *computepb.ListLicenseRequestsRequest, ...gax.CallOption) (*computepb.LicenseList, error)  
  SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)  
  TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestIamPermissionsResponse, error)
}
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error)
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licensesRESTClient{
        endpoint:   endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{}
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{

e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
    baseUrl.Path = settings.Path
}
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:       c.operationClient,
proto: resp,
project: req.GetProject(),
}
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
params := url.Values{}
if req != nil && req.OptionsRequestedPolicyVersion != nil {
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != ""
        baseUrl.Path = settings.Path
    if err != nil {
        return err
    }
    httpReq = httpReqWithContext(ctx)
})
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil, opts...
if e != nil {
    return nil, e
}
return resp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{
        "project": []string{req.GetProject()}
    }
params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{

e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
if err != nil {
    return err
}
httpReq = httpReqWithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{
        req = proto.Clone(req).(*computepb.ListLicensesRequest)
        unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
        it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
            resp := &computepb.LicensesListResponse{
                if pageToken != "" {
                    req.PageToken = proto.String(pageToken)
                }
                if pageSize > math.MaxInt32 {
                    req.MaxResults = proto.UInt32(math.MaxInt32)
                } else if pageSize != 0 {
                    req.MaxResults = proto.UInt32(uint32(pageSize))
                }
                baseUrl, err := url.Parse(c.endpoint)
                if err != nil {
                    return nil, "", err
                }
                params := url.Values{
                    if req != nil & req.Filter != nil {
                    } else if req != nil & req.MaxResults != nil {
                        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
                    } else if req != nil & req.OrderBy != nil {
                        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
                    } else if req != nil & req.PageToken != nil {
                    }
                    } else {
                        return it.InternalFetch(pageSize, pageToken)
                    }
                }
            }
            return it.InternalFetch(pageSize, pageToken)
        }
    }
    return it
}
```
if req != nil && req.ReturnPartialSuccess != nil {
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
if err != nil {
return err
}
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
return nil, err
}
return items, nextPageToken, err
if err != nil {
    return "", err
}

it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
if err != nil {
    return nextPageToken, nil
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
        req.GetResource())
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != ""
            baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    return nil
}
// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
}
pageInfo *iterator.PageInfo
nextFunc func() error

// Response is the raw response for the current page.
// It must be cast to the RPC response type.
// Calling Next() or InternalFetch() updates this value.
Response interface{}

// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
//
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

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1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

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1.1748 html5lib 1.0.1

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1.1749 requests-ntlm 1.1.0

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1.1750 commons-codec 1.14

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* /opt/cola/permits/1000740185_1646171536.18/0/opensaml-xmlsec-impl-3-3-0-sources-jar/org/opensaml/xmlsec/signature/implementations/KeyInfoReferenceImpl.java
* /opt/cola/permits/1000740185_1646171536.18/0/opensaml-xmlsec-impl-3-3-0-sources-jar/org/opensaml/xmlsec/signature/implementations/ModulusBuilder.java
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* /opt/cola/permits/1000740185_1646171536.18/0/opensaml-xmlsec-profiles-implementations-3.3.0-sources.jar
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1.1760 jersey-server 2.28

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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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<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!
#
# 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) \ 
`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

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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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 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/

From the original distribution:

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. 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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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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Gadi Oxman, August 1995

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package gnu.classpath.tools.taglets;

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 &copy; " + tags[i].text() + "</i></dt>");
                }
            result.append("</dl>");
            return result.toString();
        }
        else {
            return null;
        }
    }
}
Version 1.3, 3 November 2008

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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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

// DO NOT EDIT THIS FILE - it is machine generated

#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 = -563657022231596674LL;
  ::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
Copyright © 2007 Free Software Foundation, Inc.

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@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007

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@enumerate 0
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@enumerate a
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/* Permission.java -- The superclass for all permission objects

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dependencies

package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @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;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * This method implements the <code>Guard</code> interface for this class.
     * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
     *
     * @param obj the <code>Object</code> being guarded - ignored by this class
     * @throws SecurityException if the security check fails
     * @see GuardedObject
     * @see SecurityManager#checkPermission(Permission)
     */
    public void checkGuard(Object obj) {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null)
            sm.checkPermission(this);
    }

    /**
     * This method tests whether this <code>Permission</code> implies that the specified <code>Permission</code> is also granted.
     */
}
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>equals</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
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a String representation of this Permission object. This is in the format:
 * (class.getName() + ' ' + getName() + ' ' + getActions + ' ')
 * @return this object as a String
 */
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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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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# 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
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 + '
')
        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(['COPYING',
                                'COPYING.LIB',
                                'COPYING3',
                                'COPYING3.LIB',
                                'LICENSE',
                                'fdl.texi',
                                'gpl_v3.texi',
                                'fdl-1.3.xml',
                                'gpl-3.0.xml',
                                'aclocal.m4',
                                'compile',
                                'aclocal.m4',
                                'makefile',
                                'autoconf',
                                'automake',
                                'configure',
                                'install',
                                'make',])
        # Skip auto- and libtool-related files

# 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.

#
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('$t$')
    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
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]{1,}[\-0-9,.\s+and\s+]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w\s\-\s\-\s?'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|\s*[' + name + ']')

        # Matches a full copyright notice:
        self.copyright_re = re.compile ( # 1: 'Copyright (C)', etc. 
                                           '(\[Cc\]opyright' + ranges + '))*\]')

    # Characters in a range of years. Include '.' for typos.
    ranges = '[0-9]{1,}[\-0-9,.\s+and\s+]*[0-9]'

    # Non-whitespace characters in a copyright holder's name.
    name = '\w\s\-\s\-\s?'

    # Matches one year.
    self.year_re = re.compile ('[0-9]+')

    # Matches part of a year or copyright holder.
    self.continuation_re = re.compile (ranges + '|\s*[' + name + ']')

    # Matches a full copyright notice:
    self.copyright_re = re.compile ( # 1: 'Copyright (C)', etc. 
                                       '\[Cc\]opyright' + ranges + '))*\]')
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*?\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).
'( + 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.copyright_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):
        # 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):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    Options:
      %s
' % sys.argv[0])
    format = '%s
' % sys.argv[0]
for (what, help) in self.option_help:
    sys.stdout.write (format % (what, help))

sys.stdout.write ('\nDirectories:\n')

format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
    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',

    # 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',
        ])

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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('The Free Software Foundation', 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.')
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 ('libc++', LibCppFilter())
        self.add_dir ('libdeciumber')
        # 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')
        # libsanitiser 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',
        'libdeciumber',
        'libgcc',
        'libgfortran',
        'libgomp',
        'libiberty',
        'libitm',
        'libjava',
        'libmudflap',
        'libobjc',
        'libquadmath',
        'libssp',
        'libstdc++-v3',
        'libvtv',
        'lto-plugin',
        'zlib']
GCCCmdLine().main()
If+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMEjava/lang/Strin
g;
ConstantValuecopyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTableName-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewwinPackageinTypeisInlineTagregister(Ljava/util/Map;)V
&(*)
java/util/Map+.put8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;
tagletMapJava/util/Map;copyrightTaglettoString(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Ta
g
506*(Lcom/sun/javadoc/Tag;Ljava/lang/String;tagLcom/sun/javadoc/Tag:2::text
=?>java/lang/String@Alength()Ljava/lang/StringBuffer
BF<dl>
BHappend,(Ljava/lang/String;Ljava/lang/StringBuffer;Ljava/lang/StringBuilderN"dt"><Copyright &#169;
KPQ(Ljava/lang/String;)V
KSIT-(Ljava/lang/String;Ljava/lang/StringBuilder;V</dt</dt>
KX0Z</dl>
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZilresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

/*1-
7.;?:C,G,K_O!,S^"QYSL*+%+WWXY-.
/01A
*2Y+S4\
7806)+=>+29<=+_BYDN-EGW67+29<-%-KYMO+29RURWG+--YGW-}F\ndefge+k/l7m>nDoSpunswv\]^_`a7TbcA>'ade
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```c
#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
        namespace security
        {
```

