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1.5 spring-cloud-stream-binder-kafka-core 3.0.0

1.6 is-obj 1.0.1

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1.7 jetty-security 9.4.24.v20191120

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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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* java.sun.security.ssl

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

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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
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.8 create-hash 1.2.0
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1.9 spring-expression 5.2.2

1.10 cglib 3.1
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1.32 mime4j 0.8.3

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1.33 angular-cdk 8.0.2

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1.36 model-mapper 2.3.0

1.37 spring-retry 1.2.4

1.38 libbsd 0.8.3 1

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src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
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### 1.42 create-hmac 1.1.7

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1.43 sqlite 3.27.2-3~bpo9+1

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var x = document.getElementById(obj);
var b = document.getElementById(btn);
if (x.style.display != 'none'){
  x.style.display = 'none';
b.innerHTML = 'show';
} else {
  x.style.display = '';
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}
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1.44 passay 1.2.0

1.44.1 Available under license:

https://github.com/vt-middleware/passay

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1.45 evictor 1.0.0

1.46 gson 2.8.6

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

1.59 virtual-dom 2.1.1
1.59.1 Available under license:
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1.60 brave-instrumentation-httpasyncclient
5.9.0

1.61 zipkin-core 2.19.0
1.61.1 Available under license:
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1.63 protobuf-java 3.4.0

1.64 pcsc-lite 1.8.20 1
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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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**1.86 e2fsprogs 1.43.4 2+deb9u1**