// DO NOT EDIT THIS FILE - it is machine generated.

```c
#include <java/lang/Object.h>
extern "Java"
{
    namespace Java
    {
        namespace security
        {
```

```c
#define __java_security_acl_Permission__
#pragma pragma interface

#include <java/lang/Object.h>
extern "Java"
{
    namespace Java
    {
        namespace security
        {
```
namespace acl
{
    class Permission;
}

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));

#pragma once

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. 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 supplied 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.) Boost Software License - Version 1.0 - August 17th, 2003

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Version 2, June 1991

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/* Definitions for BSD assembler syntax for Intel 386
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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 ("\t.cmm " , (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)))

#if defined 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 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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notice like this when it starts in an interactive mode:

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface
#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
    class AudioSecurityManager$Permission;
}
}
}
}

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__

---

1.1773 software-properties 0.96.20.9

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.1777 jsch 0.1.54

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### 1.1778 slf4j-log4j 1.7.5

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### 1.1779 typing-extensions 3.7.4.2
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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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1.1780 python-setuptools 20.7.0-1

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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`
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::

    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::
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'],
    },

    # metadata for upload to PyPI
    author = "Me",
    author_email = "me@example.com",
    description = "This is an Example Package",
    license = "PSF",
    keywords = "hello world example examples",
    url = "http://example.com/HelloWorld/",  # project home page, if any

    # could also include long_description, download_url, classifiers, etc.
)
```

In the sections that follow, we'll explain what most of these `setup()` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

###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 “2.4c1”, which in turn is newer than “2.4b1” or “2.4a1”. 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, “2.4c1” and “2.4c1” and “2.4-c1” 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 “2.4c1”, “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``, ``1.9a.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 `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.

``test_suite``
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.

``tests_require``
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.
.. _test_loader:

``test_loader``

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.

``eager_resources``

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:

```python
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 `.egg` file. 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 "eggsecutable" 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
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
   ==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST]>=0.5a4

setuptools==0.5a7
```

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:

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 = {
```
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',  
            # more script entry points ...  
        ],  
    }  
)
```

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,
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:

```
setup.py
src/
    mypkg/
        __init__.py
        mypkg.txt
    data/
        somefile.dat
        otherdata.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. Setup tools 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::

```python
from setuptools import setup, find_packages
setup(
    ...  # include all packages under src
    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 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'}

setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)

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
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
* 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:

```
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.

Making your package available for EasyInstall
---------------------------------------------

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:
.. code-block:: 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 -RDb "" sdist bdist_egg register upload
```

The first part of this command (`egg_info -RDb ""`) 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:

```bash
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 aliens 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 `.egg-info/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`.

`--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

(Notice 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:

``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
``--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:

```
ssetup.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:

```
ssetup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1
```

.. _saveopts:

``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):

```
ssetup.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:

```
ssetup.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:

```
ssetup.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

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

Normally, settings such as options and aliases are saved to the project's local `setup.cfg` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

`--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 `--user-config` or `--filename`.

`--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 `--global-config` or `--filename`.

`--filename=FILENAME, -f FILENAME`

Save settings to the specified configuration file to use. You can't combine this option with `--global-config` or `--user-config`. 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 testing.

These options are used by other `setuptools` commands that modify configuration files, such as the `alias` and `setopt` commands.

.. _setopt:

``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 --command=build --option=compiler --remove-value=mingw32
```
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 ``-r`` or ``--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:
``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 ``TestCase`` class or method, or a module or package containing ``TestCase`` 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 ``-q`` 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.:

```
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`` - Upload source and/or egg distributions to PyPI

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

The `upload` command is implemented and documented <https://docs.python.org/3.1/distutils/uploading.html>_ in distutils.

Setuptools augments the `upload` command with support for `keyring` <https://pypi.python.org/pypi/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.:

```bash
Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
 | |-- build
 | | `-- html
 | | | |-- index.html
 | | | `-- tips_tricks.html
 | |-- conf.py
 | |-- index.txt
 | `-- tips_tricks.txt
```

You can simply pass the documentation directory path to the `upload_docs` command:

```bash
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.:

```bash
[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
class MyCommand(setuptools.Command):
    description = "My custom command"
    user_options = [{'name': 'my_opt', 'type': 'str', 'help': 'my opt value'}]
```

```python
def setup():
    # ...
    entry_points = {
        'distutils.commands': ['my_cmd=MyCommand'],
    }
```
"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::

```
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):
    # ...
    ...
```
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",
        ]
    },
)```
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 = '
'.join(value)+'
    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
.. code-block:: 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

``setuptools.package_index``
---------------------------
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
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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

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

.. contents:: **Table of Contents**

`Change History <https://pythonhosted.org/setuptools/history.html>`_.

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

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`

The link provided to ez_setup.py is a bookmark to bootstrap script for the
latest known stable release.
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:

```powershell
> (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:

```powershell
> (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:

```powershell
> (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 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 `*.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:

```bash
> 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:

```bash
> 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:

```
```
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:
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:

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

Code of Conduct
---------------

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
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
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Classifier: Topic :: Software Development :: Libraries :: Python Modules
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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-INFO
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/setuptools.egg-info/PKG-INFO
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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
http://snowball.tartarus.org/

The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

The Arabic, Persian, Romanian, Bulgarian, Hindi and Bengali analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
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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,
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

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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
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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.
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mecab-ipadic-2.7.0-20070801

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mecab-ko-dic-2.0.3-20170922

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1.1789 markupsafe 1.1.1-1.ph4
1.1789.1 Available under license :
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Found in path(s):

* /opt/cola/permits/1175307147_1629390111.7/0/python-markupsafe-1.1.1-10.fc34.src.rpm-cosi-expand-archive-Sxiz7S3n/MarkupSafe-1.1.1.tar.gz-cosi-expand-archive-4kXi5Eaz/MarkupSafe-1.1.1/setup.py

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Metadata-Version: 1.2
Name: MarkupSafe
Version: 1.1.1
Summary: Safely add untrusted strings to HTML/XML markup.
Home-page: https://palletsprojects.com/p/markupsafe/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: The Pallets Team
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Documentation, https://markupsafe.palletsprojects.com/
Description: MarkupSafe

==========

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing
----------

Install and update using `pip`:

.. code-block:: text

    pip install -U MarkupSafe


Examples
--------

.. code-block:: pycon

    >>> from markupsafe import Markup, escape
    >>> # escape replaces special characters and wraps in Markup
    >>> escape('<script>alert(document.cookie);</script>')
    Markup(u'<script>alert(document.cookie);</script>')
    >>> # wrap in Markup to mark text "safe" and prevent escaping
    >>> Markup('<strong>Hello</strong>')</n    Markup('<strong>hello</strong>')
    >>> escape(Markup('<strong>Hello</strong>'))
    Markup('<strong>hello</strong>')
    >>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
    >>> # methods and operators escape their arguments
    >>> template = Markup("Hello <em>%s</em>")
    >>> template % "World"
    Markup('Hello <em>&#34;World&#34;</em>')
The Pallets organization develops and supports MarkupSafe and other libraries that use it. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

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Links
-----

* Website: https://palletsprojects.com/p/markupsafe/
* Documentation: https://markupsafe.palletsprojects.com/
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* Test status:
  * Linux, Mac: https://travis-ci.org/pallets/markupsafe
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* Test coverage: https://codecov.io/gh/pallets/markupsafe

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
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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 :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
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.*

Found in path(s):
* /opt/cola/permits/1175307147_1629390111.7/0/python-markupsafe-1.1.1-10.fc34.src.rpm-cosi-expand-archive-Sxiz7S3n/MarkupSafe-1.1.1.tar.gz-cosi-expand-archive-4kXl5Eaz/MarkupSafe-1.1.1/src/MarkupSafe.egg-
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```c
/**
 * 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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 */
```

1.1790 go-memdb 1.0.3

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1.1797 azure-core 1.24.0

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/**
 * Indicates functionality that is in preview and as such is subject to change in non-backwards compatible ways in
 * future releases, including removal, regardless of any compatibility expectations set by the containing library
 * version.
 *
 * Examples:
 *
 *  [@literal @}Beta
 *  [@literal @}Beta(since="v1.0.0")
 *  [@literal @}Beta(since="v1.2.0", reason="the feature is in preview")
 *  @Beta("introducing Foo which eventually replaces Bar")
 */

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* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/models/GeoObject.java
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GNUPG Matthew Skala 1998-08-10
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Wrote cipher/twofish.c.

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Wrote cipher/des.c.
Changes and bug fixes all over the place.

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Weak key patches.

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ANY g10 Code GmbH 2001-06-07
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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
Assigns past and future changes.
moritz@g10code.com

GNU TLS Nikolaos Mavrogiannopoulos 2003-11-22
nmav@gnutls.org
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/mpi-mul3.S, 
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpi-mul2.S, 
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LIBGCRYPT Brad Hards 2006-02-09
Assigns Past and Future Changes
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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.)

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LIBGCRYPT Werner Dittmann 2009-05-20
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(cipher/camellia-glue.c and related stuff)

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Name: systematic
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Summary: Sysadmin utility classes and scripts
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* /opt/cola/permits/1260752796_1643213300.21/0/wildfly-transaction-client-1-1-9-final-sources-
  jar/org/wildfly/transaction/client/SimpleXid.java
* /opt/cola/permits/1260752796_1643213300.21/0/wildfly-transaction-client-1-1-9-final-sources-
  jar/org/wildfly/transaction/client/naming/txn/TxnNamingContext.java
* /opt/cola/permits/1260752796_1643213300.21/0/wildfly-transaction-client-1-1-9-final-sources-
  jar/org/wildfly/transaction/client/naming/txn/TxnNamingContextFactory.java
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1.1811 scala 2.11.12
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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
Scala includes the Tools Tooltip library:

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1.1812 protoc-gen-validate 0.1.0

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* /opt/cola/permits/1260754733_1643213208.81/0/wildfly-elytron-security-manager-1-11-4-final-sources-
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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-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
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org.apache.tomcat:tomcat-jsp-api
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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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org.eclipse.jetty.toolchain:jetty-schemas

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1.1826 javassist 3.25.0-GA

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* /opt/cola/permits/1135869399_1613618193.6/javaxassist-3-25-0-ga-sources-3-jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist-3-25-0-ga-sources-3-jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist-3-25-0-ga-sources-3-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist-3-25-0-ga-sources-3-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/CondExpr.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist/compiler/ast/CondExpr.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist-3-25-0-ga-sources-3-jar/javassist/Loader.java
* /opt/cola/permits/1135869399_1613618193.6/javaxassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Visitor.java
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jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Translator.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/ClassMetaobject.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/AccessFlag.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/NotFoundException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/DeprecatedAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ClassFilePrinter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Expr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/ProxyFactory.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/TokenId.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/MemberResolver.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassType.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
1.1827 opentelemetry-context-prop 0.6.0

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* /opt/cola/permits/1094805742_1602785296.32/0/opentelemetry-context-prop-0-6-0-sources-jar/io/opentelemetry/context/propagation/DefaultContextPropagators.java
1.1828 opentracing-tracerresolver 0.1.5

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* /opt/cola/permits/1136417503_1613765677.76/0/opentracing-tracerresolver-0-1-5-sources-2-jar/META-INF/maven/io.opentracing.contrib/opentracing-tracerresolver/pom.xml

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1.1829 jackson-dataformat-yaml 2.9.8
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1.1831 metrics 3.2.5

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1.1832 v8 6.8.275.32

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THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
Email local part: ph10
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THE BASIC LIBRARY FUNCTIONS
-------------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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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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src/arc4random_unix.h
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src/getentropy_aix.c
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man/explicit_bzero.3
man/fgetln.3
man/fgetwln.3
man/funopen.3bsd
man/getbsize.3
man/heapsort.3
man/nlist.3
man/queue.3bsd
man/radixsort.3
man/reallocarray.3
man/reallocf.3
man/setmode.3
man/strmode.3
man/strnstr.3
man/unvis.3
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* /opt/cola/permits/1260753143_1643213254.57/0/wildfly-discovery-client-1-2-0-final-sources-jar/org/wildfly/discovery/ServiceRegistry.java
* /opt/cola/permits/1260753143_1643213254.57/0/wildfly-discovery-client-1-2-0-final-sources-jar/org/wildfly/discovery/ArrayIterator.java
* /opt/cola/permits/1260753143_1643213254.57/0/wildfly-discovery-client-1-2-0-final-sources-jar/org/wildfly/discovery/impl/AggregateServiceRegistration.java
* /opt/cola/permits/1260753143_1643213254.57/0/wildfly-discovery-client-1-2-0-final-sources-jar/org/wildfly/discovery/ServiceRegistration.java
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* /opt/cola/permits/1260753143_1643213254.57/0/wildfly-discovery-client-1-2-0-final-sources-jar/org/wildfly/discovery/spi/DiscoveryProvider.java
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* /opt/cola/permits/1260753143_1643213254.57/0/wildfly-discovery-client-1-2-0-final-sources-jar/org/wildfly/discovery/FilterSpec.java
* /opt/cola/permits/1260753143_1643213254.57/0/wildfly-discovery-client-1-2-0-final-sources-jar/org/wildfly/discovery/ServiceDesignation.java

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1.1847 neo4j-dbms 4.1.7

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3.3.6

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  http://www.tcpdump.org/
- libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/
- 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/
- liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the

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$Id: 3rd-party-licenses.txt 29907 2012-10-02 00:53:12Z david $
--without-liblua configuration directive.
http://www.lua.org/

- OpenSSL: Cryptographic library. OpenSSL is used by service detection
  and by NSE to connect to SSL services. NSE also provides access to
  OpenSSL functions such as encryption and digest calculation. OpenSSL
  can be disabled by configuring with the --without-openssl
  configuration directive.
  http://www.openssl.org/

- LIBLINEAR. Used for IPv6 OS classification.
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/

- libsvn. The Subversion library, used by the updater program


On Windows only, Nmap uses:

- WinPcap: libpcap for Windows. The libpcap license applies to WinPcap,
  and it also has its own license. A binary copy of the library is
  distributed with Nmap in the subdirectory mswin32/winpcap.
  http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in
licenses/BSD-simplified.

- Python. The binary distributions of Nmap include a Python interpreter
  and various libraries, built using either py2exe or py2app.
  http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:

- GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU
  LGPL 2, a copy of which is in the file licenses/LGPL-2.
  http://www.gtk.org/

- Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the
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  http://www.cairographics.org/

- libgailutil: Accessibility support for GTK+.

- libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.

- zlib and bzip2: compression libraries.

- Expat: XML parser library.
  http://expat.sourceforge.net/

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  http://www.fontconfig.org/

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The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
   http://www.x.org/ http://www.macports.org/

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

Written by: Philip Hazel
Email local part: ph10
THE C++ WRAPPER FUNCTIONS
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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.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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- 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 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
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This package contains a modified version of ca-bundle.crt:

```
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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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
jar/org/springframework/plugin/core/config/PluginNamespaceHandler.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
jar/org/springframework/plugin/core/PluginRegistry.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
jar/org/springframework/plugin/core/support/AbstractTypeAwareSupport.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
jar/org/springframework/plugin/core/support/PluginRegistryFactoryBean.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
jar/org/springframework/plugin/core/SimplePluginRegistry.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
jar/org/springframework/plugin/core/Plugin.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
jar/org/springframework/plugin/core/config/PluginRegistryDefinitionParser.java

No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
jar/org/springframework/plugin/core/support/BeanListFactoryBean.java
1.1883 libpng 1.2.54 1ubuntu1.1

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Glenn Randers-Pehrson
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November 12, 2015
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===========================================================

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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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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.