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```bash
# 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"
```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSDLIB_LIB)

$(BSDLIB_LIB): $(OBSJS)
(cd pic; ld -Bshareable -o $(BSDLIB_LIB) $(LDFLAGS_SHLIB) $(OBSJS))
$(MV) pic/$(BSDLIB_LIB).
$(RM) -f $(BSDLIB_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSDLIB_LIB) $(BSDLIB_LIB))

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSDLIB_LIB)
$(RM) -f ../$(BSDLIB_LIB)

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Theodore Ts'o
23-June-2007

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files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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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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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)
/*
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- Unix SMB/CIFS implementation.
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-
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1.87 jaxen 1.1.6

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/*
$Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo $

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1.88 nodejs-asn1 0.2.4
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Eclipse

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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

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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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Assorted

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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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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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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

-----

Oracle

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

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

-----

Oracle OpenJDK

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

* java.sun.security.ssl

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

-----

OW2

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

-----
Apache

The following artifacts are ASL2 licensed.

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

-----
MortBay

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

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

-----
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

-----
Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
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1.102 jsr311-api 1.1.1

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

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* java.sun.security.ssl

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

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

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
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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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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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1.110 spring-cloud-starter-netflix-hystrix 2.2.0

1.111 Jackson data type Jdk 2.10.1

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1.115 cassandra-driver-core 3.7.2

1.116 jackson-module-afterburner 2.10.1

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1.128 jnr-ffi 2.1.7

1.129 sensible-utils 0.0.9+deb9u1
1.129.1 Available under license:
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1.130 spring-cloud-starter-consul 2.2.0

1.131 spring-aop 5.2.2

1.132 rx-netty-contexts 0.4.9
1.133 elasticsearch-securesm 6.5.4

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1.134 stream-browserify 2.0.2

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1.135 openjdk-7-jre 11.0.5+10-1~bpo9+1

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Description: Makes the generated copyright headers reproducible
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Forwarded: no
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+++ b/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java
@@ -26,6 +26,7 @@
     package build.tools.cldrconverter;
     
     import java.util.Calendar;
-    import java.util.Date;
+    import java.util.Date;
     import java.util.GregorianCalendar;
     import java.util.Locale;
     import java.util.TimeZone;
@@ -150,8 +151,14 @@
     }
     
     private static int getYear() {
     -        return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
     -                                         Locale.US).get(Calendar.YEAR);
     +        Date date = new Date();
     +        if (System.getenv("SOURCE_DATE_EPOCH") != null) {
     +            date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));  
     +        }
     +
     +        GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
     +        calendar.setTime(date);
     +        return calendar.get(Calendar.YEAR);
     }
     
     // no instantiation
--- a/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
+++ b/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
@@ -33,9 +33,13 @@
     
     import java.time.ZoneId;
     import java.time.ZonedDateTime;
     import java.util.ArrayList;
+    import java.util.Calendar;
+    import java.util.Date;
+    import java.util.GregorianCalendar;
     import java.util.List;
     import java.util.Locale;
     import java.util.Map;
+    import java.util.TimeZone;
     import java.util.TreeMap;
     
     // no instantiation
private static String getOpenJDKCopyright() {
    int year = ZonedDateTime.now(ZoneId.of("America/Los_Angeles")).getYear();
    Date date = new Date();
    if (System.getenv("SOURCE_DATE_EPOCH") != null) {
        date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
    }
    GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
    calendar.setTime(date);
    int year = calendar.get(Calendar.YEAR);
    return String.format(Locale.US, COPYRIGHT, year);
}

This package was debianized by Matthias Klose <doko@ubuntu.com> on Wed, 08 Aug 2007 15:55:39 +0200.

It was downloaded from
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http://ftp.gnome.org/pub/GNOME/sources/java-access-bridge/

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Sun Microsystems, Inc.
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Java Access Bridge:
Bill Haneman <bill.haneman@sun.com>
Louise Miller
Gerg rdi <caucus@caucus.rulez.org>
Laszlo (Laca) Peter <laszlo.peter@sun.com>
Jeff Cai <jeff.cai@sun.com>
George Kraft IV <gk4@us.ibm.com>
Padraig O'Briain <padraig.obriain@sun.com>
Darren Kenny <darren.kenny@sun.com>

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`YbodP'    o888o        o888o  o88888o
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1.139 json-path 2.4.0

1.140 spring-test 5.2.2

1.141 brave-instrumentation-jms 5.9.0

1.142 elasticsearch-cli 6.5.4
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DRuntime: Runtime Library for the D Programming Language
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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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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
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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.

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@heading TERMS AND CONDITIONS

@enumerate 0
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.163 spring-context 5.2.2

1.164 regexp 2.7.2

1.165 javax-websocket-server-impl

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

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* org.eclipse.jetty.orbit:javax.security.auth.message

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

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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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1.166 commons-lang 2.6

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Comment: This package was debianized by Wichert Akkerman 7 Jun 1998.
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src/topology/text.c  |  17 ++++++++++++--------
10 files changed, 90 insertions(+), 80 deletions(-)

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index 20fa925..dcd9e2a 100644
--- a/src/topology/builder.c
+++ b/src/topology/builder.c
@@ -2,14 +2,15 @@
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+++ b/src/topology/channel.c
@@ -2,14 +2,15 @@
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+++ b/src/topology/data.c
@@ -2,14 +2,15 @@
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@@ -2,14 +2,15 @@

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1.175 spring-security-core 5.2.1

1.176 commons-io 2.5
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1.177 spring-boot-configuration-processor
2.2.2

1.178 inherits 2.0.3

1.179 oclazyload 1.1.0
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@item
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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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```
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```
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```
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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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
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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.

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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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1.183 brave instrumentation http 5.9.0

1.184 jackson 2.10.1
1.184.1 Available under license:

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1.185 joda-convert 1.2
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1.186 spring cloud function context 3.0.0

1.187 accessors-smart 1.2

1.188 browser-split 0.0.1

1.188.1 Available under license :

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1.189 bootstrap 4.1.0

1.190 node-libs-browser 2.2.1

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1.191 mx4j 3.0.2

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

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Oracle

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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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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Eclipse

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.230 boot-starter 2.2.2

1.231 adduser 3.115

1.231.1 Available under license:

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<imurdock@debian.org> and was maintained by Steve Phillips
<sjp@cvfn.org> from sources written for the Debian Project by Ian
Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschlus.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

Since June 2006, it has been maintained by Stephen Gran <sgran@debian.org>

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1.232 builder annotations 0.18.0
1.233 web-toolkit 3.5.0

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Rev. April, 2006
Sun/Final/Full

Ubuntu Font Family Licensing FAQ

Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the [1]Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of [2]Canonical and [3]Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.
Using a licence that is compatible with other popular licences is a powerful constraint because of the network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners' experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):

* [5]SIL International
* [6]Open Font Library
* [7]Software Freedom Law Center
* [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a
"combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:

* [10]SIL Open Font Licence: When OFL fonts are embedded in a document, the OFL’s terms do not apply to that document. (See [11]OFL-FAQ for details.

* [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.

* [13]Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.

* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence
For the short-term only, the initial licence is the Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interim. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

1. Document embedding (see embedding section above).
2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:

8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: ofl-1.1-ufl-1.0.diff.html

References

13. https://launchpad.net/~uff-contributors

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1.234 delight-nashorn-sandbox 0.1.19
1.235 browserify-sign 4.0.4

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1.236 websocket-server 9.4.24.v20191120

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

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

------
Oracle

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

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

------
Oracle OpenJDK

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

* java.sun.security.ssl

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

------
OW2

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

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

------
Apache

The following artifacts are ASL2 licensed.
org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----
MortBay

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

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

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

-----
Mortbay

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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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1.237 safe-buffer 5.1.2

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package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import java.util.function.Predicate;

/**
* A permissions that is based on a general privilege that contains patterns of users that this
* user can execute a request as
*/
public final class RunAsPermission {

    public static final RunAsPermission NONE = new RunAsPermission(Privilege.NONE);

    private final Privilege privilege;
    private final Predicate<String> predicate;

    public RunAsPermission(Privilege privilege, Predicate<String> predicate) {
        this.privilege = privilege;
        this.predicate = predicate;
    }

    public boolean test(String user) {
        return predicate.test(user) && privilege.has(user);
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null || getClass() != obj.getClass()) {
            return false;
        }
        RunAsPermission other = (RunAsPermission) obj;
        return privilege == other.privilege && predicate == other.predicate;
    }

    @Override
    public int hashCode() {
        return privilege.hashCode() + ((predicate != null) ? predicate.hashCode() : 0);
    }

    // toString implementation
}
RunAsPermission(Privilege privilege) {
    this.privilege = privilege;
    this.predicate = privilege.predicate();
}

public Privilege getPrivilege() {
    return privilege;
}

/**
 * Checks if this permission grants run as to the specified user
 */
public boolean check(String username) {
    return predicate.test(username);
}

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 */
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import org.elasticsearch.Build;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.transport.TransportAddress;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.GetLicenseResponse;
import org.elasticsearch.license.License;
import org.elasticsearch.license.LicensingClient;
import org.elasticsearch.license.LicensesStatus;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.plugins.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.junit.AfterClass;
import java.io.IOException;
import java.net.InetAddress;
import java.net.InetSocketAddress;
import java.net.URL;

import java.io.IOException;
import java.net.InetAddress;
import java.net.InetSocketAddress;
import java.net.URL;
import java.nio.charset.StandardCharsets;
import java.util.Collection;
import java.util.Collections;
import static org.hamcrest.CoreMatchers.equalTo;

public class LicensingTribeIT extends ESIntegTestCase {
    private static TestCluster cluster2;
    private static TestCluster tribeNode;

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Collections.singletonList(XPackPlugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    public void setUp() throws Exception {
        super.setUp();
        if (cluster2 == null) {
            cluster2 = buildExternalCluster(System.getProperty("tests.cluster2"));
        }
        if (tribeNode == null) {
            tribeNode = buildExternalCluster(System.getProperty("tests.tribe"));
        }
    }

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        Settings.Builder builder = Settings.builder();
        builder.put(super.nodeSettings(nodeOrdinal));
        return builder.build();
    }

    @AfterClass
    public static void tearDownExternalClusters() throws IOException {
        if (cluster2 != null) {
            try {
                cluster2.close();
            } finally {
                cluster2 = null;
            }
        }
        if (tribeNode != null) {
            try {
                tribeNode.close();
            } finally {
                tribeNode = null;
            }
        }
    }
}

public static void tearDownExternalClusters() throws IOException {
    if (cluster2 != null) {
        try {
            cluster2.close();
        } finally {
            cluster2 = null;
        }
    }
    if (tribeNode != null) {
        try {
            tribeNode.close();
        } finally {
            tribeNode = null;
        }
    }
}
try {
    tribeNode.close();
} finally {
    tribeNode = null;
}
}
}

@Override
protected Settings externalClusterClientSettings() {
    Settings.Builder builder = Settings.builder();
    builder.put(XPackSettings.SECURITY_ENABLED.getKey(), false);
    builder.put(XPackSettings.MONITORING_ENABLED.getKey(), false);
    builder.put(XPackSettings.WATCHER_ENABLED.getKey(), false);
    builder.put(XPackSettings.GRAPH_ENABLED.getKey(), false);
    builder.put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false);
    return builder.build();
}

private ExternalTestCluster buildExternalCluster(String clusterAddresses) throws IOException {
    String[] stringAddresses = clusterAddresses.split(",");
    TransportAddress[] transportAddresses = new TransportAddress[stringAddresses.length];
    int i = 0;
    for (String stringAddress : stringAddresses) {
        URL url = new URL("http://" + stringAddress);
        InetAddress inetAddress = InetAddress.getByName(url.getHost());
        transportAddresses[i++] = new TransportAddress(new InetSocketAddress(inetAddress, url.getPort()));
    }
    return new ExternalTestCluster(createTempDir(), externalClusterClientSettings(), transportClientPlugins(),
    transportAddresses);
}

public void testLicensePropagateToTribeNode() throws Exception {
    assumeTrue("License is only valid when tested against snapshot/test keys", Build.CURRENT.isSnapshot());
    // test that auto-generated basic license propagates to tribe
    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = new LicensingClient(tribeNode.client()).prepareGetLicense().get();
        assertNotNull(getLicenseResponse.license());
        assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
    });

    // test that signed license with higher operation mode takes precedence
    LicensingClient cluster2Client = new LicensingClient(cluster2.client());
    PutLicenseResponse licenseResponse = cluster2Client
        .preparePutLicense(License.fromSource(new BytesArray(PLATINUM_LICENSE.getBytes(StandardCharsets.UTF_8)), XContentType.JSON))
        .setAcknowledge(true).get();


assertThat(licenseResponse.isAcknowledged(), equalTo(true));
assertThat(licenseResponse.status(), equalTo(LicensesStatus.VALID));
assertBusy(() -> {
    GetLicenseResponse getLicenseResponse = new LicensingClient(tribeNode.client()).prepareGetLicense().get();
    assertNotNull(getLicenseResponse.license());
    assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.PLATINUM));
});

// test removing signed license falls back works
assertTrue(cluster2Client.prepareDeleteLicense().get().isAcknowledged());
assertBusy(() -> {
    GetLicenseResponse getLicenseResponse = new LicensingClient(tribeNode.client()).prepareGetLicense().get();
    assertNotNull(getLicenseResponse.license());
    assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
});

public void testDummy() throws Exception {
    // this test is here so that testLicensePropagateToTribeNode's assumption
    // doesn't result in this test suite to have no tests run and trigger a build failure
}

private static final String PLATINUM_LICENSE = "{"license":{"uid":"1","type":"platinum","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAwAAAA2hWlkvKcxqQlpdVWdCtAABMc9ZNOhjZDBGYnVyRXpCOW5Bb3FjZDAxOWpShTvMoMVzwUrzRxVkJ1","P5mkxakxZdW51MhlTHN0nN1N2MXMvRFK4d37ZEx3R3RZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprrZWZSQi9iNmRQNkw1SlpLN0l","DalZCS095MRGNI1lZIpYcVVTnFrcTE2dzhJZmZrFQrne3JQeGwxb0U0MXZ0dDJHSERiZTVLOHmzSDByWnpoZEpHZHEZjUtTVB","xRENNNSkXwWJZiAlADzDvmEzUjNiWktnWGM5TUhQV2plaUo4Q1JOUm4MXNuL0pSOEhQaVB2azhmu9QVzhFeTFoM1Q0RnJXSG5","3MWk2K055c28z5mRnVkFlb2JSQkFLV2VXUmVHNDZ2R3o2E1qbVNQ2lxOHN5bUERiZINiWkZSVmZlWEtaSU9wTTJENDVtTVINCyKla","eUYykFwR9xa0tdldMmbmMzGtGq3FWOTgZ3ZUCmVQk2RUZwMFJnZzlVLd2dbDRWUzh6UGGpdENGWFRreXNKnKE9PAQAAQBWg","u3yZp0KOBG/92X4YVmana3P5asvx0FAPDX2Z7e734Tap/nc30X6t4yEEm+6bCQr/lbBOQwboJKRbbTZLBQfYFmL1ZqyAY3bJ1/"},"start_date_in_millis":-1}}");
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.protocol.xpack.license.GetLicenseRequest;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetLicenseAction extends TransportMasterNodeReadAction<GetLicenseRequest,
GetLicenseResponse> {

private final LicenseService licenseService;

@Inject
public TransportGetLicenseAction(Settings settings, TransportService transportService,
ClusterService clusterService, LicenseService licenseService, ThreadPool threadPool,
ActionFilters actionFilters, IndexNameExpressionResolver indexNameExpressionResolver) {
    super(settings, GetLicenseAction.NAME, transportService, clusterService,
GetLicenseRequest::new);
    this.licenseService = licenseService;
}

@Override
protected String executor() {
    return ThreadPool.Names.MANAGEMENT;
}

@Override
protected GetLicenseResponse newResponse() {
    return new GetLicenseResponse();
}
@Override
protected ClusterBlockException checkBlock(GetLicenseRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
}

@Override
protected void masterOperation(final GetLicenseRequest request, ClusterState state,
    final ActionListener<GetLicenseResponse> listener) throws ElasticsearchException {
    listener.onResponse(new GetLicenseResponse(licenseService.getLicense()));
}

import org.elasticsearch.xpack.core.security.authz.permission;
import org.apache.lucene.index.DirectoryReader;
import org.apache.lucene.util.Accountable;
import org.apache.lucene.util.RamUsageEstimator;
import org.apache.lucene.util.automaton.CharacterRunAutomaton;
import org.apache.lucene.util.automaton.MinimizationOperations;
import org.apache.lucene.util.automaton.Operations;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.regex.Regex;
import org.elasticsearch.index.mapper.AllFieldMapper;
import org.elasticsearch.xpack.core.security.authz.FieldSubsetReader;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition.FieldGrantExcludeGroup;
import org.elasticsearch.xpack.core.security.support.Automatons;
import java.io.IOException;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
import java.util.stream.Collectors;
import static org.apache.lucene.util.automaton.Operations.subsetOf;
/**
 * Stores patterns to fields which access is granted or denied to and maintains an automaton that can be used to check
 * if permission is
 * allowed for a specific field.
 * Field permissions are configured via a list of strings that are patterns a field has to match. Two lists determine
 * whether or
 * not a field is granted access to:
 * 1. It has to match the patterns in grantedFieldsArray
 * 2. it must not match the patterns in deniedFieldsArray
 */
public final class FieldPermissions implements Accountable {

    public static final FieldPermissions DEFAULT = new FieldPermissions();

    private static final long BASE_FIELD_PERM_DEF_BYTES = RamUsageEstimator.shallowSizeOf(new
            FieldPermissionsDefinition(null, null));
    private static final long BASE_FIELD_GROUP_BYTES = RamUsageEstimator.shallowSizeOf(new
            FieldGrantExcludeGroup(null, null));
    private static final long BASE_HASHSET_SIZE = RamUsageEstimator.shallowSizeOfInstance(HashSet.class);
    private static final long BASE_HASHSET_ENTRY_SIZE;
    static {
        HashMap<String, Object> map = new HashMap<>();
        map.put(FieldPermissions.class.getName(), new Object());
        long mapEntryShallowSize = RamUsageEstimator.shallowSizeOf(map.entrySet().iterator().next());
        // assume a load factor of 50%
        // for each entry, we need two object refs, one for the entry itself
        // and one for the free space that is due to the fact hash tables can
        // not be fully loaded
        BASE_HASHSET_ENTRY_SIZE = mapEntryShallowSize + 2 *
            RamUsageEstimator.NUM_BYTES_OBJECT_REF;
    }

    private final FieldPermissionsDefinition fieldPermissionsDefinition;
    // an automaton that represents a union of one more sets of permitted and denied fields
    private final CharacterRunAutomaton permittedFieldsAutomaton;
    private final boolean permittedFieldsAutomatonIsTotal;
    private final Automaton originalAutomaton;

    private final long ramBytesUsed;

    /** Constructor that does not enable field-level security: all fields are accepted. */
    public FieldPermissions() {
        this(new FieldPermissionsDefinition(null, null), Automatons.MATCH_ALL);
    }

    /** Constructor that enables field-level security based on include/exclude rules. Exclude rules
     * have precedence over include rules. */
    public FieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition) {

FieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition, Automaton permittedFieldsAutomaton) {
    if (permittedFieldsAutomaton.isDeterministic() == false && permittedFieldsAutomaton.getNumStates() > 1) {
        // we only accept deterministic automata so that the CharacterRunAutomaton constructor
        // directly wraps the provided automaton
        throw new IllegalArgumentException("Only accepts deterministic automata");
    }
    this.fieldPermissionsDefinition = fieldPermissionsDefinition;
    this.originalAutomaton = permittedFieldsAutomaton;
    this.permittedFieldsAutomaton = new CharacterRunAutomaton(permittedFieldsAutomaton);
    // we cache the result of isTotal since this might be a costly operation
    this.permittedFieldsAutomatonIsTotal = Operations.isTotal(permittedFieldsAutomaton);

    long ramBytesUsed = BASE_FIELD_PERM_DEF_BYTES;

    for (FieldGrantExcludeGroup group : fieldPermissionsDefinition.getFieldGrantExcludeGroups()) {
        ramBytesUsed += BASE_FIELD_GROUP_BYTES + BASE_HASHSET_ENTRY_SIZE;
        if (group.getGrantedFields() != null) {
            ramBytesUsed += RamUsageEstimator.shallowSizeOf(group.getGrantedFields());
        }
        if (group.getExcludedFields() != null) {
            ramBytesUsed += RamUsageEstimator.shallowSizeOf(group.getExcludedFields());
        }
    }
    ramBytesUsed += permittedFieldsAutomaton.ramBytesUsed();
    ramBytesUsed += runAutomatonRamBytesUsed(permittedFieldsAutomaton);
    this.ramBytesUsed = ramBytesUsed;
}

/**
 * Return an estimation of the ram bytes used by a CharacterRunAutomaton
 * that wraps the given automaton.
 */
private static long runAutomatonRamBytesUsed(Automaton a) {
    return a.getNumStates() * 5; // wild guess, better than 0
}

public static Automaton initializePermittedFieldsAutomaton(FieldPermissionsDefinition fieldPermissionsDefinition) {
    Set<FieldGrantExcludeGroup> groups = fieldPermissionsDefinition.getFieldGrantExcludeGroups();
    assert groups.size() > 0 : "there must always be a single group for field inclusion/exclusion";
    List<Automaton> automatonList =
    List`
.map(g -> FieldPermissions.initializePermittedFieldsAutomaton(g.getGrantedFields(),
g.getExcludedFields()))
    .collect(Collectors.toList());
return Automatons.unionAndMinimize(automatonList);
}

private static Automaton initializePermittedFieldsAutomaton(final String[] grantedFields, final String[]
deniedFields) {
    Automaton grantedFieldsAutomaton;
    if (grantedFields == null || Arrays.stream(grantedFields).anyMatch(Regex::isMatchAllPattern)) {
        grantedFieldsAutomaton = Automatons.MATCH_ALL;
    } else {
        // an automaton that includes metadata fields, including join fields created by the _parent field such
        // as _parent#type
        Automaton metaFieldsAutomaton = Operations.concatenate(Automata.makeChar('_'),
                                Automata.makeAnyString());
        grantedFieldsAutomaton = Operations.union(Automatons.patterns(grantedFields), metaFieldsAutomaton);
    }

    Automaton deniedFieldsAutomaton;
    if (deniedFields == null || deniedFields.length == 0) {
        deniedFieldsAutomaton = Automatons.EMPTY;
    } else {
        deniedFieldsAutomaton = Automatons.patterns(deniedFields);
    }

    grantedFieldsAutomaton = MinimizationOperations.minimize(grantedFieldsAutomaton,
                                                                Operations.DEFAULT_MAX_DETERMINIZED_STATES);
    deniedFieldsAutomaton = MinimizationOperations.minimize(deniedFieldsAutomaton,
                                                              Operations.DEFAULT_MAX_DETERMINIZED_STATES);

    if (subsetOf(deniedFieldsAutomaton, grantedFieldsAutomaton) == false) {
        throw new ElasticsearchSecurityException("Exceptions for field permissions must be a subset of the " +
                    "granted fields but " + Strings.arrayToCommaDelimitedString(deniedFields) + " is not a subset of " +
                    Strings.arrayToCommaDelimitedString(grantedFields));
    }

    if (!containsAllField(grantedFields) && !containsAllField(deniedFields)) {
        // It is not explicitly stated whether _all should be allowed/denied
        // In that case we automatically disable _all, unless all fields would match
        if (Operations.isTotal(grantedFieldsAutomaton) && Operations.isEmpty(deniedFieldsAutomaton)) {
            // all fields are accepted, so using _all is fine
            deniedFieldsAutomaton = Operations.union(deniedFieldsAutomaton,
                                                      Automata.makeString(AllFieldMapper.NAME));
        }
    }
}
grantedFieldsAutomaton = Automatons.minusAndMinimize(grantedFieldsAutomaton, 
    deniedFieldsAutomaton);
    return grantedFieldsAutomaton;
}

private static boolean containsAllField(String[] fields) {
    return fields != null && Arrays.stream(fields).anyMatch(AllFieldMapper.NAME::equals);
}

/** *
* Returns true if this field permission policy allows access to the field and false if not.
* fieldName can be a wildcard.
*/
public boolean grantsAccessTo(String fieldName) { 
    return permittedFieldsAutomatonIsTotal || permittedFieldsAutomaton.run(fieldName);
}

public FieldPermissionsDefinition getFieldPermissionsDefinition() {
    return fieldPermissionsDefinition;
}

/** Return whether field-level security is enabled, ie. whether any field might be filtered out. */
public boolean hasFieldLevelSecurity() {
    return permittedFieldsAutomatonIsTotal == false;
}

/** Return a wrapped reader that only exposes allowed fields. */
public DirectoryReader filter(DirectoryReader reader) throws IOException {
    if (hasFieldLevelSecurity() == false) {
        return reader;
    }
    return FieldSubsetReader.wrap(reader, permittedFieldsAutomaton);
}

// for testing only
Automaton getIncludeAutomaton() {
    return originalAutomaton;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    FieldPermissions that = (FieldPermissions) o;
    if (permittedFieldsAutomatonIsTotal != that.permittedFieldsAutomatonIsTotal) return false;
    if (fieldPermissionsDefinition != null ? !fieldPermissionsDefinition.equals(that.fieldPermissionsDefinition) : 
        that.fieldPermissionsDefinition != null) return false;
    return true;
}

FieldPermissions that = (FieldPermissions) o;
    if (permittedFieldsAutomatonIsTotal != that.permittedFieldsAutomatonIsTotal) return false;
    return fieldPermissionsDefinition != null ?

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fieldPermissionsDefinition.equals(that.fieldPermissionsDefinition) : that.fieldPermissionsDefinition ==
null;
}

@Override
public int hashCode() {
    int result = fieldPermissionsDefinition != null ? fieldPermissionsDefinition.hashCode() : 0;
    result = 31 * result + (permittedFieldsAutomatonIsTotal ? 1 : 0);
    return result;
}

@Override
public long ramBytesUsed() {
    return ramBytesUsed;
}

ACKNOWLEDGEMENT
=================

HPPC borrowed code, ideas or both from:

  (Apache license)
* Fastutil, http://fastutil.di.unimi.it/
  (Apache license)
* Koloboke, https://github.com/OpenHFT/Koloboke
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/*
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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.xpack.monitoring;

import org.elasticsearch.client.Client;
import org.elasticsearch.license.TribeTransportTestCase;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.monitoring.action.MonitoringBulkAction;
import org.elasticsearch.xpack.core.monitoring.action.MonitoringBulkRequest;
import java.util.Collections;
import java.util.List;

public class MonitoringTribeTests extends TribeTransportTestCase {

    @Override
    protected List<String> enabledFeatures() {
        return Collections.singletonList(XPackField.MONITORING);
    }


@Override
protected void verifyActionOnClientNode(Client client) throws Exception {
    assertMonitoringTransportActionsWorks(client);
}

@Override
protected void verifyActionOnMasterNode(Client masterClient) throws Exception {
    assertMonitoringTransportActionsWorks(masterClient);
}

@Override
protected void verifyActionOnDataNode(Client dataNodeClient) throws Exception {
    assertMonitoringTransportActionsWorks(dataNodeClient);
}

private static void assertMonitoringTransportActionsWorks(Client client) throws Exception {
    client.execute(MonitoringBulkAction.INSTANCE, new MonitoringBulkRequest());
}

@Override
protected void verifyActionOnTribeNode(Client tribeClient) {
    failAction(tribeClient, MonitoringBulkAction.INSTANCE);
}

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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.license;
import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class PostStartTrialRequestBuilder extends ActionRequestBuilder<PostStartTrialRequest,
    PostStartTrialResponse, PostStartTrialRequestBuilder> {

    PostStartTrialRequestBuilder(ElasticsearchClient client, PostStartTrialAction action) {
        super(client, action, new PostStartTrialRequest());
    }

    public PostStartTrialRequestBuilder setAcknowledge(boolean acknowledge) {
        request.acknowledge(acknowledge);
        return this;
    }
}
package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.transport.TransportRequest;
import org.elasticsearch.xpack.core.security.authz.privilege.ClusterPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.ConditionalClusterPrivilege;

import java.util.Collection;
import java.util.Collections;
import java.util.List;
import java.util.Set;
import java.util.function.Predicate;
import java.util.stream.Collectors;

/**
 * A permission that is based on privileges for cluster wide actions, with the optional ability to inspect the request object
 */
public abstract class ClusterPermission {
    private final ClusterPrivilege privilege;

    ClusterPermission(ClusterPrivilege privilege) {
        this.privilege = privilege;
    }

    public ClusterPrivilege privilege() {
        return privilege;
    }

    public abstract boolean check(String action, TransportRequest request);

    public abstract List<Tuple<ClusterPrivilege, ConditionalClusterPrivilege>> privileges();

    /**
     * A permission that is based solely on cluster privileges and does not consider request state
     */
    public static class SimpleClusterPermission extends ClusterPermission {
        private final Predicate<String> predicate;

        SimpleClusterPermission(ClusterPrivilege privilege) {
            this.predicate = null;
        }

        public ClusterPrivilege privilege() {
            return privilege;
        }

        public abstract boolean check(String action, TransportRequest request);

        public abstract List<Tuple<ClusterPrivilege, ConditionalClusterPrivilege>> privileges();

        /**
         * A permission that is based solely on cluster privileges and does not consider request state
         */
        public static class SimpleClusterPermission extends ClusterPermission {

            public static final SimpleClusterPermission NONE = new SimpleClusterPermission(ClusterPrivilege.NONE);

            private final Predicate<String> predicate;

            SimpleClusterPermission(ClusterPrivilege privilege) {

            }
super(privilege);
this.predicate = privilege.predicate();
}

@Override
class check(String action, TransportRequest request) {
    return predicate.test(action);
}

@Override
class List<Tuple<ClusterPrivilege, ConditionalClusterPrivilege>> privileges() {
    return Collections.singletonList(new Tuple<>(super.privilege, null));
}

/**
 * A permission that makes use of both cluster privileges and request inspection
 */
class ConditionalClusterPermission extends ClusterPermission {
    private final ConditionalClusterPrivilege conditionalPrivilege;

    public ConditionalClusterPermission(ConditionalClusterPrivilege conditionalPrivilege) {
        super(conditionalPrivilege.getPrivilege());
        this.conditionalPrivilege = conditionalPrivilege;
    }

    @Override
class boolean check(String action, TransportRequest request) {
        return super.privilege.predicate().test(action) && conditionalPrivilege.getRequestPredicate().test(request);
    }

    @Override
class List<Tuple<ClusterPrivilege, ConditionalClusterPrivilege>> privileges() {
        return Collections.singletonList(new Tuple<>(super.privilege, conditionalPrivilege));
    }
}

/**
 * A permission that composes a number of other cluster permissions
 */
class CompositeClusterPermission extends ClusterPermission {
    private final Collection<ClusterPermission> children;

    public CompositeClusterPermission(Collection<ClusterPermission> children) {
        super(buildPrivilege(children));
        this.children = children;
    }
private static ClusterPrivilege buildPrivilege(Collection<ClusterPermission> children) {
    final Set<String> names = children.stream()
        .map(ClusterPermission::privilege)
        .map(ClusterPrivilege::name)
        .flatMap(Set::stream)
        .collect(Collectors.toSet());
    return ClusterPrivilege.get(names);
}

@Override
public List<Tuple<ClusterPrivilege, ConditionalClusterPrivilege>> privileges() {
    return children.stream().map(ClusterPermission::privileges).flatMap(List::stream).collect(Collectors.toList());
}

@Override
public boolean check(String action, TransportRequest request) {
    return children.stream().anyMatch(p -> p.check(action, request));
}
}

this is a test license file

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.action.admin.cluster.health.ClusterHealthResponse;
import org.elasticsearch.action.admin.cluster.node.info.NodeInfo;
import org.elasticsearch.action.admin.cluster.node.info.NodesInfoResponse;
import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.client.Client;
import org.elasticsearch.client.Requests;
import org.elasticsearch.cluster.health.ClusterHealthStatus;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.Priority;
import org.elasticsearch.common.UUIDs;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.transport.TransportAddress;
import org.elasticsearch.discovery.zen.SettingsBasedHostsProvider;
import org.elasticsearch.env.Environment;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.test.ESIntegTestCase.Scope;
import org.elasticsearch.test.InternalTestCluster;
import org.elasticsearch.test.NodeConfigurationSource;
import org.elasticsearch.test.TestCluster;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.trieбе.TribePlugin;
import org.elasticsearch.xpack.CompositeTestingXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.deprecation.Deprecation;
import org.elasticsearch.xpack.core.graph.Graph;
import org.elasticsearch.xpack.logstash.Logstash;
import org.elasticsearch.xpack.ml.MachineLearning;
import org.elasticsearch.xpack.core.ml.MachineLearningField;
import org.elasticsearch.xpack.monitoring.Monitoring;
import org.elasticsearch.xpack.security.Security;
import org.elasticsearch.xpack.upgrade.Upgrade;
import org.elasticsearch.xpack.watcher.Watcher;

import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.Collections;
import java.util.List;
import java.util.function.Function;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertAcked;
import static org.hamcrest.Matchers.anyOf;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.equalTo;

@ClusterScope(scope = Scope.TEST, transportClientRatio = 0, numClientNodes = 1, numDataNodes = 2)
public abstract class TribeTransportTestCase extends ESIntegTestCase {

protected List<String> enabledFeatures() {
    return Collections.emptyList();
}

@override
protected final Settings nodeSettings(int nodeOrdinal) {
    final Settings.Builder builder = Settings.builder()
        .put(NetworkModule.HTTP_ENABLED.getKey(), false)
        .put("transport.type", getTestTransportType());
    return builder.build();
}
List<String> enabledFeatures = enabledFeatures();
builder.put(XPackSettings.SECURITY_ENABLED.getKey(), enabledFeatures.contains(XPackField.SECURITY));
builder.put(XPackSettings.MONITORING_ENABLED.getKey(), enabledFeatures.contains(XPackField.MONITORING));
builder.put(XPackSettings.WATCHER_ENABLED.getKey(), enabledFeatures.contains(XPackField.WATCHER));
builder.put(XPackSettings.GRAPH_ENABLED.getKey(), enabledFeatures.contains(XPackField.GRAPH));
builder.put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), enabledFeatures.contains(XPackField.MACHINE_LEARNING));
builder.put(MachineLearningField.AUTODETECT_PROCESS.getKey(), false);
return builder.build();
}

@Override
protected boolean ignoreExternalCluster() {
    return true;
}

@Override
protected boolean addTestZenDiscovery() {
    return false;
}

public static class TribeAwareTestZenDiscoveryPlugin extends TestZenDiscovery.TestPlugin {

    public TribeAwareTestZenDiscoveryPlugin(Settings settings) {
        super(settings);
    }

    @Override
    public Settings additionalSettings() {
        if (settings.getGroups("tribe", true).isEmpty()) {
            return super.additionalSettings();
        } else {
            return Settings.EMPTY;
        }
    }
}

public static class MockTribePlugin extends TribePlugin {

    public MockTribePlugin(Settings settings) {
        super(settings);
    }

    protected Function<Settings, Node> nodeBuilder(Path configPath) {
        return settings -> new MockNode(new Environment(settings, configPath), internalCluster().getPlugins());
    }
@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>();
    plugins.add(MockTribePlugin.class);
    plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
    plugins.add(CompositeTestingXPackPlugin.class);
    plugins.add(CommonAnalysisPlugin.class);
    return plugins;
}

@Override
protected final Collection<Class<? extends Plugin>> transportClientPlugins() {
    ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>();
    plugins.add(MockTribePlugin.class);
    plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
    plugins.add(XPackClientPlugin.class);
    plugins.add(CommonAnalysisPlugin.class);
    return plugins;
}

public void testTribeSetup() throws Exception {
    NodeConfigurationSource nodeConfigurationSource = new NodeConfigurationSource() {
        @Override
        public Settings nodeSettings(int nodeOrdinal) {
            return TribeTransportTestCase.this.nodeSettings(nodeOrdinal);
        }

        @Override
        public Path nodeConfigPath(int nodeOrdinal) {
            return null;
        }

        @Override
        public Collection<Class<? extends Plugin>> nodePlugins() {
            return TribeTransportTestCase.this.nodePlugins();
        }

        @Override
        public Settings transportClientSettings() {
            return TribeTransportTestCase.this.transportClientSettings();
        }

        @Override
        public Collection<Class<? extends Plugin>> transportClientPlugins() {
            return TribeTransportTestCase.this.transportClientPlugins();
        }
    }
final InternalTestCluster cluster2 = new InternalTestCluster(
    randomLong(), createTempDir(), true, true, 2,
    UUIDs.randomBase64UUID(random()), nodeConfigurationSource, 1, false, "tribe_node2",
    getMockPlugins(), getClientWrapper());

customizeCluster(cluster2);

cluster2.beforeTest(random(), 0.0);

logger.info("create 2 indices, test1 on t1, and test2 on t2");
assertAcked(internalCluster().client().admin().indices().prepareCreate("test1").get());
assertAcked(cluster2.client().admin().indices().prepareCreate("test2").get());
ensureYellow(internalCluster());
ensureYellow(cluster2);

// Map<String, String> asMap = internalCluster().getDefaultSettings().getAsMap();
Settings.Builder tribe1Defaults = Settings.builder();
Settings.Builder tribe2Defaults = Settings.builder();
internalCluster().getDefaultSettings().keySet().forEach(k -> {
    if (k.startsWith("path.")) {
        tribe1Defaults.copy(k, internalCluster().getDefaultSettings());
        tribe2Defaults.copy(k, internalCluster().getDefaultSettings());
    }
});
tribe1Defaults.normalizePrefix("tribe.t1. ");
tribe2Defaults.normalizePrefix("tribe.t2. ");
// give each tribe it's unicast hosts to connect to
tribe1Defaults.putList("tribe.t1." + SettingsBasedHostsProvider.DISCOVERY_ZEN_PING_UNICAST_HOSTS_SETTING.getKey(),
    getUnicastHosts(internalCluster().client()));
tribe1Defaults.putList("tribe.t2." + SettingsBasedHostsProvider.DISCOVERY_ZEN_PING_UNICAST_HOSTS_SETTING.getKey(),
    getUnicastHosts(cluster2.client()));

Settings merged = Settings.builder()
    .put("tribe.t1.cluster.name", internalCluster().getClusterName())
    .put("tribe.t2.cluster.name", cluster2.getClusterName())
    .put("tribe.t1.transport.tcp.port", 0)
    .put("tribe.t2.transport.tcp.port", 0)
    .put("tribe.t1.transport.type", getTestTransportType())
    .put("tribe.t2.transport.type", getTestTransportType())
    .put("tribe.blocks.write", false)
    .put(tribe1Defaults.build())
    .put(tribe2Defaults.build())
    .put(NetworkModule.HTTP_ENABLED.getKey(), false)
    .put(internalCluster().getDefaultSettings())
    .put(XPackSettings.SECURITY_ENABLED.getKey(), false) // otherwise it conflicts with mock transport
    .put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
    .put(MachineLearningField.AUTODETECT_PROCESS.getKey(), false)
.put("tribe.t1." + XPackSettings.SECURITY_ENABLED.getKey(), false)
    .put("tribe.t2." + XPackSettings.SECURITY_ENABLED.getKey(), false)
    .put("tribe.t1." + XPackSettings.WATCHER_ENABLED.getKey(), false)
    .put("tribe.t2." + XPackSettings.WATCHER_ENABLED.getKey(), false)
    .put("tribe.t1." + XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
    .put("tribe.t2." + XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
    .put("tribe.t1." + MachineLearningField.AUTODETECT_PROCESS.getKey(), false)
    .put("tribe.t2." + MachineLearningField.AUTODETECT_PROCESS.getKey(), false)
    .put("node.name", "tribe_node") // make sure we can identify threads from this node
    .put("transport.type", getTestTransportType())
    .build();

final List<? extends Plugin> mockPlugins = Arrays.asList(MockTribePlugin.class,
    TribeAwareTestZenDiscoveryPlugin.class,
    getTestTransportPlugin(), Deprecation.class, Graph.class, Logstash.class, MachineLearning.class,
    Monitoring.class,
    Security.class, Upgrade.class, Watcher.class, XPackPlugin.class);

final Node tribeNode = new MockNode(merged, mockPlugins).start();
Client tribeClient = tribeNode.client();
logger.info("wait till tribe has the same nodes as the 2 clusters");
assertBusy(() -> {
    DiscoveryNodes tribeNodes = tribeNode.client().admin().cluster().prepareState().get().getNodes();
    assertThat(countDataNodesForTribe("t1", tribeNodes),
        equalTo(internalCluster().client().admin().cluster().prepareState().get().getNodes().getDataNodes().size()));
    assertThat(countDataNodesForTribe("t2", tribeNodes),
        equalTo(cluster2.client().admin().cluster().prepareState().get().getNodes().getDataNodes().size()));
});
logger.info(" --> verify transport actions for tribe node");
verifyActionOnTribeNode(tribeClient);
logger.info(" --> verify transport actions for data node");
verifyActionOnDataNode((randomBoolean() ? internalCluster() : cluster2).dataNodeClient());
logger.info(" --> verify transport actions for master node");
verifyActionOnMasterNode((randomBoolean() ? internalCluster() : cluster2).masterClient());
logger.info(" --> verify transport actions for client node");
verifyActionOnClientNode((randomBoolean() ? internalCluster() : cluster2).coordOnlyNodeClient());
try {
    cluster2.wipe(Collections.<String>emptySet());
} finally {
    cluster2.afterTest();
}
tribeNode.close();
cluster2.close();

/**
* Verify transport action behaviour on client node
*/
protected abstract void verifyActionOnClientNode(Client client) throws Exception;

/**
* Verify transport action behaviour on master node
*/
protected abstract void verifyActionOnMasterNode(Client masterClient) throws Exception;

/**
* Verify transport action behaviour on data node
*/
protected abstract void verifyActionOnDataNode(Client dataNodeClient) throws Exception;

/**
* Verify transport action behaviour on tribe node
*/
protected abstract void verifyActionOnTribeNode(Client tribeClient) throws Exception;

protected void failAction(Client client, Action action) {
    try {
        client.execute(action, action.newRequestBuilder(client).request());
        fail("expected ", + action.name() + " to fail");
    } catch (IllegalStateException e) {
        assertThat(e.getMessage(), containsString("failed to find action"));
    }
}

private void ensureYellow(TestCluster testCluster) {
    ClusterHealthResponse actionGet = testCluster.client().admin().cluster()
        .health(Requests.clusterHealthRequest().waitForYellowStatus()
              .waitForEvents(Priority.LANGUID).waitForNoRelocatingShards(true)).actionGet();
    if (actionGet.isTimedOut()) {
        logger.info("ensureGreen timed out, cluster state:
{ } { }", testCluster.client().admin().cluster()
          .prepareState().get().getState(),
        testCluster.client().admin().cluster().preparePendingClusterTasks().get());
        assertThat("timed out waiting for yellow state", actionGet.isTimedOut(), equalTo(false));
    }
    assertThat(actionGet.getStatus(), anyOf(equalTo(ClusterHealthStatus.YELLOW),
        equalTo(ClusterHealthStatus.GREEN)));
}

private int countDataNodesForTribe(String tribeName, DiscoveryNodes nodes) {
    int count = 0;
    for (DiscoveryNode node : nodes) {
        if (!node.isDataNode()) {
            continue;
        }
        count ++;
    }
    return count;
}
if (tribeName.equals(node.getAttributes().get("tribe.name"))) {
    count++;
}
}
return count;
}

private static String[] getUnicastHosts(Client client) {
    ArrayList<String> unicastHosts = new ArrayList<>();
    NodesInfoResponse nodeInfos = client.admin().cluster().prepareNodesInfo().clear().setTransport(true).get();
    for (NodeInfo info : nodeInfos.getNodes()) {
        TransportAddress address = info.getTransport().getAddress().publishAddress();
        unicastHosts.add(address.getAddress() + ":" + address.getPort());
    }
    return unicastHosts.toArray(new String[unicastHosts.size()]);
}

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*/
package org.elasticsearch.license;
import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;
public class PostStartBasicAction extends Action<PostStartBasicRequest, PostStartBasicResponse, PostStartBasicRequestBuilder> {

    public static final PostStartBasicAction INSTANCE = new PostStartBasicAction();
    public static final String NAME = "cluster:admin/xpack/license/start_basic";

    private PostStartBasicAction() {
        super(NAME);
    }

    @Override
    public PostStartBasicRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new PostStartBasicRequestBuilder(client, this);
    }

    @Override
    public PostStartBasicResponse newResponse() {
        return new PostStartBasicResponse();
    }
}
import org.elasticsearch.xpack.core.security.authz.permission;
import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.common.cache.Cache;
import org.elasticsearch.common.cache.CacheBuilder;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Setting.Property;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition,FieldGrantExcludeGroup;
import org.elasticsearch.xpack.core.security.support.Automatons;

import java.util.Collection;
import java.util.List;
import java.util.Optional;
import java.util.Set;
import java.util.concurrent.ExecutionException;
import java.util.function.Predicate;
import java.util.stream.Collectors;
import static org.elasticsearch.xpack.core.security.SecurityField.setting;

/**
 * A service for managing the caching of {@link FieldPermissions} as these may often need to be combined or
 * created and internally they
 * use an {@link org.apache.lucene.util.automaton.Automaton}, which can be costly to create once you account for
 * minimization
 */
public final class FieldPermissionsCache {

    public static final Setting<Long> CACHE_SIZE_SETTING = Setting.longSetting(
        setting("authz.store.roles.field_permissions.cache.max_size_in_bytes"), 100 * 1024 * 1024, -1L,
        Property.NodeScope);

    private final Cache<FieldPermissionsDefinition, FieldPermissions> cache;

    public FieldPermissionsCache(Settings settings) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
            .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
            .weigher((key, fieldPermissions) -> fieldPermissions.ramBytesUsed())
            .build();
    }
}
/**
 * Gets a [@link FieldPermissions] instance that corresponds to the granted and denied parameters. The instance
 * may come from the cache
 * or if it gets created, the instance will be cached
 */
FieldPermissions getFieldPermissions(String[] granted, String[] denied) {
    return getFieldPermissions(new FieldPermissionsDefinition(granted, denied));
}

/**
 * Gets a [@link FieldPermissions] instance that corresponds to the granted and denied parameters. The instance
 * may come from the cache
 * or if it gets created, the instance will be cached
 */
public FieldPermissions getFieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition) {
    try {
        return cache.computeIfAbsent(fieldPermissionsDefinition,
            (key) -> new FieldPermissions(key, FieldPermissions.initializePermittedFieldsAutomaton(key)));
    } catch (ExecutionException e) {
        throw new ElasticsearchException("unable to compute field permissions", e);
    }
}

/**
 * Returns a field permissions object that corresponds to the merging of the given field permissions and caches the
 * instance if one was
 * not found in the cache.
 */
FieldPermissions getFieldPermissions(Collection<FieldPermissions> fieldPermissionsCollection) {
    Optional<FieldPermissions> allowAllFieldPermissions = fieldPermissionsCollection.stream()
        .filter(((Predicate<FieldPermissions>) (FieldPermissions::hasFieldLevelSecurity)).negate())
        .findFirst();
    return allowAllFieldPermissions.orElseGet(() -> {
        final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups = fieldPermissionsCollection.stream()
            .flatMap(fieldPermission ->
                fieldPermission.getFieldPermissionsDefinition().getFieldGrantExcludeGroups().stream())
            .collect(Collectors.toSet());
        final FieldPermissionsDefinition combined = new FieldPermissionsDefinition(fieldGrantExcludeGroups);
        try {
            return cache.computeIfAbsent(combined, (key) -> {
                List<Automaton> automatonList = fieldPermissionsCollection.stream()
                    .map(FieldPermissions::getIncludeAutomaton)
                    .collect(Collectors.toList());
                return new FieldPermissions(key, Automatons.unionAndMinimize(automatonList));
            });
        } catch (ExecutionException e) {
            throw new ElasticsearchException("unable to compute field permissions", e);
        }
    });
}
this is a test notice file

package org.elasticsearch.license;

import org.elasticsearch.client.Client;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;
import org.elasticsearch.protocol.xpack.license.GetLicenseRequest;
import static org.elasticsearch.license.TestUtils.generateSignedLicense;

public class LicenseTribeTests extends TribeTransportTestCase {

    @Override
    protected void verifyActionOnClientNode(Client client) throws Exception {
        assertLicenseTransportActionsWorks(client);
    }

    @Override
    protected void verifyActionOnMasterNode(Client masterClient) throws Exception {
        assertLicenseTransportActionsWorks(masterClient);
    }

    @Override
    protected void verifyActionOnDataNode(Client dataNodeClient) throws Exception {
        assertLicenseTransportActionsWorks(dataNodeClient);
    }

    private static void assertLicenseTransportActionsWorks(Client client) throws Exception {
        client.execute(GetLicenseAction.INSTANCE, new GetLicenseRequest()).get();
        client.execute(PutLicenseAction.INSTANCE, new PutLicenseRequest()
                .license(generateSignedLicense(TimeValue.timeValueHours(1))));
        client.execute(DeleteLicenseAction.INSTANCE, new DeleteLicenseRequest());
    }

    @Override
    protected void verifyActionOnTribeNode(Client tribeClient) throws Exception {
        // The get licence action should work, but everything else should fail
        tribeClient.execute(GetLicenseAction.INSTANCE, new GetLicenseRequest()).get();
        failAction(tribeClient, PutLicenseAction.INSTANCE);
    }
}
failAction(tribeClient, DeleteLicenseAction.INSTANCE);

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class PostStartTrialAction extends Action<PostStartTrialRequest, PostStartTrialResponse,
PostStartTrialRequestBuilder> {

public static final PostStartTrialAction INSTANCE = new PostStartTrialAction();
public static final String NAME = "cluster:admin/xpack/license/start_trial";

private PostStartTrialAction() {
    super(NAME);
}

@Override
public PostStartTrialRequestBuilder newRequestBuilder(ElasticsearchClient client) {
    return new PostStartTrialRequestBuilder(client, this);
}

@Override
public PostStartTrialResponse newResponse() {
    return new PostStartTrialResponse();
}

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Chuguev
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 */
package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.util.set.Sets;

import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.util.set.Sets;
import org.elasticsearch.xpack.core.security.authz.RoleDescriptor;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.IndicesAccessControl;
import org.elasticsearch.xpack.core.security.authz.privilege.ApplicationPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.ClusterPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.ConditionalClusterPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;

public final class Role {

    public static final Role EMPTY = Role.builder("__empty").build();

    private final String[] names;
    private final ClusterPermission cluster;
    private final IndicesPermission indices;
    private final ApplicationPermission application;
    private final RunAsPermission runAs;

    Role(String[] names, ClusterPermission cluster, IndicesPermission indices, ApplicationPermission application, RunAsPermission runAs) {
        this.names = names;
        this.cluster = Objects.requireNonNull(cluster);
        this.indices = Objects.requireNonNull(indices);
        this.application = Objects.requireNonNull(application);
        this.runAs = Objects.requireNonNull(runAs);
    }

    public String[] names() {
        return names;
    }

    public ClusterPermission cluster() {
        return cluster;
    }

    public IndicesPermission indices() {
        return indices;
    }

    public ApplicationPermission application() {
        return application;
    }
}
return application;
}

public RunAsPermission runAs() {
    return runAs;
}

public static Builder builder(String... names) {
    return new Builder(names, null);
}

public static Builder builder(String[] names, FieldPermissionsCache fieldPermissionsCache) {
    return new Builder(names, fieldPermissionsCache);
}

public static Builder builder(RoleDescriptor rd, FieldPermissionsCache fieldPermissionsCache) {
    return new Builder(rd, fieldPermissionsCache);
}

/**
 * Returns whether at least one group encapsulated by this indices permissions is authorized to execute the
 * specified action with the requested indices/aliases. At the same time if field and/or document level security
 * is configured for any group also the allowed fields and role queries are resolved.
 */
public IndicesAccessControl authorize(String action, Set<String> requestedIndicesOrAliases, MetaData

FieldPermissionsCache fieldPermissionsCache) {
    Map<String, IndicesAccessControl.IndexAccessControl> indexPermissions = indices.authorize(
        action, requestedIndicesOrAliases, metaData, fieldPermissionsCache
    );

    // At least one role / indices permission set need to match with all the requested indices/aliases:
    boolean granted = true;
    for (Map.Entry<String, IndicesAccessControl.IndexAccessControl> entry : indexPermissions.entrySet()) {
        if (!entry.getValue().isGranted()) {
            granted = false;
            break;
        }
    }
    return new IndicesAccessControl(granted, indexPermissions);
}

public static class Builder {

    private final String[] names;
    private ClusterPermission cluster = ClusterPermission.SimpleClusterPermission.NONE;
    private RunAsPermission runAs = RunAsPermission.NONE;
    private List<IndicesPermission.Group> groups = new ArrayList<>();

}
private FieldPermissionsCache fieldPermissionsCache = null;
private List<Tuple<ApplicationPrivilege, Set<String>>> applicationPrivs = new ArrayList<>();

private Builder(String[] names, FieldPermissionsCache fieldPermissionsCache) {
    this.names = names;
    this.fieldPermissionsCache = fieldPermissionsCache;
}

private Builder(RoleDescriptor rd, @Nullable FieldPermissionsCache fieldPermissionsCache) {
    this.names = new String[] { rd.getName() };
    this.fieldPermissionsCache = fieldPermissionsCache;
    cluster(Sets.newHashSet(rd.getClusterPrivileges()), Arrays.asList(rd.getConditionalClusterPrivileges()));
    groups.addAll(convertFromIndicesPrivileges(rd.getIndicesPrivileges(), fieldPermissionsCache));

    final RoleDescriptor.ApplicationResourcePrivileges[] applicationPrivileges = rd.getApplicationPrivileges();
    for (int i = 0; i < applicationPrivileges.length; i++) {
        applicationPrivs.add(convertApplicationPrivilege(rd.getName(), i, applicationPrivileges[i]));
    }

    String[] rdRunAs = rd.getRunAs();
    if (rdRunAs != null && rdRunAs.length > 0) {
        this.runAs(new Privilege(Sets.newHashSet(rdRunAs), rdRunAs));
    }
}

public Builder cluster(Set<String> privilegeNames, Iterable<ConditionalClusterPrivilege> conditionalClusterPrivileges) {
    List<ClusterPermission> clusterPermissions = new ArrayList<>();
    if (privilegeNames.isEmpty() == false) {
        clusterPermissions.add(new ClusterPermission.SimpleClusterPermission(ClusterPrivilege.get(privilegeNames)));
    }
    for (ConditionalClusterPrivilege ccp : conditionalClusterPrivileges) {
        clusterPermissions.add(new ClusterPermission.ConditionalClusterPermission(ccp));
    }
    if (clusterPermissions.isEmpty()) {
        this.cluster = ClusterPermission.SimpleClusterPermission.NONE;
    } else if (clusterPermissions.size() == 1) {
        this.cluster = clusterPermissions.get(0);
    } else {
        this.cluster = new ClusterPermission.CompositeClusterPermission(clusterPermissions);
    }
    return this;
}

/**
 * @deprecated Use {@link #cluster(Set, Iterable)}
 */
@Deprecated
class Builder {
  private ClusterPermission cluster;
  private RunAsPermission runAs;
  private Set<IndicesPermission.Group> groups;
  private ApplicationPermission applicationPrivs;

  private Builder cluster(ClusterPrivilege privilege) {
    cluster = new ClusterPermission.SimpleClusterPermission(privilege);
    return this;
  }

  private Builder runAs(Privilege privilege) {
    runAs = new RunAsPermission(privilege);
    return this;
  }

  private Builder add(IndexPrivilege privilege, String... indices) {
    groups.add(new IndicesPermission.Group(privilege, FieldPermissions.DEFAULT, null, indices));
    return this;
  }

  private Builder add(FieldPermissions fieldPermissions, Set<BytesReference> query, IndexPrivilege privilege, String... indices) {
    groups.add(new IndicesPermission.Group(privilege, fieldPermissions, query, indices));
    return this;
  }

  private Builder addApplicationPrivilege(ApplicationPrivilege privilege, Set<String> resources) {
    applicationPrivs.add(new Tuple<>(privilege, resources));
    return this;
  }

  public Role build() {
    IndicesPermission indices = groups.isEmpty() ? IndicesPermission.NONE :
      new IndicesPermission(groups.toArray(new IndicesPermission.Group[groups.size()]));
    ApplicationPermission applicationPermission = applicationPrivs.isEmpty() ? ApplicationPermission.NONE :
      new ApplicationPermission(applicationPrivs);
    return new Role(names, cluster, indices, applicationPermission, runAs);
  }

  static List<IndicesPermission.Group> convertFromIndicesPrivileges(RoleDescriptor.IndicesPrivileges[] indicesPrivileges, @Nullable FieldPermissionsCache fieldPermissionsCache) {
    List<IndicesPermission.Group> list = new ArrayList<>(indicesPrivileges.length);
    for (RoleDescriptor.IndicesPrivileges privilege : indicesPrivileges) {
      final FieldPermissions fieldPermissions = new FieldPermissions(new FieldPermissionsDefinition(privilege.getGrantedFields(), privilege.getDeniedFields()),
        privilege.getGrantedFields(), privilege.getDeniedFields());
      list.add(new IndicesPermission.Group(privilege, fieldPermissions, query, indices));
    }
    return list;
  }
}
final Set<BytesReference> query = privilege.getQuery() == null ? null : Collections.singleton(privilege.getQuery());
list.add(new IndicesPermission.Group(IndexPrivilege.get(Sets.newHashSet(privilege.getPrivileges())), fieldPermissions, query, privilege.getIndices());
}
return list;

static Tuple<ApplicationPrivilege, Set<String>> convertApplicationPrivilege(String role, int index, RoleDescriptor.ApplicationResourcePrivileges arp) {
    return new Tuple<>(new ApplicationPrivilege(arp.getApplication(), Sets.newHashSet(arp.getPrivileges()), arp.getPrivileges()), Sets.newHashSet(arp.getResources()));
}

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**/
---
teardown:
- do:
xpack.license.post:
  acknowledge: true
  body: |
    "{\"licenses":[{"uid":"3aa62ffe-36e1-4fad-bfdc-9dff8301eb22","type":"trial","issue_date_in_millis":1523456691721,"expiry_date_in_millis":1838816691721,"max_nodes":5,"issued_to":"customer","issuer":"elasticsearch","signature":"AAAABAAAAAA2kWNcuc+DT0hlmYZKA079}]
}
"Installing and getting license works":