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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 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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**CAST128**
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Debian maintainer history: The original package was put together by
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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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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
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb 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
ada6ace122978d00d1d1c0e5ee45d26 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
2d8e8dfe51a88a045db233418dd73fbe 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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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
Command (m for help):
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1.1905 htop 2.2.0
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+ Anand Kumria <wildfire@progsoc.org>
+ Torsten Landschoff <torsten@debian.org>

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1.1927 cryptsetup 1.6.6 5ubuntu2.1
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1.1933 jboss-batch-api-1-0-spec 2.0.0.Final

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certaintyNode = IIOPRootDefinition.CONFIDENTIALITY.resolveModelAttribute(context, resourceModel);
if(confidentialityNode.isDefined()){ transportConfigMetaData.setConfidentiality(confidentialityNode.asString());
transportConfigMetaData.setEstablishTrustInTarget(confidentialityNode.asString());

validateSSLAttribute(context, resourceModel, sslConfigured, serverRequiresSsl, IIOPRootDefinition.CONFIDENTIALITY, warnings);'}

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* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-
  jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-
  jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-
  jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-
  jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-
  jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-
  jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshalProvider.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/compression/HuffmanCodec.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
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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.
 */

The encoding and decoding algorithm in this class has been derived from
*/

Found in path(s):
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/base64/Base64.java
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* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
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A decoder that splits the received `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
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>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

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 `initialBytesToStrip`, 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" |
* +--------+----------------+      +----------------+

* </pre>

* <h3>2 bytes length field at offset 0, do not strip header, the length field
represents the length of the whole message</h3>

* 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
* &lt;tt&gt;lengthAdjustment&lt;/tt&gt; . Because the length value in this example message
is always greater than the body length by &lt;tt&gt;2&lt;/tt&gt;, we specify &lt;tt&gt;-2&lt;/tt&gt;
as &lt;tt&gt;lengthAdjustment&lt;/tt&gt; for compensation.

* &lt;pre&gt;
* 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>

* &lt;h3&gt;3 bytes length field at the end of 5 bytes header, do not strip header</h3>

* The following message is a simple variation of the first example. An extra
header value is prepended to the message. &lt;tt&gt;lengthAdjustment&lt;/tt&gt; is zero
again because the decoder always takes the length of the prepended data into
account during frame length calculation.

* &lt;pre&gt;
* <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)

* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "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
<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" |
+----------+----------+----------------+      +----------+----------+----------------+
```

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
<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" |
+--------+--------+--------+----------------+      +--------+----------------+
```

-<h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>

-<h3>2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field</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 `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
- lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
- initialBytesToStrip = 3
```

```
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/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java

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* */

/ *
* Enumeration of supported Base64 dialects.
* *
* The internal lookup tables in this class has been derived from
*/
Found in path(s):
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java

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* /opt/cola/permits/1260753723_1643213345.57/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

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* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources.jar
  org/springframework/beans/propertyeditors/CharsetEditor.java
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* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources-jar/org/springframework/beans/NotReadablePropertyException.java
* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources-jar/org/springframework/beans/factory/SmartInitializingSingleton.java
* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources-jar/org/springframework/beans/factory/xml/AbstractSimpleBeanDefinitionParser.java

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  jar/org/springframework/beans/propertyeditors/InputStreamEditor.java
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  jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.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/BeanDefinitionCustomizer.java
* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources-
  jar/org/springframework/beans/factory/config/ImplicitlyAppearedSingletonException.java
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  jar/org/springframework/beans/factory/config/BeanFactoryPostProcessor.java
* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources-
  jar/org/springframework/beans/factory/config/SmartInstantiationAwareBeanPostProcessor.java
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* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources-jar/org/springframework/beans/ExtendedBeanInfoFactory.java
* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources-jar/org/springframework/beans/SimpleTypeConverter.java
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auto_left_margin, bw, bw
auto_right_margin, am, am
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can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
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hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
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lpi_changes_res, lpix, YG
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memory_below, db, db
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move_standout_mode, msgr, ms
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non_rev_rmcup, nrrmc, NR
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enter_shadow_mode, sshm, ZM
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enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
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exit_attribute_mode, sgr0, me
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exit_upward_mode, rum, Zx
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hangup, hup, HU
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init_2string, is2, is
init_3string, is3, i3
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init_prog, iprog, iP
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initialize_pair, initp, Ip
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insert_padding, ip, ip
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* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/AttributedStringBuilder.java
* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/Terminal.java
* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java
* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/ExternalTerminal.java
* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-jar/org/jline/utils/Curses.java
* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
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* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-jar/org/jline/utils/StyleResolver.java

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* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-
  jar/org/jline/utils/NonBlockingPumpReader.java
* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-
  jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-
  jar/org/jline/utils/WriterOutputStream.java
* /opt/cola/permits/1257532475_1642861248.72/0/jline-terminal-3-10-0-sources-
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1.1963 msrest 0.6.17

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* /opt/ws_local/PERMITS_SQL/1072388155_1594997914.91/0/msrest-0.6.17/tests/test_serialization.py
* /opt/ws_local/PERMITS_SQL/1072388155_1594997914.91/0/msrest-0.6.17/tests/asynctests/test_async_paging.py
* /opt/ws_local/PERMITS_SQL/1072388155_1594997914.91/0/msrest-0.6.17/tests/test_xml_serialization.py
* /opt/ws_local/PERMITS_SQL/1072388155_1594997914.91/0/msrest-0.6.17/tests/test_runtime.py
1.1964 commons-logging-jboss-logging
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1.1965 isort 4.3.21
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1.1967 neo4j-label-index 4.1.7
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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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jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
jar/org/springframework/aop/TargetClassAware.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-jar/org/springframework/aop/ProxyMethodInvocation.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java
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* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java

1.1980 neo4j-util 4.1.7

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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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1.1986 jakarta xml bind api 2.3.2
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1.1987 libtext-iconv-perl 1.7-5build4

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  dr-xr-xr-x  2 0 0 [LSN 24] 2048 Mar 05 2005 16:12:25 copy
  lr-xr-xr-x  1 0 0 [LSN 27]  7 Mar 05 2005 15:26:00 Copy2 -> COPYING
  -r--r--r--  1 0 0 [LSN 27] 17992 Mar 05 2005 15:25:51 COPYING
  br--r--r--  1 0 0 [LSN 36]  0 Mar 05 2005 15:32:05 l0d0
  dr-xr-xr-x  2 0 0 [LSN 25] 2048 Mar 05 2005 16:12:25 tmp
  cr--r--r--  1 0 0 [LSN 36]  0 Mar 05 2005 15:31:42 zero

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  -r-xr-xr-x  1 0 0 [LSN 27]  0 Mar 05 2005 15:26:00 Copy2
  -r-r-r--  1 0 0 [LSN 27] 17992 Mar 05 2005 15:25:51 COPYING
  -r-r-r--  1 0 0 [LSN 36]  0 Mar 05 2005 15:32:05 zero
  dr-xr-xr-x  2 0 0 [LSN 25] 2048 Mar 05 2005 16:12:25 tmp
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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jacc