```
## current license version
- do:
  xpack.license.post:
    acknowledge: true
    body: |
      ["licenses":[{"uid":"894371dc-9t49-4997-93cb-802e37fa6a8","type":"trial","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1916956799999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":null,"body":null},]
- match: { license_status: "valid" }
- do:
  xpack.license.get: {}  
```

"a license object has 11 attributes"

```
## a license object has 11 attributes
- length: { license: 11 }
```

"bwc for licenses format"

```
## bwc for licenses format
- do:
  xpack.license.post:
    acknowledge: true
    body: |
      ["licenses":[{"uid":"893361dc-9749-4997-93cb-802e37fa4a8","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":null,"body":null},]
- match: { license_status: "valid" }
- do:
  xpack.license.get: {}  
```

- match: { license_status: "valid" }
- do:
  xpack.license.get: {}
ZHBEZjUrTVBxRENNSXNsWWjZlalODdzVmeUjNiWktNWWM5TUhQV2plaUo4Q1JOUml4MNXNuL0pSOEhQvBV2azhmUk9QVzhhFeTFoM1Q0RnJXSG53Mwk2K055c28zSnReVkJib2JSQkFLV2VXUmVHNDZ2R3o2VEliqVNQS2lxOH5n5uERZi1iWNkZSmVZi1iWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6ldDbmMzSGrqQc3FWOTgzzZ3UczXMvQkzt2RUzwMFJnZzlvL2d2bDRWUzh6UG5pENGFWRteXNKKeE9PQAAAQB7pGQFYaVLMn92zT8OLvcLHjyt1t/v2uSzCQWkdXXhrwSy4WtA2uK/+P9E7aEpW5ereLyJ5KLA6OEZJDaPr+mjOpuLt0+l5j4DMn7yBmOPHXWbc6LTE3+jpp0GZPyOmwsDKZSRUegTtc2R2R6z+mdnGrhOYM80y08KVVWhdU/DHw41MK7ePo6q73Nz49y9Dg9fxA0t4ggEBPnTDBBQ25Ajuay8sa0M5eg9rDDRaywlKamYWraa8PigX+2YjhtUeQhmlCPdlxc9wECJ7/knPss5bI3ZoXQR3fYxjcXNnHEI6blqLRMCa3pLsx7lII+KPYMa2ZYl/am4P"

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }

## license version: 1.x

- do:
  xpack.license.post:
    acknowledge: true
    body: |
      [
        
      ]

## multiple licenses version: 1.x

- do:
  xpack.license.post:

- do:
  xpack.license.get: {}

- length: { license: 11 }

## multiple licenses version: 1.x

- do:
  xpack.license.post:
"Should install a feature type license":

```yaml
# VERSION_NO_FEATURE_TYPE license version
- do:
  xpack.license.post:
    acknowledge: true
    body: |
- match: { license_status: "valid" }
- do:
  xpack.license.get: {}
- length: { license: 11 }
```

"Cannot start basic":

```yaml
- do:
  catch: bad_request
  xpack.license.post:
    acknowledge: true
    body: |
```
match: { error.root_cause.0.reason: 'Installing basic licenses is no longer allowed. Use the POST /_xpack/license/start_basic API to install a basic license that does not expire.' }

"Should fail gracefully when body content is not provided":

do:
  catch: bad_request
  xpack.license.post:
    acknowledge: true

match: { error.root_cause.0.reason: 'The license must be provided in the request body' }

"Current license is trial means not eligible to start trial":

do:
  xpack.license.get_trial_status: {};

match: { eligible_to_start_trial: false }

do:
  xpack.license.post_start_basic:
    acknowledge: true

match: { basic_was_started: true }

do:
  xpack.license.get_trial_status: {};

match: { eligible_to_start_trial: false }

do:
  xpack.license.post_start_trial:
    acknowledge: true

match: { trial_was_started: false }

match: { error_message: "Operation failed: Trial was already activated." }

"Trial license cannot be basic":

do:
  catch: bad_request
xpack.license.post_start_trial:
   type: "basic"
   acknowledge: true

---
"Can start basic license if do not already have basic":
- do:
   xpack.license.get_basic_status: {}

- match: { eligible_to_start_basic: true }

- do:
   xpack.license.post_start_basic:
      acknowledge: true

- match: { basic_was_started: true }
- match: { acknowledged: true }

- do:
   xpack.license.get_basic_status: {}

- match: { eligible_to_start_basic: false }

- do:
   catch: forbidden
   xpack.license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: true }
- match: { error_message: "Operation failed: Current license is basic." }

---
"Must acknowledge to start basic":
- do:
   xpack.license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: false }
- match: { error_message: "Operation failed: Needs acknowledgement." }

/*
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;

---
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetTrialStatusAction extends TransportMasterNodeReadAction<GetTrialStatusRequest,
GetTrialStatusResponse> {

@Inject
public TransportGetTrialStatusAction(Settings settings, TransportService transportService, ClusterService clusterService,
        ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, GetTrialStatusAction.NAME, transportService, clusterService, threadPool, actionFilters,
        indexNameExpressionResolver, GetTrialStatusRequest::new);
    }

@Override
protected String executor() {
        return ThreadPool.Names.SAME;
    }

@Override
protected GetTrialStatusResponse newResponse() {
        return new GetTrialStatusResponse();
    }

@Override
protected void masterOperation(GetTrialStatusRequest request, ClusterState state,
        ActionListener<GetTrialStatusResponse> listener) throws Exception {
        LicensesMetaData licensesMetaData = state.metaData().custom(LicensesMetaData.TYPE);
        listener.onResponse(new GetTrialStatusResponse(licensesMetaData == null ||
                licensesMetaData.isEligibleForTrial()));
    }

@Override
protected ClusterBlockException checkBlock(GetTrialStatusRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
    }
}

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/**
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 */
package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.common.Strings;

import java.util.Arrays;
import java.util.Collections;
import java.util.Set;

/**
 * Represents the definition of a `{@link FieldPermissions}`. Field permissions are defined as a
 * collections of grant and exclude definitions where the exclude definition must be a subset of
 * the grant definition.
 */
public final class FieldPermissionsDefinition {

    private final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups;

    public FieldPermissionsDefinition(String[] grant, String[] exclude) {
        this(Collections.singleton(new FieldGrantExcludeGroup(grant, exclude)));
    }

    public FieldPermissionsDefinition(Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups) {
        this.fieldGrantExcludeGroups = Collections.unmodifiableSet(fieldGrantExcludeGroups);
    }

    public Set<FieldGrantExcludeGroup> getFieldGrantExcludeGroups() {
        return fieldGrantExcludeGroups;
    }

    @Override
    public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;
        FieldPermissionsDefinition that = (FieldPermissionsDefinition) o;

        return fieldGrantExcludeGroups != null ?
            fieldGrantExcludeGroups.equals(that.fieldGrantExcludeGroups) :
            that.fieldGrantExcludeGroups == null;
    }

    @Override
}

---

Open Source Used In MSX Platform Services 3.8.01302
public int hashCode() {
    return fieldGrantExcludeGroups != null ? fieldGrantExcludeGroups.hashCode() : 0;
}

public static final class FieldGrantExcludeGroup {
    private final String[] grantedFields;
    private final String[] excludedFields;

    public FieldGrantExcludeGroup(String[] grantedFields, String[] excludedFields) {
        this.grantedFields = grantedFields;
        this.excludedFields = excludedFields;
    }

    public String[] getGrantedFields() {
        return grantedFields;
    }

    public String[] getExcludedFields() {
        return excludedFields;
    }

    @Override
    public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;
        FieldGrantExcludeGroup that = (FieldGrantExcludeGroup) o;

        if (!Arrays.equals(grantedFields, that.grantedFields)) return false;
        return Arrays.equals(excludedFields, that.excludedFields);
    }

    @Override
    public int hashCode() {
        int result = Arrays.hashCode(grantedFields);
        result = 31 * result + Arrays.hashCode(excludedFields);
        return result;
    }

    @Override
    public String toString() {
        return getClass().getSimpleName()
            + "[grant=" + Strings.arrayToCommaDelimitedString(grantedFields)
            + "; exclude=" + Strings.arrayToCommaDelimitedString(excludedFields)
            + "]";
    }
}
import org.elasticsearch.gradle.test.ClusterConfiguration
import org.elasticsearch.gradle.test.ClusterFormationTasks
import org.elasticsearch.gradle.test.NodeInfo

apply plugin: 'elasticsearch.standalone-test'
apply plugin: 'elasticsearch.standalone-rest-test'
apply plugin: 'elasticsearch.rest-test'

dependencies {
    testCompile project(path: ':modules:tribe', configuration: 'runtime')
    testCompile project(path: xpackProject('plugin').path, configuration: 'testArtifacts')
    // TODO: remove all these test deps, this is completely bogus, guava is being force upgraded
    testCompile project(path: xpackModule('deprecation'), configuration: 'runtime')
    testCompile project(path: xpackModule('graph'), configuration: 'runtime')
    testCompile project(path: xpackModule('logstash'), configuration: 'runtime')
    testCompile project(path: xpackModule('ml'), configuration: 'runtime')
    testCompile project(path: xpackModule('monitoring'), configuration: 'runtime')
    testCompile project(path: xpackModule('security'), configuration: 'runtime')
    testCompile project(path: xpackModule('upgrade'), configuration: 'runtime')
    testCompile project(path: xpackModule('watcher'), configuration: 'runtime')
    testCompile project(path: xpackModule('core'), configuration: 'testArtifacts')
    testCompile project(path: xpackModule('monitoring'), configuration: 'testArtifacts')
}

compileTestJava.options.compilerArgs << "-Xlint:-rawtypes,-unchecked"

String licensePath = xpackProject('license-tools').projectDir.toPath().resolve('src/test/resources').toString()

sourceSets { test 
    resources {
        srcDirs += [licensePath]}}
project.forbiddenPatterns {
    exclude '**/*.key'
}

task setupClusterOne {}  
ClusterConfiguration cluster1Config = new ClusterConfiguration(project)
cluster1Config.clusterName = 'cluster1'
cluster1Config.setting('node.name', 'cluster1-node1')
// x-pack
cluster1Config.setting('xpack.monitoring.enabled', false)
cluster1Config.setting('xpack.security.enabled', false)
cluster1Config.setting('xpack.watcher.enabled', false)
cluster1Config.setting('xpack.graph.enabled', false)
cluster1Config.setting('xpack.ml.enabled', false)

List<NodeInfo> cluster1Nodes = ClusterFormationTasks.setup(project, 'clusterOne', setupClusterOne, 
cluster1Config)

task setupClusterTwo {}  
ClusterConfiguration cluster2Config = new ClusterConfiguration(project)
cluster2Config.clusterName = 'cluster2'
cluster2Config.setting('node.name', 'cluster2-node1')
// x-pack
cluster2Config.setting('xpack.monitoring.enabled', false)
cluster2Config.setting('xpack.security.enabled', false)
cluster2Config.setting('xpack.watcher.enabled', false)
cluster2Config.setting('xpack.graph.enabled', false)
cluster2Config.setting('xpack.ml.enabled', false)

List<NodeInfo> cluster2Nodes = ClusterFormationTasks.setup(project, 'clusterTwo', setupClusterTwo, 
cluster2Config)

integTestCluster {
    dependsOn setupClusterOne, setupClusterTwo
    setting 'node.name', 'tribe-node'
    setting 'tribe.on_conflict', 'prefer_cluster1'
    setting 'tribe.cluster1.cluster.name', 'cluster1'
    setting 'tribe.cluster1.discovery.zen.ping.unicast.hosts', "${-> cluster1Nodes.get(0).transportUri()}
    setting 'tribe.cluster1.http.enabled', 'true'
    setting 'tribe.cluster1.http.port', '0'
    setting 'tribe.cluster1.transport.tcp.port', '0'
    setting 'tribe.cluster1.xpackmonitoringenabled', false
    setting 'tribe.cluster1.xpackmonitoringenabled', false
setting 'tribe.cluster1.xpack.security.enabled', false
setting 'tribe.cluster1.xpack.watcher.enabled', false
setting 'tribe.cluster1.xpack.graph.enabled', false
setting 'tribe.cluster1.xpack.ml.enabled', false
setting 'tribe.cluster1.xpack.license.self_generated.type', 'trial'
setting 'tribe.cluster2.cluster.name', 'cluster2'
setting 'tribe.cluster2.discovery.zen.ping.unicast.hosts', ""{-> clusterNodes.get(0).transportUri()}""
setting 'tribe.cluster2.http.enabled', 'true'
setting 'tribe.cluster1.http.port', '0'
setting 'tribe.cluster1.transport.tcp.port', '0'
setting 'tribe.cluster2.xpack.monitoring.enabled', false
setting 'tribe.cluster2.xpack.monitoring.enabled', false
setting 'tribe.cluster2.xpack.security.enabled', false
setting 'tribe.cluster2.xpack.watcher.enabled', false
setting 'tribe.cluster2.xpack.graph.enabled', false
setting 'tribe.cluster2.xpack.ml.enabled', false
setting 'tribe.cluster2.xpack.license.self_generated.type', 'trial'

// x-pack
setting 'xpack.monitoring.enabled', false
setting 'xpack.monitoring.enabled', false
setting 'xpack.security.enabled', false
setting 'xpack.watcher.enabled', false
setting 'xpack.graph.enabled', false
setting 'xpack.ml.enabled', false
setting 'xpack.license.self_generated.type', 'trial'

waitCondition = { node, ant ->
File tmpFile = new File(node.cwd, 'wait.success')
// 5 nodes: tribe + clusterOne (1 node + tribe internal node) + clusterTwo (1 node + tribe internal node)
dest: tmpFile.toString(),
ignoreerrors: true,
retries: 10)
return tmpFile.exists()
}
}

integTestRunner {
/*
 * We have to disable setting the number of available processors as tests in the same JVM randomize processors and
 * will step on each
 * other if we allow them to set the number of available processors as it’s set-once in Netty.
 */
   systemProperty 'es.set.netty.runtime.available.processors', 'false'
   systemProperty 'tests.cluster', "{-> cluster1Nodes.get(0).transportUri()}
   systemProperty 'tests.cluster2', "{-> cluster2Nodes.get(0).transportUri()}
   systemProperty 'tests.tribe', "{-> integTest.nodes.get(0).transportUri()}
   finalizedBy 'clusterOne#stop'
   finalizedBy 'clusterTwo#stop'
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.AckedClusterStateUpdateTask;
import org.elasticsearch.cluster.ClusterChangedEvent;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateListener;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.component.AbstractLifecycleComponent;
import org.elasticsearch.common.component.Lifecycle;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.discovery.DiscoveryModule;
import org.elasticsearch.env.Environment;
import org.elasticsearch.gateway.GatewayService;
import org.elasticsearch.protocol.xpack.XPackInfoResponse;
import org.elasticsearch.protocol.xpack.xpack_license.DeleteLicenseRequest;
import org.elasticsearch.protocol.xpack.xpack_license.LicensesStatus;
import org.elasticsearch.protocol.xpack.xpack_license.PutLicenseResponse;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;

import java.time.Clock;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.atomic.AtomicReference;

/**
 * Service responsible for managing [link LicensesMetaData].
 * On the master node, the service handles updating the cluster state when a new license is registered.
 * It also listens on all nodes for cluster state updates, and updates [link XPackLicenseState] when
 * the license changes are detected in the cluster state.
 */
public class LicenseService extends AbstractLifecycleComponent implements ClusterStateListener,
  SchedulerEngine.Listener {

  private final ClusterService clusterService;
  private final XPackLicenseState licenseState;
  private final AtomicReference<License> currentLicense = new AtomicReference<>();

  // pkg private for tests
  static final TimeValue NON_BASIC_SELF_GENERATED_LICENSE_DURATION =
    TimeValue.timeValueHours(30 * 24);

  static final Set<String> VALID_TRIAL_TYPES = new HashSet<>(Arrays.asList("trial", "platinum", "gold"));

  /**
   * Duration of grace period after a license has expired
   */
  static final TimeValue GRACE_PERIOD_DURATION = days(7);

  public static final long BASIC_SELF_GENERATED_LICENSE_ExPIRATION_MILLIS =
    XPackInfoResponse.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;

private SchedulerEngine scheduler;
private final Clock clock;

/**
 * File watcher for operation mode changes
 */
private final OperationModeFileWatcher operationModeFileWatcher;

/**
 * Callbacks to notify relative to license expiry
 */
private List<ExpirationCallback> expirationCallbacks = new ArrayList<>();

/**
 * Max number of nodes licensed by generated trial license
 */
static final int SELF_GENERATED_LICENSE_MAX_NODES = 1000;

public static final String LICENSE_JOB = "licenseJob";

private static final FormatDateTimeFormatter DATE_FORMATTER = Joda.forPattern("EEEE, MMMM dd, yyyy", Locale.ROOT);

private static final String ACKNOWLEDGEMENT_HEADER = "This license update requires acknowledgement. To acknowledge the license, " +
"please read the following messages and update the license again, this time with the \"acknowledge=true\" parameter:";

public LicenseService(Settings settings, ClusterService clusterService, Clock clock, Environment env,
ResourceWatcherService resourceWatcherService, XPackLicenseState licenseState) {
    super(settings);
    this.clusterService = clusterService;
    this.clock = clock;
    this.scheduler = new SchedulerEngine(settings, clock);
    this.licenseState = licenseState;
    this.operationModeFileWatcher = new OperationModeFileWatcher(resourceWatcherService,
        XPackPlugin.resolveConfigFile(env, "license_mode"), logger,
        () -> updateLicenseState(getLicensesMetaData()));
    this.scheduler.register(this);
    populateExpirationCallbacks();
}

private void logExpirationWarning(long expirationMillis, boolean expired) {
    String expiredMsg = expired ? "expired" : "will expire";
    String general = LoggerMessageFormat.format(null, "License [{}] on [{}].
" +
"# If you have a new license, please update it. Otherwise, please reach out to
" +
"# your support contact.\n" +
"# ", expiredMsg, DATE_FORMATTER.printer().print(expirationMillis));

}
if (expired) {
    general = general.toUpperCase(Locale.ROOT);
}
StringBuilder builder = new StringBuilder(general);
builder.append(System.lineSeparator());
if (expired) {
    builder.append("# COMMERCIAL PLUGINS OPERATING WITH REDUCED FUNCTIONALITY");
} else {
    builder.append("# Commercial plugins operate with reduced functionality on license expiration:"");
}
XPackLicenseState.EXPIRATION_MESSAGES.forEach((feature, messages) -> {
    if (messages.length > 0) {
        builder.append(System.lineSeparator());
        builder.append("# - ");
        builder.append(feature);
        for (String message : messages) {
            builder.append(System.lineSeparator());
            builder.append("#  - ");
            builder.append(message);
        }
    }
});
logger.warn("{}", builder);
}

private void populateExpirationCallbacks() {
    expirationCallbacks.add(new ExpirationCallback.Pre(days(7), days(25), days(1)) {
        @Override
        public void on(License license) {
            logExpirationWarning(license.expiryDate(), false);
        }
    });
    expirationCallbacks.add(new ExpirationCallback.Pre(days(0), days(7), TimeValue.timeValueMinutes(10)) {
        @Override
        public void on(License license) {
            logExpirationWarning(license.expiryDate(), false);
        }
    });
    expirationCallbacks.add(new ExpirationCallback.Post(days(0), null, TimeValue.timeValueMinutes(10)) {
        @Override
        public void on(License license) {
            // logged when grace period begins
            logExpirationWarning(license.expiryDate(), true);
        }
    });
}/**
* Registers new license in the cluster
* Master only operation. Installs a new license on the master provided it is VALID
* /

```java
public void registerLicense(final PutLicenseRequest request, final ActionListener<PutLicenseResponse> listener)
{
    final License newLicense = request.license();
    final long now = clock.millis();
    if (!LicenseVerifier.verifyLicense(newLicense) || newLicense.issueDate() > now || newLicense.startDate() >
            now) {
        listener.onResponse(new PutLicenseResponse(true, LicensesStatus.INVALID));
    } else if (newLicense.type().equals("basic")) {
        listener.onFailure(new IllegalArgumentException("Registering basic licenses is not allowed.");
    } else if (newLicense.expiryDate() < now) {
        listener.onResponse(new PutLicenseResponse(true, LicensesStatus.EXPIRED));
    } else {
        if (!request.acknowledged()) {
            // TODO: ack messages should be generated on the master, since another node's cluster state may be behind...
            final License currentLicense = getLicense();
            if (currentLicense != null) {
                Map<String, String[]> acknowledgeMessages = getAckMessages(newLicense, currentLicense);
                if (acknowledgeMessages.isEmpty() == false) {
                    // needs acknowledgement
                    listener.onResponse(new PutLicenseResponse(false, LicensesStatus.VALID,
                            ACKNOWLEDGEMENT_HEADER,
                            acknowledgeMessages));
                    return;
                }
            }
        }
    }
}
```

if (XPackSettings.SECURITY_ENABLED.get(settings)) {
    // TODO we should really validate that all nodes have xpack installed and are consistently configured but this
    // should happen on a different level and not in this code
    if (newLicense.isProductionLicense() && XPackSettings.TRANSPORT_SSL_ENABLED.get(settings) == false
            && isProductionMode(settings, clusterService.localNode())) {
        // security is on but TLS is not configured we gonna fail the entire request and throw an exception
        throw new IllegalStateException("Cannot install a [" + newLicense.operationMode() + "] license unless TLS is configured or security is disabled");
    } else if (XPackSettings.FIPS_MODE_ENABLED.get(settings) && newLicense.operationMode() != License.OperationMode.PLATINUM
            && newLicense.operationMode() != License.OperationMode.TRIAL) {
        throw new IllegalStateException("Cannot install a [" + newLicense.operationMode() + "] license unless FIPS mode is disabled");
    }
}
clusterService.submitStateUpdateTask("register license "+ newLicense.uid() + "]", new
AckedClusterStateUpdateTask<PutLicenseResponse>(request, listener) {
    @Override
    protected PutLicenseResponse newResponse(boolean acknowledged) {
        return new PutLicenseResponse(acknowledged, LicensesStatus.VALID);
    }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    MetaData currentMetadata = currentState.metaData();
    LicensesMetaData licensesMetaData = currentMetadata.custom(LicensesMetaData.TYPE);
    Version trialVersion = null;
    if (licensesMetaData != null) {
        trialVersion = licensesMetaData.getMostRecentTrialVersion();
    }
    MetaData.Builder mdBuilder = MetaData.builder(currentMetadata);
    mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(newLicense,
        trialVersion));
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

public static Map<String, String[]> getAckMessages(License newLicense, License currentLicense) {
    Map<String, String[]> acknowledgeMessages = new HashMap<>();
    if (!License.isAutoGeneratedLicense(currentLicense.signature()) // current license is not auto-generated
        && currentLicense.issueDate() > newLicense.issueDate()) { // and has a later issue date
        acknowledgeMessages.put("license", new String[]{
            "The new license is older than the currently installed license. Are you sure you want to override the current license?"});
    }
    XPackLicenseState.ACKNOWLEDGMENT_MESSAGES.forEach((feature, ackMessages) -> {
        String[] messages = ackMessages.apply(currentLicense.operationMode(), newLicense.operationMode());
        if (messages.length > 0) {
            acknowledgeMessages.put(feature, messages);
        }
    });
    return acknowledgeMessages;
}

private static TimeValue days(int days) {
    return TimeValue.timeValueHours(days * 24);
}
@Override
public void triggered(SchedulerEngine.Event event) {
    final LicensesMetaData licensesMetaData = getLicensesMetaData();
    if (licensesMetaData != null) {
        final License license = licensesMetaData.getLicense();
        if (event.getJobName().equals(LICENSE_JOB)) {
            updateLicenseState(license, licensesMetaData.getMostRecentTrialVersion());
        } else if (event.getJobName().startsWith(ExpirationCallback.EXPIRATION_JOB_PREFIX)) {
            expirationCallbacks.stream()
                .filter(expirationCallback -> expirationCallback.getId().equals(event.getJobName()))
                .forEach(expirationCallback -> expirationCallback.on(license));
        }
    }
}

/**
* Remove license from the cluster state metadata
*/
public void removeLicense(final DeleteLicenseRequest request, final ActionListener<ClusterStateUpdateResponse> listener) {
    clusterService.submitStateUpdateTask("delete license",
        new AckedClusterStateUpdateTask<ClusterStateUpdateResponse>(request, listener) {
            @Override
            protected ClusterStateUpdateResponse newResponse(boolean acknowledged) {
                return new ClusterStateUpdateResponse(acknowledged);
            }

            @Override
            public ClusterState execute(ClusterState currentState) throws Exception {
                MetaData metaData = currentState.metaData();
                final LicensesMetaData currentLicenses = metaData.custom(LicensesMetaData.TYPE);
                if (currentLicenses.getLicense() != LicensesMetaData.LICENSE_TOMBSTONE) {
                    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
                    LicensesMetaData newMetadata = new LicensesMetaData(LicensesMetaData.LICENSE_TOMBSTONE,
                        currentLicenses.getMostRecentTrialVersion());
                    mdBuilder.putCustom(LicensesMetaData.TYPE, newMetadata);
                    return ClusterState.builder(currentState).metaData(mdBuilder).build();
                } else {
                    return currentState;
                }
            }
        });
    }

    public License getLicense() {
        final License license = getLicense(clusterService.state().metaData());
        return license == LicensesMetaData.LICENSE_TOMBSTONE ? null : license;
    }
private LicensesMetaData getLicensesMetaData() {
    return this.clusterService.state().metaData().custom(LicensesMetaData.TYPE);
}

void startTrialLicense(PostStartTrialRequest request, final ActionListener<PostStartTrialResponse> listener) {
    if (VALID_TRIAL_TYPES.contains(request.getType()) == false) {
        throw new IllegalArgumentException("Cannot start trial of type \"" + request.getType() + ",\"");
    }
    StartTrialClusterTask task = new StartTrialClusterTask(logger, clusterService.getClusterName().value(), clock,
        request, listener);
    clusterService.submitStateUpdateTask("started trial license", task);
}

void startBasicLicense(PostStartBasicRequest request, final ActionListener<PostStartBasicResponse> listener) {
    StartBasicClusterTask task = new StartBasicClusterTask(logger, clusterService.getClusterName().value(),
        clock, request, listener);
    clusterService.submitStateUpdateTask("start basic license", task);
}

/**
 * Master-only operation to generate a one-time global self generated license.
 * The self generated license is only generated and stored if the current cluster state metadata
 * has no existing license. If the cluster currently has a basic license that has an expiration date,
 * a new basic license with no expiration date is generated.
 */
private void registerOrUpdateSelfGeneratedLicense() {
    clusterService.submitStateUpdateTask("maybe generate license for cluster",
        new StartupSelfGeneratedLicenseTask(settings, clock, clusterService));
}

@Override
protected void doStart() throws ElasticsearchException {
    clusterService.addListener(this);
    scheduler.start(Collections.emptyList());
    logger.debug("initializing license state");
    if (clusterService.lifecycleState() == Lifecycle.State.STARTED) {
        final ClusterState clusterState = clusterService.state();
        if (!clusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK) &&
            clusterState.nodes().getMasterNode() != null &&
            XPackPlugin.isReadyForXPackCustomMetadata(clusterState)) {
            final LicensesMetaData currentMetaData = clusterState.metaData().custom(LicensesMetaData.TYPE);
            boolean noLicense = currentMetaData == null || currentMetaData.getLicense() == null;
            if (clusterState.getNodes().isLocalNodeElectedMaster() &&
                XPackPlugin.isReadyForXPackCustomMetadata(clusterState)) {
                final LicensesMetaData currentMetaData = clusterState.metaData().custom(LicensesMetaData.TYPE);
                boolean noLicense = currentMetaData == null || currentMetaData.getLicense() == null;
                if (clusterState.getNodes().isLocalNodeElectedMaster() &&
(noLicense || LicenseUtils.licenseNeedsExtended(currentMetaData.getLicense()))) {
   // triggers a cluster changed event eventually notifying the current licensee
   registerOrUpdateSelfGeneratedLicense();
}
}
}
}

@Override
protected void doStop() throws ElasticsearchException {
   clusterService.removeListener(this);
   scheduler.stop();
   // clear current license
   currentLicense.set(null);
}

@Override
protected void doClose() throws ElasticsearchException {
}

/**
 * When there is no global block on {@link org.elasticsearch.gateway.GatewayService#STATE_NOT_RECOVERED_BLOCK}
 * notify licensees and issue auto-generated license if no license has been installed/issued yet.
 */
@Override
public void clusterChanged(ClusterChangedEvent event) {
   final ClusterState previousClusterState = event.previousState();
   final ClusterState currentClusterState = event.state();
   if (!currentClusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK)) {
      if (XPackPlugin.isReadyForXPackCustomMetadata(currentClusterState) == false) {
         logger.debug("cannot add license to cluster as the following nodes might not understand the license metadata: {}", () -> XPackPlugin.nodesNotReadyForXPackCustomMetadata(currentClusterState));
         return;
      }

      final LicensesMetaData prevLicensesMetaData = previousClusterState.getMetaData().custom(LicensesMetaData.TYPE);
      final LicensesMetaData currentLicensesMetaData = currentClusterState.getMetaData().custom(LicensesMetaData.TYPE);
      if (logger.isDebugEnabled()) {
         logger.debug("previous [{}]", prevLicensesMetaData);
         logger.debug("current [{}]", currentLicensesMetaData);
      }
      // notify all interested plugins
      if (previousClusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK) || prevLicensesMetaData == null) {

if (currentLicensesMetaData != null) {
    onUpdate(currentLicensesMetaData);
}
} else if (!prevLicensesMetaData.equals(currentLicensesMetaData)) {
    onUpdate(currentLicensesMetaData);
}

License currentLicense = null;
boolean noLicenseInPrevMetadata = prevLicensesMetaData == null || prevLicensesMetaData.getLicense() == null;
if (noLicenseInPrevMetadata == false) {
    currentLicense = prevLicensesMetaData.getLicense();
}
boolean noLicenseInCurrentMetadata = (currentLicensesMetaData == null ||
    currentLicensesMetaData.getLicense() == null);
if (noLicenseInCurrentMetadata == false) {
    currentLicense = currentLicensesMetaData.getLicense();
}

boolean noLicense = noLicenseInPrevMetadata && noLicenseInCurrentMetadata;
// auto-generate license if no licenses ever existed or if the current license is basic and
// needs extended or if the license signature needs to be updated. this will trigger a subsequent cluster changed event
if (currentClusterState.getNodes().isLocalNodeElectedMaster() &&
    (noLicense || LicenseUtils.licenseNeedsExtended(currentLicense) ||
    LicenseUtils.signatureNeedsUpdate(currentLicense, currentClusterState.nodes()))) {
    registerOrUpdateSelfGeneratedLicense();
}
} else if (logger.isDebugEnabled()) {
    logger.debug("skipped license notifications reason: [{}],
    GatewayService.STATE_NOT_RECOVERED_BLOCK);
}

private void updateLicenseState(LicensesMetaData licensesMetaData) {
    if (licensesMetaData != null) {
        updateLicenseState(getLicense(licensesMetaData), licensesMetaData.getMostRecentTrialVersion());
    }
}

protected void updateLicenseState(final License license, Version mostRecentTrialVersion) {
    if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
        // implies license has been explicitly deleted
        licenseState.update(License.OperationMode.MISSING, false, mostRecentTrialVersion);
        return;
    }
    if (license != null) {
        long time = clock.millis();
        // 
    }
}
boolean active;
if (license.expiryDate() == Basic_Self_Generated_License_Expiration_Millis) {
    active = true;
} else {
    // We subtract the grace period from the current time to avoid overflowing on an expiration
    // date that is near Long.MAX_VALUE
    active = time >= license.issueDate() && time - Grace_Period_Duration.getMillis() <
        license.expiryDate();
}
licenseState.update(license.operationMode(), active, mostRecentTrialVersion);

if (active) {
    if (time < license.expiryDate()) {
        logger.debug("license [{ }] - valid", license.uid());
    } else {
        logger.warn("license [{ }] - grace", license.uid());
    }
} else {
    logger.warn("license [{ }] - expired", license.uid());
}

/**
* Notifies registered licensees of license state change and/or new active license
* based on the license in <code>currentLicensesMetaData</code>.
* Additionally schedules license expiry notifications and event callbacks
* relative to the current license's expiry
*/
private void onUpdate(final LicensesMetaData currentLicensesMetaData) {
    final License license = getLicense(currentLicensesMetaData);
    // license can be null if the trial license is yet to be auto-generated
    // in this case, it is a no-op
    if (license != null) {
        final License previousLicense = currentLicense.get();
        if (license.equals(previousLicense) == false) {
            currentLicense.set(license);
            license.setOperationModeFileWatcher(operationModeFileWatcher);
            scheduler.add(new SchedulerEngine.Job(LICENSE_JOB, nextLicenseCheck(license)));
            for (ExpirationCallback expirationCallback : expirationCallbacks) {
                scheduler.add(new SchedulerEngine.Job(expirationCallback.getId(),
                        (startTime, now) ->
                        expirationCallback.nextScheduledTimeForExpiry(license.expiryDate(), startTime, now)));
            }
            if (previousLicense != null) {
                // remove operationModeFileWatcher to gc the old license object
                previousLicense.removeOperationModeFileWatcher();
            }
        }
    }
}
logger.info("license [{\}] mode [{\}] - valid", license.uid(),
    license.operationMode().name().toLowerCase(Locale.ROOT));
}
updateLicenseState(license, currentLicensesMetaData.getMostRecentTrialVersion());
}

// pkg private for tests
static SchedulerEngine.Schedule nextLicenseCheck(License license) {
    return (startTime, time) -> {
        if (time < license.issueDate()) {
            // when we encounter a license with a future issue date
            // which can happen with autogenerated license,
            // we want to schedule a notification on the license issue date
            // so the license is notified once it is valid
            // see https://github.com/elastic/x-plugins/issues/983
            return license.issueDate();
        } else if (time < license.expiryDate()) {
            return license.expiryDate();
        } else if (time < license.expiryDate() + GRACE_PERIOD_DURATION.getMillis()) {
            return license.expiryDate() + GRACE_PERIOD_DURATION.getMillis();
        }
        return -1; // license is expired, no need to check again
    };
}

public static License getLicense(final MetaData metaData) {
    final LicensesMetaData licensesMetaData = metaData.custom(LicensesMetaData.TYPE);
    return getLicense(licensesMetaData);
}

static License getLicense(final LicensesMetaData metaData) {
    if (metaData != null) {
        License license = metaData.getLicense();
        if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
            return license;
        } else if (license != null) {
            boolean autoGeneratedLicense = License.isAutoGeneratedLicense(license.signature());
            if ((autoGeneratedLicense && SelfGeneratedLicense.verify(license))
                || (!autoGeneratedLicense && LicenseVerifier.verifyLicense(license))) {
                return license;
            }
        }
    }
    return null;
}

private static boolean isProductionMode(Settings settings, DiscoveryNode localNode) {

}
final boolean singleNodeDisco = "single-node".equals(DiscoveryModule.DISCOVERY_TYPE_SETTING.get(settings));
    return singleNodeDisco == false && isBoundToLoopback(localNode) == false;
}

private static boolean isBoundToLoopback(DiscoveryNode localNode) {
    return localNode.getAddress().address().getAddress().isLoopbackAddress();
}

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

/*
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*/
package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.logging.log4j.LogManager;
import org.apache.logging.log4j.Logger;
import org.apache.lucene.util.automaton.Automaton;
import org.apache.lucene.util.automaton.Operations;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.util.set.Sets;
import org.elasticsearch.xpack.core.security.privilege.ApplicationPrivilege;
import org.elasticsearch.xpack.core.security.support.Automatons;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.function.Predicate;
import java.util.stream.Collectors;

/**
 * A permission that is based on privileges for application (non elasticsearch) capabilities
 */
public final class ApplicationPermission {

    public static final ApplicationPermission NONE = new ApplicationPermission(Collections.emptyList());

    private final Logger logger;
    private final List<PermissionEntry> permissions;

    /**
     * @param privilegesAndResources A list of (privilege, resources). Each element in the { @link List} is a { @link Tuple} containing
     * a single { @link ApplicationPrivilege} and the { @link Set} of resources to which that privilege is
     * applied. The resources are treated as a wildcard { @link Automatons#pattern}.
     */
    ApplicationPermission(List<Tuple<ApplicationPrivilege, Set<String>>> privilegesAndResources) {
        this.logger = LogManager.getLogger(getClass());
        Map<ApplicationPrivilege, PermissionEntry> permissionsByPrivilege = new HashMap<>();
        privilegesAndResources.forEach(tup -> permissionsByPrivilege.compute(tup.v1(), (appPriv, existing) -> {
            final Set<String> resourceNames = tup.v2();
            final Automaton patterns = Automatons.patterns(resourceNames);
            if (existing == null) {
                return new PermissionEntry(appPriv, resourceNames, patterns);
            } else {
                return new PermissionEntry(appPriv, Sets.union(existing.resourceNames, resourceNames),
                        Automatons.unionAndMinimize(Arrays.asList(existing.resourceAutomaton, patterns)));
            }
        }));
        this.permissions = Collections.unmodifiableList(new ArrayList<>(permissionsByPrivilege.values()));
    }

    /**
     * Determines whether this permission grants the specified privilege on the given resource.
     * <p>
     * An { @link ApplicationPermission} consists of a sequence of permission entries, where each entry contains a single
     * { @link ApplicationPrivilege} and one or more resource patterns.
     * </p>
     */
}
public boolean grants(ApplicationPrivilege other, String resource) {
    Automaton resourceAutomaton = Automatons.patterns(resource);
    final boolean matched = permissions.stream().anyMatch(e -> e.grants(other, resourceAutomaton));
    logger.trace("Permission [{}] {} grant [{} , {}]", this, matched ? "does" : "does not", other, resource);
    return matched;
}

@Override
public String toString() {
    return getClass().getSimpleName() + "{privileges=" + permissions + "}";
}

public Set<String> getApplicationNames() {
    return permissions.stream()
        .map(e -> e.privilege.getApplication())
        .collect(Collectors.toSet());
}

public Set<ApplicationPrivilege> getPrivileges(String application) {
    return permissions.stream()
        .filter(e -> application.equals(e.privilege.getApplication()))
        .map(e -> e.privilege)
        .collect(Collectors.toSet());
}

/**
 * Returns a set of resource patterns that are permitted for the provided privilege.
 * The returned set may include patterns that overlap (e.g. "object/*" and "object/1") and may
 * also include patterns that are defined again a more permissive privilege.
 * e.g. If a permission grants
public Set<String> getResourcePatterns(ApplicationPrivilege privilege) {
    return permissions.stream()
        .filter(e -> e.matchesPrivilege(privilege))
        .map(e -> e.resourceNames)
        .flatMap(Set::stream)
        .collect(Collectors.toSet());
}

private static class PermissionEntry {
    private final ApplicationPrivilege privilege;
    private final Predicate<String> application;
    private final Set<String> resourceNames;
    private final Automaton resourceAutomaton;

    private PermissionEntry(ApplicationPrivilege privilege, Set<String> resourceNames, Automaton resourceAutomaton) {
        this.privilege = privilege;
        this.application = Automatons.predicate(privilege.getApplication());
        this.resourceNames = resourceNames;
        this.resourceAutomaton = resourceAutomaton;
    }

    private boolean grants(ApplicationPrivilege other, Automaton resource) {
        return matchesPrivilege(other) && Operations.subsetOf(resource, this.resourceAutomaton);
    }

    private boolean matchesPrivilege(ApplicationPrivilege other) {
        if (this.privilege.equals(other)) {
            return true;
        }
        if (this.application.test(other.getApplication()) == false) {
            return false;
        }
        if (Operations.isTotal(privilege.getAutomaton())) {
            return true;
        }
        return Operations.isEmpty(privilege.getAutomaton()) == false
                && Operations.isEmpty(other.getAutomaton()) == false
                && Operations.subsetOf(other.getAutomaton(), privilege.getAutomaton());
    }
}
@Override
public String toString() {
    return privilege.toString() + ":" + resourceNames;
}
}
}

This package is free to use under the Elastic license. It contains open source and free commercial features and access to paid commercial features. See the https://www.elastic.co/subscriptions[Subscriptions] page for information about Elastic license levels.