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1.1995 wildfly-elytron-auth-server 1.11.4.Final

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 */
/**
 * <p>Returns a [@link PermissionVerifier] with all the permissions associated with the given information.
 * 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})
 */

Found in path(s):
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/authorz/PermissionMapper.java

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* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources.jar/org/wildfly/security/authz/RoleMapper.java
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* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources.jar/org/wildfly/security/authz/PermissionMappable.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources.jar/org/wildfly/security/credential/source/CredentialSource.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources.jar/org/wildfly/security/cache/CachedIdentity.java
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* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/callback/PasswordResetCallback.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/Scoped.java
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* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/event/SecurityPermissionCheckSuccessfulEvent.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/event/SecurityEvent.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/event/SecurityAuthenticationSuccessfulEvent.java
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* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/FlexibleIdentityAssociation.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/ssl/TLSServerEndPointChannelBinding.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/event/SecurityEventVisitor.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/event/SecurityAuthenticationEvent.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/callback/AbstractCredentialCallback.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/callback/AbstractCredentialCallback.java

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* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/permission/RunAsPrincipalPermission.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/SecurityDomain.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/NameRewriter.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/callback/ExtendedCallback.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/RealmMapper.java

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* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/permission/LoginPermission.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/event/RealmAuthorizationEvent.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/event/RealmAuthorizationEvent.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/event/RealmAuthorizationEvent.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/event/RealmAuthorizationEvent.java
* /opt/cola/permits/1260753477_1643213333.44/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/event/RealmAuthorizationEvent.java

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* /opt/cola/permits/1260754554_1643213047.08/0/wildfly-elytron-auth-1-11-4-final-sources-jar/org/wildfly/security/auth/principal/AnonymousPrincipal.java
* /opt/cola/permits/1260754554_1643213047.08/0/wildfly-elytron-auth-1-11-4-final-sources-jar/org/wildfly/security/auth/principal/package-info.java
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* /opt/cola/permits/1260754554_1643213047.08/0/wildfly-elytron-auth-1-11-4-final-sources-jar/org/wildfly/security/auth/SupportLevel.java
* /opt/cola/permits/1260754554_1643213047.08/0/wildfly-elytron-auth-1-11-4-final-sources-jar/org/wildfly/security/auth/CompositePrincipal.java
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* /opt/cola/permits/1150985920_1654022816.8854094/0/c3p0-0-9-5-2-sources-3-jar/com/mchange/v2/c3p0/stmt/ValueIdentityStatementCacheKey.java

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* /opt/ws_local/PERMITS_SQL/1046144868_1591004764.45/0/jna-5-4-0-sources-jar/com/sun/jna/win32/StdCall.java
* /opt/ws_local/PERMITS_SQL/1046144868_1591004764.45/0/jna-5-4-0-sources-jar/com/sun/jna/FunctionMapper.java
* /opt/ws_local/PERMITS_SQL/1046144868_1591004764.45/0/jna-5-4-0-sources-jar/com/sun/jna/win32/StdCallLibrary.java
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jar/com/sun/jna/NativeMappedConverter.java
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jar/com/sun/jna/IntegerType.java
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Type mapping behavior may be customized by providing a `com.sun.jna.TypeMapper` for the `com.sun.jna.Library#OPTION_TYPE_MAPPER` option when initializing a library interface. See `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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1.2008 jackson 2.8.6

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* /opt/ws_local/PERMITS_SQL/1028425503_1599194594.24/0/jackson-databind-2-8-6-javadoc.jar/com/fasterxml/jackson/databind/deser/class-use/BeanDeserializer.html
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1.2009 picketlink-api 2.5.5.SP12-redhat-00006

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1.2010 jboss-jsp-api-2-3-spec 2.0.0.Final

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  jar/org/apache/commons/digester/plugins/strategies/LoaderFromClass.java
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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/substitution/package.html
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/plugins/strategies/package.html
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/xmlrules/package.html
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/xmlrules/digester-rules.dtd
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/parser/package.html

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17 20:00:50Z rahul $

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jar/org/apache/commons/digester/plugins/PluginContext.java
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* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-jar/net/sourceforge/argparse4j/helper/ASCIITextWidthCounter.java
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* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-jar/net/sourceforge/argparse4j/inf/ArgumentChoice.java
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1.2037 opentelemetry-sdk 0.6.0
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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
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/trace/export/MultiSpanExporter.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/correlationcontext/spi/CorrelationContextManagerFactorySdk.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/trace/IdsGenerator.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/trace/AttributesMap.java
* /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/DoubleCounterSdk.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/internal/MillisClock.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/trace/export/SpanExporter.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/trace/TimedEvent.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/correlationcontext/CorrelationContextSdk.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/export/MetricExporter.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/MeterSdkProvider.java
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/**
 * Returns the registered value associated with this name and [ @code null ] version if any,
 * otherwise creates a new instance and associates it with the given name and [ @code null ]
 * version.
 *
 * @param instrumentationName the name of the instrumentation library.
 * @return the registered value associated with this name and [ @code null ] version.
 */

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jar/io/opentelemetry/sdk/metrics/MeterSdk.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-
jar/io/opentelemetry/sdk/metrics/spi/MeterProviderFactorySdk.java

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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-jar/io/opentelemetry/sdk/metrics/LongSumObserverSdk.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/export/MetricProducer.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/export/package-info.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/MeterProviderSharedState.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/aggregator/AbstractAggregator.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/trace/export/package-info.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/DoubleValueRecorderSdk.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/Batcher.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/view/Aggregation.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/view/Aggregations.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/AbstractSynchronousInstrument.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/AbstractSynchronousInstrument.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/common/InstrumentType.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/LongValueObserverSdk.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/DoubleSumObserverSdk.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/aggregator/DoubleSumAggregator.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/LongValueRecorderSdk.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/aggregator/LongMinMaxSumCount.java
* /opt/ws_local/PERMITS_SQL/1094802685_1601320049.72/0/opentelemetry-sdk-0-6-0-sources-jar/io/opentelemetry/sdk/metrics/common/InstrumentValueType.java
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  * /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/test_auth.py
  * /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/test_polling.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_requests_universal.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/asynctests/test_auth.py
  * /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/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_async_paging.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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* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21.tar-gz/msrest-0.6.21/msrest/exceptions.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21.tar-gz/msrest-0.6.21/tests/__init__.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21.tar-gz/msrest-0.6.21/msrest/polling/asyn_poller.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21.tar-gz/msrest-0.6.21/msrest/polling/poller.py
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* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21.tar-gz/msrest-0.6.21/msrest/polling/__init__.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21.tar-gz/msrest-0.6.21/msrest/polling/async_poller.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21.tar-gz/msrest-0.6.21/msrest/service_client.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21.tar-gz/msrest-0.6.21/msrest/poller.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

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

To install:

.. code-block:: bash

$ pip install msrest

Release History
---------------

2021-01-26 Version 0.6.21
+++++++++++++++++++++++++

**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
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**Features**

- Add support for attributes/text in the same XML node  #218

2020-06-25 Version 0.6.17
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**Bugfixes**

- Fix XML and discriminator  #214

2020-06-09 Version 0.6.16
+++++++++++++++++++++++++

**Bugfixes**

- Fix XML parsing with namespaces and attributes  #209

**Features**

- Add py.typed for mypy support

2020-06-04 Version 0.6.15
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**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
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**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
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**Bugfixes**

- XML mode now supports OpenAPI additional properties #174

2019-09-04 Version 0.6.10
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**Features**

- 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
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**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
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**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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Open Source Used In SDWan 20.9.1 21501
**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 unkwn. Return the string instead.