```json
"xpack.license.get": {
    "methods": ["GET"],
    "url": {
        "path": "/_xpack/license",
        "paths": ["/_xpack/license"],
        "parts": {},
        "params": {
            "local": {
                "type": "boolean",
                "description": "Return local information, do not retrieve the state from master node (default: false)"
            }
        }
    }
},
"body": null
}
/*
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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
```
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.POST;

public class RestPostStartBasicLicense extends XPackRestHandler {

    RestPostStartBasicLicense(Settings settings, RestController controller) {
        super(settings);
        controller.registerHandler(POST, URI_BASE + "/license/start_basic", this);
    }

    @Override
    protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
        PostStartBasicRequest startBasicRequest = new PostStartBasicRequest();
        startBasicRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
        startBasicRequest.timeout(request.paramAsTime("timeout", startBasicRequest.timeout()));
        startBasicRequest.masterNodeTimeout(request.paramAsTime("master_timeout", startBasicRequest.masterNodeTimeout()));
        return channel -> client.licensing().postStartBasic(startBasicRequest, new RestBuilderListener<PostStartBasicResponse>(channel) {
            @Override
            public RestResponse buildResponse(PostStartBasicResponse response, XContentBuilder builder) throws Exception {
                PostStartBasicResponse.Status status = response.getStatus();
                response.toXContent(builder, ToXContent.EMPTY_PARAMS);
                return new BytesRestResponse(status.getRestStatus(), builder);
            }
        });
    }

    @Override
    public String getName() {
        return "xpack_start_basic_action";
    }

    }

    @Override
    public String getName() {
        return "xpack_start_basic_action";
    }

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The build produces two sets of binaries - one set that falls under the Elastic License and another set that falls under Apache License Version 2.0. The binaries that contain `-oss` in the artifact name are licensed under the Apache License Version 2.0.

```json
{  "xpack.license.post_start_trial": {    "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html",    "methods": ["POST"],    "url": {      "path": "/_xpack/license/start_trial",      "paths": ["/_xpack/license/start_trial"],      "params": {        "type": {          "type": "string",          "description": "The type of trial license to generate (default: \"trial\")"        },        "acknowledge": {          "type": "boolean",          "description": "whether the user has acknowledged acknowledge messages (default: false)"        }      }    }  }
```
public final class IndicesPermission implements Iterable<IndicesPermission.Group> {
    public static final IndicesPermission NONE = new IndicesPermission();
    public final class Group {
        private final ArrayList<String> actions = new ArrayList<>();
        private final List<IndexPrivilege> privileges = new ArrayList<>();
        private final List<AliasOrIndex> indices = new ArrayList<>();

        public Group addAction(String action) {
            actions.add(action);
            return this;
        }

        public Group addPrivilege(IndexPrivilege privilege) {
            privileges.add(privilege);
            return this;
        }

        public Group addIndex(AliasOrIndex index) {
            indices.add(index);
            return this;
        }
    }
}

import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;
import java.util.SortedMap;
import java.util.concurrent.ConcurrentHashMap;
import java.util.function.Function;
import java.util.function.Predicate;
import static java.util.Collections.unmodifiableMap;
import static java.util.Collections.unmodifiableSet;

/**
 * A permission that is based on privileges for index related actions executed
 * on specific indices
 */
public final class IndicesPermission implements Iterable<IndicesPermission.Group> {
    public static final IndicesPermission NONE = new IndicesPermission();

    public final class Group {
        private final ArrayList<String> actions = new ArrayList<>();
        private final List<IndexPrivilege> privileges = new ArrayList<>();
        private final List<AliasOrIndex> indices = new ArrayList<>();

        public Group addAction(String action) {
            actions.add(action);
            return this;
        }

        public Group addPrivilege(IndexPrivilege privilege) {
            privileges.add(privilege);
            return this;
        }

        public Group addIndex(AliasOrIndex index) {
            indices.add(index);
            return this;
        }
    }
}

import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;
import java.util.SortedMap;
import java.util.concurrent.ConcurrentHashMap;
import java.util.function.Function;
import java.util.function.Predicate;
import static java.util.Collections.unmodifiableMap;
import static java.util.Collections.unmodifiableSet;

/**
 * A permission that is based on privileges for index related actions executed
 * on specific indices
 */
public final class IndicesPermission implements Iterable<IndicesPermission.Group> {
    public static final IndicesPermission NONE = new IndicesPermission();

    public final class Group {
        private final ArrayList<String> actions = new ArrayList<>();
        private final List<IndexPrivilege> privileges = new ArrayList<>();
        private final List<AliasOrIndex> indices = new ArrayList<>();

        public Group addAction(String action) {
            actions.add(action);
            return this;
        }

        public Group addPrivilege(IndexPrivilege privilege) {
            privileges.add(privilege);
            return this;
        }

        public Group addIndex(AliasOrIndex index) {
            indices.add(index);
            return this;
        }
    }
}

import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;
import java.util.SortedMap;
import java.util.concurrent.ConcurrentHashMap;
import java.util.function.Function;
import java.util.function.Predicate;
import static java.util.Collections.unmodifiableMap;
import static java.util.Collections.unmodifiableSet;

/**
 * A permission that is based on privileges for index related actions executed
 * on specific indices
 */
public final class IndicesPermission implements Iterable<IndicesPermission.Group> {
    public static final IndicesPermission NONE = new IndicesPermission();

    public final class Group {
        private final ArrayList<String> actions = new ArrayList<>();
        private final List<IndexPrivilege> privileges = new ArrayList<>();
        private final List<AliasOrIndex> indices = new ArrayList<>();

        public Group addAction(String action) {
            actions.add(action);
            return this;
        }

        public Group addPrivilege(IndexPrivilege privilege) {
            privileges.add(privilege);
            return this;
        }

        public Group addIndex(AliasOrIndex index) {
            indices.add(index);
            return this;
        }
    }
}

import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;
import java.util.SortedMap;
import java.util.concurrent.ConcurrentHashMap;
import java.util.function.Function;
import java.util.function.Predicate;
import static java.util.Collections.unmodifiableMap;
import static java.util.Collections.unmodifiableSet;

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        public Group addAction(String action) {
            actions.add(action);
            return this;
        }

        public Group addPrivilege(IndexPrivilege privilege) {
            privileges.add(privilege);
            return this;
        }

        public Group addIndex(AliasOrIndex index) {
            indices.add(index);
            return this;
        }
    }
}
private final Function<String, Predicate<String>> loadingFunction;

private final ConcurrentHashMap<String, Predicate<String>> allowedIndicesMatchersForAction = new ConcurrentHashMap<>();

private final Group[] groups;

public IndicesPermission(Group... groups) {
    this.groups = groups;
    loadingFunction = (action) -> {
        List<String> indices = new ArrayList<>();
        for (Group group : groups) {
            if (group.actionMatcher.test(action)) {
                indices.addAll(Arrays.asList(group.indices));
            }
        }
        return indexMatcher(indices);
    };
}

static Predicate<String> indexMatcher(List<String> indices) {
    try {
        return Automatons.predicate(indices);
    } catch (TooComplexToDeterminizeException e) {
        Loggers.getLogger(IndicesPermission.class).debug("Index pattern automaton [{}] is too complex", indices);
        String description = Strings.collectionToCommaDelimitedString(indices);
        if (description.length() > 80) {
            description = Strings.cleanTruncate(description, 80) + "...";
        }
        throw new ElasticsearchSecurityException("The set of permitted index patterns [{}] is too complex to evaluate", e, description);
    }
}

@Override
public Iterator<Group> iterator() {
    return Arrays.asList(groups).iterator();
}

public Group[] groups() {
    return groups;
}

/**
 * @return A predicate that will match all the indices that this permission
 * has the privilege for executing the given action on.
 */
public Predicate<String> allowedIndicesMatcher(String action) {
    return allowedIndicesMatchersForAction.computeIfAbsent(action, loadingFunction);
}

/**
 * Checks if the permission matches the provided action, without looking at indices.
 * To be used in very specific cases where indices actions need to be authorized regardless of their indices.
 * The usecase for this is composite actions that are initially only authorized based on the action name (indices are not
 * checked on the coordinating node), and properly authorized later at the shard level checking their indices as well.
 */
public boolean check(String action) {
    for (Group group : groups) {
        if (group.check(action)) {
            return true;
        }
    }
    return false;
}

public Automaton allowedActionsMatcher(String index) {
    List<Automaton> automatonList = new ArrayList<>();
    for (Group group : groups) {
        if (group.indexNameMatcher.test(index)) {
            automatonList.add(group.privilege.getAutomaton());
        }
    }
    return automatonList.isEmpty() ? Automatons.EMPTY : Automatons.unionAndMinimize(automatonList);
}

/**
 * Authorizes the provided action against the provided indices, given the current cluster metadata
 */
public Map<String, IndicesAccessControl.IndexAccessControl> authorize(String action, Set<String> requestedIndicesOrAliases,
    MetaData metaData, FieldPermissionsCache fieldPermissionsCache) {
    // now... every index that is associated with the request, must be granted
    // by at least one indices permission group
    SortedMap<String, AliasOrIndex> allAliasesAndIndices = metaData.getAliasAndIndexLookup();
    Map<String, Set<FieldPermissions>> fieldPermissionsByIndex = new HashMap<>();
    Map<String, DocumentLevelPermissions> roleQueriesByIndex = new HashMap<>();
    Map<String, Boolean> grantedBuilder = new HashMap<>();
    for (String indexOrAlias : requestedIndicesOrAliases) {
        boolean granted = false;
        Set<String> concreteIndices = new HashSet<>();
AliasOrIndex aliasOrIndex = allAliasesAndIndices.get(indexOrAlias);
if (aliasOrIndex != null) {
    for (IndexMetaData indexMetaData : aliasOrIndex.getIndices()) {
        concreteIndices.add(indexMetaData.getIndex().getName());
    }
}

for (Group group : groups) {
    if (group.check(action, indexOrAlias)) {
        granted = true;
        for (String index : concreteIndices) {
            Set<FieldPermissions> fieldPermissions = fieldPermissionsByIndex.computeIfAbsent(index, (k) ->
                    new HashSet<>());
            fieldPermissionsByIndex.put(indexOrAlias, fieldPermissions);
            fieldPermissions.add(group.getFieldPermissions());
            DocumentLevelPermissions permissions =
                    roleQueriesByIndex.computeIfAbsent(index, (k) -> new DocumentLevelPermissions());
            roleQueriesByIndex.putIfAbsent(indexOrAlias, permissions);
            if (group.hasQuery()) {
                permissions.addAll(group.getQuery());
            } else {
                // if more than one permission matches for a concrete index here and if
                // a single permission doesn't have a role query then DLS will not be
                // applied even when other permissions do have a role query
                permissions.setAllowAll(true);
            }
        }
    }
}

if (concreteIndices.isEmpty()) {
    grantedBuilder.put(indexOrAlias, granted);
} else {
    grantedBuilder.put(indexOrAlias, granted);
    for (String concreteIndex : concreteIndices) {
        grantedBuilder.put(concreteIndex, granted);
    }
}

Map<String, IndicesAccessControl.IndexAccessControl> indexPermissions = new HashMap<>();
for (Map.Entry<String, Boolean> entry : grantedBuilder.entrySet()) {
    String index = entry.getKey();
    DocumentLevelPermissions permissions = roleQueriesByIndex.get(index);
    final Set<BytesReference> roleQueries;
    if (permissions != null && permissions.isAllowAll() == false) {
        roleQueries = unmodifiableSet(permissions.queries);
    } else {

    roleQueries = null;

    final FieldPermissions fieldPermissions;
    final Set<FieldPermissions> indexFieldPermissions = fieldPermissionsByIndex.get(index);
    if (indexFieldPermissions != null && indexFieldPermissions.isEmpty() == false) {
        fieldPermissions = indexFieldPermissions.size() == 1 ? indexFieldPermissions.iterator().next() :
        fieldPermissionsCache.getFieldPermissions(indexFieldPermissions);
    } else {
        fieldPermissions = FieldPermissions.DEFAULT;
    }

    indexPermissions.put(index, new IndicesAccessControl.IndexAccessControl(entry.getValue(),
        fieldPermissions, roleQueries));
    return unmodifiableMap(indexPermissions);
}

public static class Group {
    private final IndexPrivilege privilege;
    private final Predicate<String> actionMatcher;
    private final String[] indices;
    private final Predicate<String> indexNameMatcher;

    public FieldPermissions getFieldPermissions() {
        return fieldPermissions;
    }

    private final FieldPermissions fieldPermissions;
    private final Set<BytesReference> query;

    public Group(IndexPrivilege privilege, FieldPermissions fieldPermissions, @Nullable Set<BytesReference>
    query, String... indices) {
        assert indices.length != 0;
        this.privilege = privilege;
        this.actionMatcher = privilege.predicate();
        this.indices = indices;
        this.indexNameMatcher = indexMatcher(Arrays.asList(indices));
        this.fieldPermissions = Objects.requireNonNull(fieldPermissions);
        this.query = query;
    }

    public IndexPrivilege privilege() {
        return privilege;
    }

    public String[] indices() {
        return indices;
    }
@Nullable
public Set<BytesReference> getQuery() {
    return query;
}

private boolean check(String action) {
    return actionMatcher.test(action);
}

private boolean check(String action, String index) {
    assert index != null;
    return check(action) && indexNameMatcher.test(index);
}

boolean hasQuery() {
    return query != null;
}
}

private static class DocumentLevelPermissions {

    private Set<BytesReference> queries = null;
    private boolean allowAll = false;

    private void addAll(Set<BytesReference> query) {
        if (allowAll == false) {
            if (queries == null) {
                queries = new HashSet<>();
            }
            queries.addAll(query);
        }
    }

    private boolean isAllowAll() {
        return allowAll;
    }

    private void setAllowAll(boolean allowAll) {
        this.allowAll = allowAll;
    }
}

/*
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 */
package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.time.Clock;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;
import java.util.concurrent.atomic.AtomicReference;

public class StartBasicClusterTask extends ClusterStateUpdateTask {

    private static final String ACKNOWLEDGEMENT_HEADER = "This license update requires acknowledgement. To acknowledge the license, " +
        "please read the following messages and call /start_basic again, this time with the \"acknowledge=true\" parameter;";

    private final Logger logger;
    private final String clusterName;
    private final PostStartBasicRequest request;
    private final ActionListener<PostStartBasicResponse> listener;
    private final Clock clock;

    private AtomicReference<Map<String, Object[]>> ackMessages = new AtomicReference<>(Collections.emptyMap());

    StartBasicClusterTask(Logger logger, String clusterName, Clock clock, PostStartBasicRequest request,
        ActionListener<PostStartBasicResponse> listener) {
        this.logger = logger;
        this.clusterName = clusterName;
        this.request = request;
        this.listener = listener;
        this.clock = clock;
    }

    @Override
    public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
        LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
        logger.debug("license prior to starting basic license: ");
        License oldLicense = LicensesMetaData.extractLicense(oldLicensesMetaData);
        Map<String, Object[]> acknowledgeMessages = ackMessages.get();

        StartBasicClusterTask.Logger logger, String clusterName, Clock clock, PostStartBasicRequest request,
            ActionListener<PostStartBasicResponse> listener) {
            this.logger = logger;
            this.clusterName = clusterName;
            this.request = request;
            this.listener = listener;
            this.clock = clock;
        }

        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
            logger.debug("license prior to starting basic license: ");
            License oldLicense = LicensesMetaData.extractLicense(oldLicensesMetaData);
            Map<String, Object[]> acknowledgeMessages = ackMessages.get();
        }
if (acknowledgeMessages.isEmpty() == false) {
  listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT, acknowledgeMessages, ACKNOWLEDGEMENT_HEADER));
} else if (oldLicense != null & oldLicense.type().equals("basic")) {
  listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.ALREADY_USING_BASIC));
} else {
  listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.GENERATED_BASIC));
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
  XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
  LicensesMetaData licensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);
  License currentLicense = LicensesMetaData.extractLicense(licensesMetaData);
  if (currentLicense == null || currentLicense.type().equals("basic") == false) {
    long issueDate = clock.millis();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    License.Builder specBuilder = License.builder()
      .uid(UUID.randomUUID().toString())
      .issuedTo(clusterName)
      .maxNodes(LicenseService.SELF_GENERATED_LICENSE_MAX_NODES)
      .issueDate(issueDate)
      .type("basic")
      .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
    License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
    if (request.isAcknowledged() == false & currentLicense != null) {
      Map<String, String[]> ackMessages = LicenseService.getAckMessages(selfGeneratedLicense, currentLicense);
      if (ackMessages.isEmpty() == false) {
        this.ackMessages.set(ackMessages);
        return currentState;
      }
    }
    Version trialVersion = null;
    if (licensesMetaData != null) {
      trialVersion = licensesMetaData.getMostRecentTrialVersion();
    }
    LicensesMetaData newLicensesMetaData = new LicensesMetaData(selfGeneratedLicense, trialVersion);
    mdBuilder.putCustom(LicensesMetaData.TYPE, newLicensesMetaData);
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
  } else {
    return currentState;
  }
}
@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error(new ParameterizedMessage("unexpected failure during 
{}", source), e);
    listener.onFailure(e);
}

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[role="xpack"]
[testenv="basic"]
[[update-license]]
=== Update License API

This API enables you to update your license.

[float]
==== Request

`PUT _xpack/license`

[float]
==== Description

You can update your license at runtime without shutting down your nodes. License updates take effect immediately. If the license you are installing does not support all of the features that were available with your previous license, however, you are notified in the response. You must then re-submit the API request with the `acknowledge` parameter set to `true`.

For more information about the different types of licenses, see
https://www.elastic.co/subscriptions.

[float]
==== Query Parameters

`acknowledge`:: (boolean) Specifies whether you acknowledge the license changes. The default value is `false`.

[float]
==== Request Body

`licenses`:: (array) A sequence of one or more JSON documents containing the license information.
If `security` is enabled, you need `manage` cluster privileges to install the license.

If `security` is enabled and you are installing a gold or platinum license, you must enable TLS on the transport networking layer before you install the license. See `<configuring-tls>`.

The following example updates to a basic license:

```
POST _xpack/license
{}
"licenses": [
  {
    "uid":"893361dc-9749-4997-93cb-802e3d7fa4xx",
    "type":"basic",
    "issue_date_in_millis":1411948800000,
    "expiry_date_in_millis":1914278399999,
    "max_nodes":1,
    "issued_to":"issuedTo",
    "issuer":"issuer",
    "signature":xx
  }
]
```

// CONSOLE
// TEST[skip:licensing testing issues]

NOTE: These values are invalid; you must substitute the appropriate content from your license file.

You can alternatively use a `curl` command, for example:

```
curl -XPUT -u <user> 'http://<host>:<port>/_xpack/license' -H "Content-Type: application/json" -d @license.json
```
On Windows machine, use the following command:

```bash
[source,shell]
------------------------------------------------------------
gc .\license.json | Invoke-WebRequest -uri http://<host>:<port>/_xpack/license -Credential elastic -Method Put -ContentType "application/json"
------------------------------------------------------------
```

In these examples,

* `<user>` is a user ID with the appropriate authority.
* `<host>` is the hostname of the {es} node (`localhost` if executing locally)
* `<port>` is the http port (defaults to `9200`)
* `license.json` is the license JSON file

NOTE: If your {es} node has SSL enabled on the HTTP interface, you must start your URL with `https://`

If you previously had a license with more features than the basic license, you receive the following response:

```javascript
[source,js]
------------------------------------------------------------
{
  "acknowledged": false,
  "license_status": "valid",
  "acknowledge": {
    "message": "This license update requires acknowledgement. To acknowledge the license, please read the following messages and update the license again, this time with the "acknowledge=true" parameter:"",
    "watcher": [
      "Watcher will be disabled"
    ],
    "logstash": [
      "Logstash will no longer poll for centrally-managed pipelines"
    ],
    "security": [
      "The following X-Pack security functionality will be disabled: ..."
    ]
  }
}
------------------------------------------------------------
```

To complete the update, you must re-submit the API request and set the `acknowledge` parameter to `true`. For example:
POST _xpack/license?acknowledge=true
{
  "licenses": [
    {
      "uid": "893361dc-9749-4997-93cb-802e3d7fa4xx",
      "type": "basic",
      "issue_date_in_millis": 1411948800000,
      "expiry_date_in_millis": 1914278399999,
      "max_nodes": 1,
      "issued_to": "issuedTo",
      "issuer": "issuer",
      "signature": "xx"
    }
  ]
}

// CONSOLE
// TEST[skip:license testing issues]

Alternatively:

curl -XPUT -u elastic 'http://<host>:<port>/_xpack/license?acknowledge=true' -H "Content-Type: application/json" -d @license.json

// NOTCONSOLE

For more information about the features that are disabled when you downgrade your license, see {xpack-ref}/license-expiration.html[License Expiration].


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*/

/**
* Request and Response objects for the default distribution's License
* APIs.
*/
package org.elasticsearch.protocol.xpack.license;

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```
[role="xpack"]
[[license-settings]]
=== {xpack} License Settings
++++
<titleabbrev>License Settings</titleabbrev>
++++

You can configure this licensing setting in the `elasticsearch.yml` file. For more information, see `{xpack-ref}/license-management.html` [License Management]

`xpack.license.self_generated.type`:
Set to `basic` (default) to enable basic {xpack} features.

```
+++
```

--
If set to `trial`, the self-generated license gives access only to all the features of a x-pack for 30 days. You can later downgrade the cluster to a basic license if needed.

```
--
```

```
{ "xpack.license.delete": {
  "methods": ["DELETE"],
  "url": {
    "path": "/_xpack/license",
    "paths": ["/_xpack/license"],
    "parts": {} 
  },
  "body": null
}
}
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*/
package org.elasticsearch.protocol.xpack.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;
public class GetLicenseRequest extends MasterNodeReadRequest<GetLicenseRequest> {

    public GetLicenseRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportDeleteLicenseAction extends TransportMasterNodeAction<DeleteLicenseRequest,
    AcknowledgedResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportDeleteLicenseAction(Settings settings, TransportService transportService, ClusterService
        clusterService,
        LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, DeleteLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters,
            indexNameExpressionResolver, new DeleteLicenseRequest::new);
this.licenseService = licenseService;
}

@Override
protected String executor() {
    return ThreadPool.Names.MANAGEMENT;
}

@Override
protected AcknowledgedResponse newResponse() {
    return new AcknowledgedResponse();
}

@Override
protected ClusterBlockException checkBlock(DeleteLicenseRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}

@Override
protected void masterOperation(final DeleteLicenseRequest request, ClusterState state, final
ActionListener<AcknowledgedResponse>
listener) throws ElasticsearchException {
    licenseService.removeLicense(request, new ActionListener<ClusterStateUpdateResponse>() {
        @Override
        public void onResponse(ClusterStateUpdateResponse clusterStateUpdateResponse) {
            listener.onResponse(new AcknowledgedResponse(clusterStateUpdateResponse.isAcknowledged()));
        }

        @Override
        public void onFailure(Exception e) {
            listener.onFailure(e);
        }
    });

    [role="xpack"]
    [testenv="basic"]
    [[get-license]]
    === Get License API

This API enables you to retrieve licensing information.

[ flotation]
==== Request
This API returns information about the type of license, when it was issued, and when it expires, for example.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

(local)::
(bool) Specifies whether to retrieve local information. The default value is 'false', which means the information is retrieved from the master node.

You must have `monitor` cluster privileges to use this API. For more information, see {xpack-ref}/security-privileges.html[Security Privileges].