**Features**
- Model now accept kwargs in constructor for future kwargs models

2017-12-15 Version 0.4.22
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**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
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**Bugfixes**

- Fix additional_properties if Swagger was flatten #72

2017-12-13 Version 0.4.20
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**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
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**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
  item,
  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 behavoir, 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
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**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
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**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
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**Bugfixes**

- Fix regression introduced in msrest 0.4.12 - dict syntax using isodate.Duration (#42)

2017-08-21 Version 0.4.12
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**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 DeserialisationError 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
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**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
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**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
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**Bugfixes**

- Better exception message (https://github.com/Azure/autorest/pull/1300)

2016-08-15 Version 0.4.2
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**Bugfixes**

- Fix serialization if "object" type contains None (https://github.com/Azure/autorest/issues/1353)

2016-08-08 Version 0.4.1
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**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
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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
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**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
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**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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**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
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**Bugfixes**

- urllib3 side effect (https://github.com/Azure/autorest/issues/824)

2016-03-04 Version 0.1.1
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**Bugfixes**

- Source package corrupted in Pypi (https://github.com/Azure/autorest/issues/799)

2016-03-04 Version 0.1.0
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**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).
- Added ValidationError 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
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**Bugfixes**

- Fixed bug in exception logging before logger configured.
1.2039 netty-codec-http 4.1.48.Final

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* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources.jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources.jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources.jar/org/springframework/jdbc/object/GenericStoredProcedure.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources.jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources.jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java
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* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/core/simple/AbstractJdbcTemplate.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/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/datasource/LazyConnectionDataSourceProxy.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/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

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* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-jar/org/springframework/jdbc/core/RowCallbackHandler.java
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  * /springframework/jdbc/object/MappingSqlQuery.java
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  * /springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java
  * /springframework/jdbc/ArgumentPreparedStatementSetter.java
  * /springframework/jdbc/core/support/AbstractSqlTypeValue.java
  * /springframework/jdbc/datasource/ConnectionHandle.java
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  * /springframework/jdbc/object/StoredProcedure.java
  * /springframework/jdbc/core/support/GeneratedKeyHolder.java
  * /springframework/jdbc/core/UncategorizedSQLException.java
  * /springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java
  * /springframework/jdbc/core/metadata/CallMetaDataProvider.java
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 */

/**
 * Strategy interface for translating between `SQLException` exceptions and
 * Spring's data access strategy-agnostic `DataAccessException` hierarchy.
 * Implementations can be generic (for example, using
 * `SQLException#getSQLState()` 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
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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><b>NOTE</b>: 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/datasource/DataSourceTransactionManager.java
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  jar/org/springframework/jdbc/core/JdbcOperations.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
  jar/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
  jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
  jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java
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  jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
  jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.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.

This package and related packages are discussed in Chapter 9 of [Expert One-On-One J2EE Design and Development](https://www.amazon.com/exec/obidos/tg/detail/-/0764543857/) 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/io/grpc/Context.java

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1.2056 wildfly-domain-management

11.1.1.Final

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* /opt/ws_local/PERMITS_SQL/1083459562_1598192355.47/0/grpc-context-1-30-2-sources-jar/io/grpc/PersistentHashArrayMappedTrie.java

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1.2057 jetty-client 9.4.35.v20201120

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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
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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
Open Source Used In SDWan 20.9.1  21636

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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Assorted

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 */

1.2079 ssh-import-id 5.5 0ubuntu1

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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,omitemempty" xmlrpc:"enabledFlag,omitemempty"

// 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"

    // no documentation yet
    Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}

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1.2107 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/madal/. 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-activedirectory-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)](https://aka.ms/aaddev) | [Python Samples](https://github.com/Azure-Samples?q=active-
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-corrResponding-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

We leverage [Stack Overflow](https://stackoverflow.com/) to work with the community on supporting Azure Active Directory and its SDKs, including this one! We highly recommend you ask your questions on Stack Overflow (we're all on there!) Also browser existing issues to see if someone has had your question before.

We recommend you use the "adal" tag so we can see it! Here is the latest Q&A on Stack Overflow for ADAL:
## Submit Feedback

We'd like your thoughts on this library. Please complete [this short survey.](https://forms.office.com/r/wX0UuEF8kX)

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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
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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
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

We leverage [Stack Overflow](https://stackoverflow.com/) to work with the community on supporting Azure Active Directory and its SDKs, including this one! We highly recommend you ask your questions on Stack Overflow (we're all on there!) Also browse existing issues to see if someone has had your question before.

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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We'd like your thoughts on this library. Please complete [this short survey.](https://forms.office.com/r/wX0UuEF8kX)

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1.2108 aggs-matrix-stats-client 6.8.0

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lib/g_dup_name.c
lib/g_exp_sec_context.c
lib/g_export_name.c
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lib/g_imp_name.c
lib/g_imp_sec_context.c
lib/g_init_sec_context.c
lib/g_initialize.c
lib/g_inquire_context.c
lib/g_inquire_cred.c
lib/g_inquire_names.c
lib/g_process_context.c
lib/g_rel_buffer.c
lib/g_rel_cred.c
lib/g_rel_name.c
lib/g_rel_oid_set.c
lib/g_seal.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in

```
lib/gssapi/generic/gssapi_err_generic.c
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
```
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and the initial implementation of incremental propagation, including the following new or changed files:

```c
#include <iprop_hdr.h>
```
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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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
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    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
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    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/g_verify.c
and the initial implementation of incremental propagation, including
the following new or changed files:

```
.. parsed-literal::

    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.c
    kprop/kproplog.c
```

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<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
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    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
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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'/\*.*?\*/', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif 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
        ln += 1

    for fname in sys.argv[1:]:
        if fname.startswith('./ '):
            fname = fname[2:]  # Remove any leading './'
        try:
            f = open(fname)
            lines = f.readlines()
            f.close()
        except Exception as e:
            print(e)
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/SAXBuilderEngine.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderJDOMFactory.java
* /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/XMLReaders.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/AbstractReaderXSDFactory.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/SAXEngine.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderSaxFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaders.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderXSDFactory.java
* /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/XMLReaders.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderSchemaFactory.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderSaxFactory.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderXSDFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderSAX2Factory.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/SAXEngine.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderXSDFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/TextOnlyFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/PassThroughFilter.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/beans/BeanMapper.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/perf/TimeRunnable.java
* /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/xpath/XPath.java
* /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/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
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Document.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Parent.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/AbstractFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/ElementFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Comment.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/DescendantIterator.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/FilterIterator.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/JDOMParseException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/NegateFilter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/SAXHandler.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/TextBuffer.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Attribute.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/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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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestSerialization.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/doc-files/TestIds.java
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* /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.
*==================================================================
*/

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/adapters/DOMAdapter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/adapters/JAXPDOMAdapter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/StAXStreamProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/IllegaTargetException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Verifier.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/IllegaTargetException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/adapters/AbstractDOMAdapter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/unchecked/JDOMFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/Filter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/StAXStreamProcessor.java
jar/org/jdom2/IllegalNameException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/JDOMException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/IllegalAddException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/illegaladdexception.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/verifier/VerifierBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/JDOMLocator.java

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* /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/located/LocatedCDATA.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedJDOMFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedXMLFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedComment.java
* /opt/cola/permit...
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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_1613638824.69/0/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/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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* /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/impl/JNamespaceAware.java
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* content will be output using these methods, which is why there is the None
* version.
* ========================================================================
*/

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* /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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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/StAXEventBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/NamespaceContainer.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JDOMNavigator.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/stax/DTDParser.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/StAXStreamOutputter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/StAXStreamBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/StAXStreamOutputter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/AttributeType.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/AttributeFilter.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/output/EscapeStrategy.java
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* /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/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/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/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
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* /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/input/scanner/ElementScanner.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/DateUtils.java
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* /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

1.2115 kerberos 1.12

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- 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_dir.h
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- lib/gss/g_acquire_cred.c
- lib/gss/g_canon_name.c
- lib/gss/g_compare_name.c
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- lib/gss/g_dsp_name.c
- lib/gss/g_dsp_status.c
- lib/gss/g_dup_name.c
- lib/gss/g_exp_sec_context.c
- lib/gss/g_export_name.c
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- lib/gss/g_imp_sec_context.c
- lib/gss/g_init_sec_context.c
- lib/gss/g_initialize.c
- lib/gss/g_inquire_context.c
- lib/gss/g_inquire_cred.c
- lib/gss/g_inquire_names.c
- lib/gss/g_process_context.c
- lib/gss/g_rel_buffer.c
- lib/gss/g_rel_cred.c
- lib/gss/g_rel_name.c
- lib/gss/g_rel_oid_set.c
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- lib/gss/g_sign.c
- lib/gss/g_store_cred.c
- lib/gss/g_unseal.c
- lib/gss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

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
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
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/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.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.c
kprop/kproplog.c

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 * 
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 */
/**
 * 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 noConfidentialPortAvailable$str() {
    return "UT010053: No confidential port is available to redirect the current request.";
}
public final IllegalStateException noConfidentialPortAvailable() {
    final IllegalStateException result = new IllegalStateException(String.format(getLoggingLocale(),
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}

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* /opt/cola/permits/1108418567_1606143965.61/0/spring-data-rest-webmvc-3-1-19-release-sources-
jar/org/springframework/data/rest/webmvc/json/MappedProperties.java
* /opt/cola/permits/1108418567_1606143965.61/0/spring-data-rest-webmvc-3-1-19-release-sources-
jar/org/springframework/data/rest/webmvc/mapping/LinkCollector.java
* /opt/cola/permits/1108418567_1606143965.61/0/spring-data-rest-webmvc-3-1-19-release-sources-
jar/org/springframework/data/rest/webmvc/json/MappingAwareSortArgumentResolver.java
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* /opt/cola/permits/1108418567_1606143965.61/0/spring-data-rest-webmvc-3-1-19-release-sources-
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jar/org/springframework/data/rest/webmvc/support/DefaultExcerptProjector.java
* /opt/cola/permits/1108418567_1606143965.61/0/spring-data-rest-webmvc-3-1-19-release-sources-
jar/org/springframework/data/rest/webmvc/json/MappingAwareDefaultedPageableArgumentResolver.java

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* /opt/cola/permits/1108418567_1606143965.61/0/spring-data-rest-webmvc-3-1-19-release-sources-
  jar/org/springframework/data/rest/webmvc/json/patch/PatchException.java

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* /opt/cola/permits/1108418567_1606143965.61/0/spring-data-rest-webmvc-3-1-19-release-sources-jar/org/springframework/data/rest/webmvc/RepositoryRestHandlerAdapter.java
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* /opt/cola/permits/1108418567_1606143965.61/0/spring-data-rest-webmvc-3-1-19-release-sources-jar/org/springframework/data/rest/webmvc/BasePathAwareController.java
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* /opt/cola/permits/1108418567_1606143965.61/0/spring-data-rest-webmvc-3-1-19-release-sources-jar/org/springframework/data/rest/webmvc/json/patch/PatchConversionException.java
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1.2134 velocity-engine-core 2.1

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file (certdata.txt). This file can be found in the mozilla source tree:
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jar/io/netty/bootstrap/BootstrapConfig.java
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* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-jar/io/netty/bootstrap/package-info.java
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  jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
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* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/ChannelHandlerMask.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/EventLoopTaskQueueFactory.java

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* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
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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>
  *
  * <h3>The context object</h3>
  *
  * 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:
  * <pre>
  * public interface Message {
  *     // your methods here
  * }
  *
  * public class DataServerHandler extends [@link SimpleChannelInboundHandler]<Message> {&lt;Message&gt; {
  *
  *     private boolean loggedIn;&lt;/b&gt;
  *
  *     {@code @Override}
  *     public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
  *         if (message instanceof LoginMessage) {
  *             authenticate((LoginMessage) message);
  *             loggedIn = true;&lt;/b&gt;
  *         } else (message instanceof GetDataMessage) {
  *             if (&lt;b&gt;loggedIn&lt;/b&gt;) {
* 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:
* <pre>
* // Create a new handler instance per channel.
* // See link{ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}@{<link Channel>}
* 
* // Create a new handler instance per channel.
* // See link{ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}@{<link Channel>}
* 
* </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
* }
* 
* public class DataServerHandler extends {link SimpleChannelInboundHandler}@{Message}
* 
* public void channelRead({link ChannelHandlerContext} ctx, Message message) {
*   if (message instanceof LoginMessage) {
*     authenticate((LoginMessage) o);
*   } else (message instanceof GetDataMessage) {
*     attr.set(true);
*   }
* }
* </pre>
* 
*
* if (<b>Boolean.TRUE.equals(attr.get())</b>) {
  *   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:
  *
  * 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>
  *
  * 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 <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.  
  *
  * <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/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources.jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
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1.2150 jakarta-security-enterprise-api 1.0.2

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1.2152 tacacs_plus 2.6
1.2152.1 Available under license :

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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
Classifier: Intended Audience :: System Administrators
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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
Classifier: Programming Language :: Python :: Implementation :: PyPy

Found in path(s):
* /opt/cola/permits/1236563619_1638553247.51/0/tacacs-plus-2-6-tar-gz/tacacs_plus-2.6/tacacs_plus.egg-info/PKG-INFO

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Found in path(s):
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from setuptools import setup, find_packages

version = '2.6'

setup(
    name='tacacs_plus',
    version=version,
    description="A client for TACACS+ authentication",
    long_description=None,
    classifiers=[
        'Development Status :: 5 - Production/Stable',
        'Environment :: Console',
        'Intended Audience :: Developers',
    ]
)
1.2153 wildfly-elytron-http-deprecated

1.11.4.Final

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 */

Found in path(s):

1.2154 grub2 2.04

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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 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.
This program is free software: you can redistribute it and/or modify
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the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

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along with this program. If not, see <https://www.gnu.org/licenses/>.

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'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
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For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

Please email the following information to fsf-records@gnu.org, and we
will send you the assignment form that covers your program.

Please use your full legal name (in ASCII characters) as the subject
line of the message.
[What is the name of the program or package you're contributing?]

[Will this become part of a larger GNU package? If so, what package?]

[Did you copy any files or text written by someone else into the program? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]

[What country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

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@center 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.]
@end display

@subheading Preamble

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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 \textit{Lesser} General Public License because it does \textit{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \textit{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.
@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser 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.

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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
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:

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

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

4. 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.

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.

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.

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:

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
eexecutable 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.)

@item
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.

@item
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.

@item
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.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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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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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:

@enumerate
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@item
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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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries
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@var{one line to give the library's name and an idea of what it does.}
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@end smallexample

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:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
Description:
Concatenate two arbitrary file names.
Files:
lib/filenamecat.h
lib/filenamecat-lgpl.c
m4/filenamecat.m4

Depends-on:
dirname-lgpl

configure.ac:
gl_FILE_NAME_CONCAT_LGPL

Makefile.am:
lib_SOURCES += filenamecat-lgpl.c

Include:
"filenamecat.h"

License:
LGPLv2+

Maintainer:
Jim Meyering
Please email the following information to assign@gnu.org, and we will send you the assignment form for your past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.

REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]
Which files have you changed so far, and which new files have you written so far?

Description:
Provide the GNU Free Documentation License in Texinfo format.

Files:
doc/fdl.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all

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appear with all copies of the Data Files or Software, (b) both the above copyright notice(s) and this permission
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Description:
Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:
lib/getcwd-lgpl.c
m4/getcwd.m4

Depends-on:
unistd
strdup [test $REPLACE_GETCWD = 1]

configure.ac:
gl_FUNC_GETCWD_LGPL
if test $REPLACE_GETCWD = 1; then
   AC_LIBOBJ([getcwd-lgpl])
fi
gl_UNISTD_MODULE_INDICATOR([getcwd])

Makefile.am:

Include:
<unistd.h>

License:
LGPLv2+

Maintainer:
Eric Blake

Legal Issues about Contributing Code to GNU last updated 14 July 2015

Project GNU has to be careful to obey copyright laws, even though these laws are wrong when they stop people from sharing generally useful published information such as software, because we are in the public eye. We also use copyright to defend users' freedom, by means of copyleft (though this does not excuse copyright law for helping to make software proprietary).

This means that if you want to contribute software to GNU, you have to do something to give us legal permission to use it. There are three
ways this can be done:

* Assign the copyright to the Free Software Foundation. This allows the FSF to act to stop violations of the GPL.

* Keep the copyright and release the program yourself under the GNU GPL. (This alternative is too impractical for contributions to a preexisting FSF-copyrighted GNU program.)

* Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we can still use the program in GNU.

Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.

* Assigning copyright.

Assigning the copyright means signing a contract that makes the Free Software Foundation the "owner" of the program according to the law. As the copyright holder, the Foundation can sue anyone who tries to distribute the program as a proprietary product. We are willing to keep your name on the program as the author for as long as the program remains recognizably distinct. ("Owner" is in quotes to show that we don't really believe in this kind of ownership.)

The assignment contract commits the foundation to setting distribution terms that permit free redistribution.

Often we don't want to do the work of starting to distribute a program right away. There are many things which we will need in order to have a complete system but which aren't really useful until the rest of the system is done. But signing the assignment does not stop you from distributing the program yourself—as long as you do so under the GNU terms. You don't have to wait for us to start distributing. You can start distributing as soon as you attach our standard copyleft to the files. (Ask for our advice on how to do this.)

The assignment contract we normally use has a clause that permits you to use your code in proprietary programs, on 30 days' notice. (The 30 days' notice is there because, through a legal technicality, it would improve our position in a suit against a hoarder.) Although we believe that proprietary software is wrong, we include this clause because it would serve no purpose to ask you to promise not to do it. You're giving us a gift in the first place.

You don't need to invoke this clause in order to distribute copies as free software under the GNU GPL, since everyone is allowed to do that.
* Releasing it yourself.

You can release a program yourself under copyleft distribution terms such as the GNU GPL. (In order to accept the program as GNU software, we would have to be happy with your choice of terms.) This does not require a contract between you and the FSF, but we would appreciate having a signed piece of paper to confirm your decision.

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<signature of Mo Ghoul>, 1 April 1987
Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

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...in the changes and enhancements made by Hugh Hacker to the program "sample.el".

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-------------------------------------
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[Please write your email address here.]

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[Please list the files involved, or give a brief description of the changes being disclaimed.]
Description:
realpath, canonicalize_file_name: Provide canonical absolute file name

Files:
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4

Depends-on:
extensions
stdlib
nocrash
alloca-opt  [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
errno      [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
lstat      [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
malloc     [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
memmove    [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
pathmax    [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
readlink   [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
sys_stat   [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
configure.ac:

```bash
configure.ac:
gl_CANONICALIZE_LGPL
if test SHAVE_CANONICALIZE_FILE_NAME = 0 || test SREPLACE_CANONICALIZE_FILE_NAME = 1; then
    AC_LIBOBJ([canonicalize-lgpl])
fi

gl_MODULE_INDICATOR([canonicalize-lgpl])
gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
gl_STDLIB_MODULE_INDICATOR([realpath])
```

Makefile.am:

```bash
Makefile.am:

Include:

```bash
<stdlib.h>
```

License:

```bash
LGPLv2+
```

Maintainer:

```bash
all
```

Description:

```bash
Extract specific portions of filenames.
```

Files:

```bash
lib/dirmname.h
lib/dirmname-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/dirmname.m4
```

Depends-on:

```bash
dosname
double-slash-root
malloc-posix
stdbool
```

```bash
configure.ac:

configure.ac:
gl_DIRNAME_LGPL
```

Makefile.am:

```bash
Makefile.am:

lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c
```

Include:

```bash
"dirname.h"
```

License:

```bash
LGPLv2+
```
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Files:

configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])

Makefile.am:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir=$[abs_aux_dir]

Files:
tests/test-canonicalize-lgpl.c
tests/signature.h
tests/null-ptr.h
tests/macros.h

Depends-on:
ignore-value
same_inode
symlink

configure.ac:
Makefile.am:
TESTS += test-canonicalize-lgpl
check_PROGRAMS += test-canonicalize-lgpl
@c The GNU General Public License.
@center Version 2, June 1991

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

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@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}
@end example

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@end example

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

@example
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end example

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@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

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necessary. Here is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
@end example

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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Description:
Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:
doc/relocatable.texi
lib/relocatable.h
lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4

Depends-on:
strdup

configure.ac:
gl_RELOCATABLE_LIBRARY
if test $RELOCATABLE = yes; then
  AC_LIBOBJ([relocatable])
fi

Makefile.am:
DEFS += -DNO_XMALLOC
Include:
"relocatable.h"

License:
LGPLv2+

Maintainer:
Ben Pfaff

Description:
Locating a program in PATH (LGPLed version).

Files:
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:
stdbool
strdup
concat-filename
unistd

configure.ac:
gl_FINDPROG
gl_MODULE_INDICATOR((findprog-lgpl))

Makefile.am:
lib_SOURCES += findprog.h findprog.c

Include:
"findprog.h"

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LGPLv2+

Maintainer:
all

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Files:
tests/test-getcwd-lgpl.c
tests/signature.h
tests/macros.h

Depends-on:

configure.ac:

Makefile.am:

TESTS += test-getcwd-lgpl
check_PROGRAMS += test-getcwd-lgpl
test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)

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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

-------------------------------------------------------------------------------
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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.2169 python-gnupg 0.4.8

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1.2170 neo4j-batch-insert 4.1.7

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## Source Code

The project maintains the following source code repositories:

* [https://github.com/eclipse-ee4j/glassfish-ha-api](https://github.com/eclipse-ee4j/glassfish-ha-api)
* [https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor](https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor)
* [https://github.com/eclipse-ee4j/glassfish-shoal](https://github.com/eclipse-ee4j/glassfish-shoal)
* [https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck](https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck)
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* [https://github.com/eclipse-ee4j/glassfish-hk2](https://github.com/eclipse-ee4j/glassfish-hk2)
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## Third-party Content

This project leverages the following third party content.

None

## Cryptography

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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java
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jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OcspClientHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/Ocsp/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/Java9SslEngine.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/Java9SslUtils.java

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1.2173.1 Available under license:

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%% winjs version 4.4.0 (https://github.com/winjs/winjs)

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17. dotnet/csharp-tmLanguage version 0.1.0 (https://github.com/dotnet/csharp-tmLanguage)
19. HTML 5.1 W3C Working Draft version 08 October 2015 (http://www.w3.org/TR/2015/WD-html51-20151008/)
20. Ionic documentation version 1.2.4 (https://github.com/ionic-team/ionic-site)
22. js-beautify version 1.6.8 (https://github.com/beautify-web/js-beautify)
23. Jxck/assert version 1.0.0 (https://github.com/Jxck/assert)
24. language-docker (https://github.com/moby/moby)
25. language-go version 0.39.0 (https://github.com/atom/language-go)
26. language-less (https://github.com/atom/language-less)
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55. TypeScript-TmLanguage version 0.1.8 (https://github.com/Microsoft/TypeScript-TmLanguage)
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1.2186 akka 2.5.22

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