The following example provides information about a trial license:

```json
{
    "license" : {
        "status" : "active",
        "uid" : "cbff45e7-c553-41f7-ae4f-9205eabd80xx",
        "type" : "trial",
        "issue_date" : "2018-10-20T22:05:12.332Z",
        "issue_date_in_millis" : 1540073112332,
    }
}
```
"expiry_date": "2018-11-19T22:05:12.332Z",
"expiry_date_in_millis": 1542665112332,
"max_nodes": 1000,
"issued_to": "test",
"issuer": "elasticsearch",
"start_date_in_millis": -1
}
}

// TESTRESPONSE[s/cbff45e7-c553-41f7-ae4f-9205eabd80xx/\$body.license.uid/]
// TESTRESPONSE[s/basic/\$body.license.type/]
// TESTRESPONSE[s/2018-10-20T22:05:12.332Z/\$body.license.issue_date/]
// TESTRESPONSE[s/1540073112332/\$body.license.issue_date_in_millis/]
// TESTRESPONSE[s/2018-11-19T22:05:12.332Z/\$body.license.expiry_date/]
// TESTRESPONSE[s/1542665112332/\$body.license.expiry_date_in_millis/]
// TESTRESPONSE[s/1000/\$body.license.max_nodes/]
// TESTRESPONSE[s/test/\$body.license.issued_to/]
// TESTRESPONSE[s/elasticsearch?\$body.license.issuer/]

{xpack.license.post_start_basic: {
  "methods": ["POST"],
  "url": {
    "path": "/xpack/license/start_basic",
    "paths": ["/_xpack/license/start_basic"],
    "parts" : { }
  },
  "params": {
  "acknowledge": {
    "type": "boolean",
    "description": "whether the user has acknowledged acknowledge messages (default: false)"
  }
  },
  "body": null
}
}

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package org.elasticsearch.protocol.xpack.license;

import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.protocol.xpack.common.ProtocolUtils;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;

public class PutLicenseResponse extends AcknowledgedResponse {

private static final ConstructingObjectParser<PutLicenseResponse, Void> PARSER = new
ConstructingObjectParser<]("put_license_response", true, (a, v) -> {
    boolean acknowledged = (Boolean) a[0];
    LicensesStatus licensesStatus = LicensesStatus.fromString((String) a[1]);
    @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,
Map<String, String[]>>) a[2];
    if (acknowledgements == null) {
        return new PutLicenseResponse(acknowledged, licensesStatus);
    } else {
        return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements.v1(),
acknowledgements.v2());
    }
});

static {
    PARSER.declareBoolean(constructorArg(), new ParseField("acknowledged"));
    PARSER.declareString(constructorArg(), new ParseField("license_status"));
    PARSER.declareObject(optionalConstructorArg(), (parser, v) -> {
        Map<String, String[]> acknowledgeMessages = new HashMap<>();
        String message = null;
        XContentParser.Token token;
        String currentFieldName = null;
        while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
            if (token == XContentParser.Token.FIELD_NAME) {
                currentFieldName = parser.currentName();
            }
else {
    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 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) {
    super(acknowledged);
    this.status = status;
```java
this.acknowledgeHeader = acknowledgeHeader;
this.acknowledgeMessages = acknowledgeMessages;
}

class LicensesStatus implements Streamable {
    private String acknowledgeHeader;
    private Map<String, String[]> acknowledgeMessages;

    public LicensesStatus status() {
        return status;
    }

    public Map<String, String[]> acknowledgeMessages() {
        return acknowledgeMessages;
    }

    public String acknowledgeHeader() {
        return acknowledgeHeader;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
        status = LicensesStatus.fromId(in.readVInt());
        acknowledgeHeader = in.readOptionalString();
        int size = in.readVInt();
        Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
        for (int i = 0; i < size; i++) {
            String feature = in.readString();
            int nMessages = in.readVInt();
            String[] messages = new String[nMessages];
            for (int j = 0; j < nMessages; j++) {
                messages[j] = in.readString();
            }
            acknowledgeMessages.put(feature, messages);
        }
        this.acknowledgeMessages = acknowledgeMessages;
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        super.writeTo(out);
        out.writeVInt(status.id());
        out.writeOptionalString(acknowledgeHeader);
        out.writeVInt(acknowledgeMessages.size());
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            out.writeString(entry.getKey());
            out.writeVInt(entry.getValue().length);
            for (String message : entry.getValue()) {
                out.writeString(message);
            }
        }
    }
}
```

这段代码定义了一个名为`LicensesStatus`的类，该类实现了`Streamable`接口。`LicensesStatus`类包含两个私有成员变量：`acknowledgeHeader`和`acknowledgeMessages`，以及相应的getter和setter方法。此外，该类还实现了`readFrom`和`writeTo`方法，用于序列化和反序列化。
@Override
protected void addCustomFields(XContentBuilder builder, Params params) throws IOException {
    builder.field("license_status", status.toString());
    if (!acknowledgeMessages.isEmpty()) {
        builder.startObject("acknowledge");
        builder.field("message", acknowledgeHeader);
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            builder.startArray(entry.getKey());
            for (String message : entry.getValue()) {
                builder.value(message);
            }
            builder.endArray();
        }
        builder.endObject();
    }
    builder.endObject();
}

@Override
public String toString() {
    return Strings.toString(this, true, true);
}

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);
}

@Override
public int hashCode() {
    return Objects.hash(super.hashCode(), status, ProtocolUtils.hashCode(acknowledgeMessages),
            acknowledgeHeader);
}
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[role="xpack"]
[testenv="basic"]
[[delete-license]]
=== Delete License API

This API enables you to delete licensing information.

[float]
==== Request

`DELETE /_xpack/license`

[float]
==== Description

When your license expires, [xpack] operates in a degraded mode. For more
information, see [xpack-ref]/license-expiration.html[LICENSE Expiration].

[float]
==== Authorization
You must have `manage` cluster privileges to use this API. For more information, see {xpack-ref}/security-privileges.html [Security Privileges].

```bash
# Examples

The following example queries the info API:

```javascript
DELETE /_xpack/license

// CONSOLE
// TEST[skip:license testing issues]
```

When the license is successfully deleted, the API returns the following response:

```javascript
{
  "acknowledged": true
}
```

```javascript
// NOTCONSOLE
{
  "xpack.license.post": {
    "methods": ["PUT", "POST"],
    "url": {
      "path": "/_xpack/license",
      "paths": ["/_xpack/license"],
      "parts": {},
      "params": {
        "acknowledge": {
          "type": "boolean",
          "description": "whether the user has acknowledged acknowledge messages (default: false)"
        }
      }
    },
    "body": {
      "description": "licenses to be installed"
    }
  }
}
```

/*
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 */
package org.elasticsearch.protocol.xpack.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;

public class PutLicenseRequest extends AcknowledgedRequest<PutLicenseRequest> {

    private String licenseDefinition;
    private boolean acknowledge = false;

    public PutLicenseRequest() {

    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    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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The license can be deleted using the `deleteLicense()` method:

```java
[[java-rest-high-delete-license]]
=== Delete License

[[java-rest-high-delete-license-execution]]
==== Execution

The license can be deleted using the `deleteLicense()` method:

```java
["source","java",subs="attributes,callouts,macros"]
--------------------------------------------------
include-tagged:::{doc-tests}/LicensingDocumentationIT.java[delete-license-execute]
--------------------------------------------------

[[java-rest-high-delete-license-response]]
==== Response

The returned `DeleteLicenseResponse` contains the `acknowledged` flag, which
returns true if the request was processed by all nodes.

```java
["source","java",subs="attributes,callouts,macros"]
--------------------------------------------------
include-tagged:::{doc-tests}/LicensingDocumentationIT.java[delete-license-response]
--------------------------------------------------
```
<1> Check the acknowledge flag. It should be true if license deletion is acknowledged.

```
[[java-rest-high-delete-license-async]]
==== Asynchronous Execution
```

This request can be executed asynchronously:

```
["source","java",subs="attributes,callouts,macros"]
include-tagged::{doc-tests}/LicensingDocumentationIT.java[delete-license-execute-async]
```

```
<1> The `DeleteLicenseRequest` to execute and the `ActionListener` to use when the execution completes

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `DeleteLicenseResponse` looks like:

```
["source","java",subs="attributes,callouts,macros"]
include-tagged::{doc-tests}/LicensingDocumentationIT.java[delete-license-execute-listener]
```

```
<1> Called when the execution is successfully completed. The response is provided as an argument
<2> Called in case of failure. The raised exception is provided as an argument
```

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import java.io.IOException;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.io.stream.Writeable;

/**
 * Status of an X-Pack license.
 */
public enum LicenseStatus implements Writeable {

    ACTIVE("active"),
    INVALID("invalid"),
    EXPIRED("expired"),

    private final String label;

    LicenseStatus(String label) {

        }
this.label = label;
}

public String label() {
    return label;
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    out.writeString(label);
}

public static LicenseStatus readFrom(StreamInput in) throws IOException {
    return fromString(in.readString());
}

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.protocol.xpack.license;

import org.elasticsearch.action.ActionResponse;

public class GetLicenseResponse extends ActionResponse {

    private String license;

    GetLicenseResponse() {
    }

    public GetLicenseResponse(String license) {
        this.license = license;
    }

    public String getLicenseDefinition() {
        return license;
    }
}

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[[java-rest-high-get-license]]
=== Get License
The license can be added or updated using the `getLicense()` method:

```
include-tagged::{doc-tests}/LicensingDocumentationIT.java[get-license-execute]
```

The returned `GetLicenseResponse` contains the license in the JSON format.

```
include-tagged::{doc-tests}/LicensingDocumentationIT.java[get-license-response]
```

```
<1> The text of the license.
```

This request can be executed asynchronously:

```
include-tagged::{doc-tests}/LicensingDocumentationIT.java[get-license-execute-async]
```

```
<1> The `GetLicenseRequest` to execute and the `ActionListener` to use when the execution completes
```

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `GetLicenseResponse` looks like:

```
include-tagged::{doc-tests}/LicensingDocumentationIT.java[get-license-execute-listener]
```

```
<1> Called when the execution is successfully completed. The response is provided as an argument
```

```
<2> Called in case of failure. The raised exception is provided as an argument
```
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 */
package org.elasticsearch.protocol.xpack.license;

import java.util.Locale;
public enum LicensesStatus {
    VALID((byte) 0),
    INVALID((byte) 1),
    EXPIRED((byte) 2);

    private final byte id;

    LicensesStatus(byte id) {
        this.id = id;
    }

    public int id() {
        return id;
    }

    public static LicensesStatus fromId(int id) {
        if (id == 0) {
            return VALID;
        } else if (id == 1) {
            return INVALID;
        } else if (id == 2) {
            return EXPIRED;
        } else {
            throw new IllegalStateException("no valid LicensesStatus for id="+ id);
        }
    }

    @Override
    public String toString() {
        return this.name().toLowerCase(Locale.ROOT);
    }

    public static LicensesStatus fromString(String value) {
        switch (value) {
            case "valid":
                return VALID;
            case "invalid":
                return INVALID;
            case "expired":
                return EXPIRED;
            default:
                throw new IllegalArgumentException("unknown licenses status [" + value + "]");
        }
    }
}

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Alan Beale <biljir@pobox.com> also deserves special credit as he has,
in addition to providing the 12Dicts package and being a major
contributor to the ENABLE word list, given me an incredible amount of
feedback and created a number of special lists (those found in the
Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to
the Moby (TM) Words II [MWords] package), a subset of the 1000 most
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3449 Martha Ct.
Arcata, CA 95521-4884

grady@netcom.com
grady@northcoast.com

The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English
> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a file space called PUBLIC on the University mainframe, because it was considered public domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

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The 50 level includes Brian's frequency class 1, words words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files form the Census report is a government document which I
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The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is in the public domain.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package, and the 10,196 places list from the MWords package.

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The 95 level includes the 354,984 single words, 256,772 compound words, 4,946 female names and the 3,897 male names, and 21,986 names from the MWords package, ABLE.LST from the ENABLE Supplement, and some additional words found in my part-of-speech database that were not found anywhere else.

Accent information was taken from UKACD.

My VARCON package was used to create the American, British, and Canadian word list.

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[[java-rest-high-put-license]]

=== Update License

[[java-rest-high-put-license-execution]]

==== Execution

The license can be added or updated using the `putLicense()` method:

["source","java",subs="attributes,callouts,macros"]

--------------------------------------------------
include-tagged::{doc-tests}/LicensingDocumentationIT.java[put-license-execute]
--------------------------------------------------

<1> Set the categories of information to retrieve. The default is to return no information which is useful for checking if `xpack` is installed but not much else.

<2> A JSON document containing the license information.

[[java-rest-high-put-license-response]]

==== Response

The returned `PutLicenseResponse` contains the `LicensesStatus`, `acknowledged` flag and possible acknowledge messages. The acknowledge messages are present if you previously had a license with more features than one you are trying to update and you didn't set the `acknowledge` flag to `true`. In this case you need to display the messages to the end user and if they agree, resubmit the license with the `acknowledge` flag set to `true`. Please note that the request will still return a 200 return code even if requires an acknowledgement. So, it is necessary to check the `acknowledged` flag.

["source","java",subs="attributes,callouts,macros"]

--------------------------------------------------
include-tagged::{doc-tests}/LicensingDocumentationIT.java[put-license-response]
--------------------------------------------------

<1> The status of the license

<2> Make sure that the license is valid.

<3> Check the acknowledge flag. It should be true if license is acknowledged.

<4> Otherwise we can see the acknowledge messages in `acknowledgeHeader()`

<5> and check component-specific messages in `acknowledgeMessages()`.
Asynchronous Execution

This request can be executed asynchronously:

```java
[source","java",subs="attributes,callouts,macros"]
--------------------------------------------------
include-tagged::[doc-tests]/LicensingDocumentationIT.java[put-license-execute-async]
--------------------------------------------------
<1> The `PutLicenseRequest` to execute and the `ActionListener` to use when
the execution completes

The asynchronous method does not block and returns immediately. Once it is
completed the `ActionListener` is called back using the `onResponse` method
if the execution successfully completed or using the `onFailure` method if
it failed.

A typical listener for `PutLicenseResponse` looks like:

```java
[source","java",subs="attributes,callouts,macros"]
--------------------------------------------------
include-tagged::[doc-tests]/LicensingDocumentationIT.java[put-license-execute-listener]
--------------------------------------------------
<1> Called when the execution is successfully completed. The response is
provided as an argument
<2> Called in case of failure. The raised exception is provided as an argument
```

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import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;

public class DeleteLicenseRequest extends AcknowledgedRequest<DeleteLicenseRequest> {

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

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package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;
import org.elasticsearch.protocol.xpack.license.LicensesStatus;
import org.elasticsearch.test.ESSingleNodeTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;

import org.elasticsearch.action.ActionFuture;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESSingleNodeTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.junit.Before;

import java.util.Collection;
import java.util.Collections;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicBoolean;

import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;

public class LicensesManagerServiceTests extends ESSingleNodeTestCase {

    @Override
    protected Collection<Class<? extends Plugin>> getPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    protected Settings nodeSettings() {
        return Settings.builder().put(super.nodeSettings()).
        .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
        .put(XPackSettings.MONITORING_ENABLED.getKey(), false)
        .put(XPackSettings.WATCHER_ENABLED.getKey(), false)
        .put(XPackSettings.GRAPH_ENABLED.getKey(), false)
        .put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
        .build();
    }

    @Override
    protected boolean resetNodeAfterTest() {
        return true;
    }

    @Before
    public void waitForTrialLicenseToBeGenerated() throws Exception {
        assertBusy(() ->
            assertNotNull(getInstanceFromNode(ClusterService.class).state().metaData().custom(LicensesMetaData.TYPE)));
    }

    public void testStoreAndGetLicenses() throws Exception {
        LicenseService licenseService = getInstanceFromNode(LicenseService.class);
        ClusterService clusterService = getInstanceFromNode(ClusterService.class);
        License goldLicense = TestUtils.generateSignedLicense("gold", TimeValue.timeValueHours(1));
        TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
        License silverLicense = TestUtils.generateSignedLicense("silver", TimeValue.timeValueHours(2));
        TestUtils.registerAndAckSignedLicenses(licenseService, silverLicense, LicensesStatus.VALID);
    }
}
License platinumLicense = TestUtils.generateSignedLicense("platinum", TimeValue.timeValueHours(1));
TestUtils.registerAndAckSignedLicenses(licenseService, platinumLicense, LicensesStatus.VALID);
LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
assertThat(licensesMetaData.getLicense(), equalTo(platinumLicense));
final License getLicense = licenseService.getLicense();
assertThat(getLicense, equalTo(platinumLicense));
}

// TODO: Add test/feature blocking the registration of basic license
public void testEffectiveLicenses() throws Exception {
final LicenseService licenseService = getInstanceFromNode(LicenseService.class);
final ClusterService clusterService = getInstanceFromNode(ClusterService.class);
License goldLicense = TestUtils.generateSignedLicense("gold", TimeValue.timeValueSeconds(5));
// put gold license
TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
assertThat(LicenseService.getLicense(licensesMetaData), equalTo(goldLicense));
License platinumLicense = TestUtils.generateSignedLicense("platinum", TimeValue.timeValueSeconds(3));
// put platinum license
TestUtils.registerAndAckSignedLicenses(licenseService, platinumLicense, LicensesStatus.VALID);
licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
assertThat(LicenseService.getLicense(licensesMetaData), equalTo(platinumLicense));
}

public void testInvalidLicenseStorage() throws Exception {
LicenseService licenseService = getInstanceFromNode(LicenseService.class);
ClusterService clusterService = getInstanceFromNode(ClusterService.class);
License signedLicense = TestUtils.generateSignedLicense(TimeValue.timeValueMinutes(2));
// modify content of signed license
License tamperedLicense = License.builder()
    .fromLicenseSpec(signedLicense, signedLicense.signature())
    .expiryDate(signedLicense.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
    .validate()
    .build();
TestUtils.registerAndAckSignedLicenses(licenseService, tamperedLicense, LicensesStatus.INVALID);
// ensure that the invalid license never made it to cluster state
LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
assertThat(licensesMetaData.getLicense(), not(equalTo(tamperedLicense)));
}

public void testRemoveLicenses() throws Exception {
LicenseService licenseService = getInstanceFromNode(LicenseService.class);
ClusterService clusterService = getInstanceFromNode(ClusterService.class);
// generate signed licenses
License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(1));
TestUtils.registerAndAckSignedLicenses(licenseService, license, LicensesStatus.VALID);
LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
assertThat(licensesMetaData.getLicense(), not(LicensesMetaData.LICENSE_TOMBSTONE));

// remove signed licenses
removeAndAckSignedLicenses(licenseService);
licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
assertThat(licensesMetaData.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
}

private void removeAndAckSignedLicenses(final LicenseService licenseService) {
    final CountDownLatch latch = new CountDownLatch(1);
    final AtomicBoolean success = new AtomicBoolean(false);
    licenseService.removeLicense(new DeleteLicenseRequest(), new
    ActionListener<ClusterStateUpdateResponse>() {
        @Override
        public void onResponse(ClusterStateUpdateResponse clusterStateUpdateResponse) {
            if (clusterStateUpdateResponse.isAcknowledged()) {
                success.set(true);
            }
            latch.countDown();
        }
        @Override
        public void onFailure(Exception throwable) {
            latch.countDown();
        }
    });
    try {
        latch.await();
    } catch (InterruptedException e) {
        fail(e.getMessage());
    }
    assertThat("remove license(s) failed", success.get(), equalTo(true));
}

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 */
package org.elasticsearch.license;
import org.elasticsearch.action.support.master.MasterNodeReadOperationRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.protocol.xpack.license.GetLicenseRequest;

public class GetLicenseRequestBuilder extends MasterNodeReadOperationRequestBuilder<GetLicenseRequest,
GetLicenseResponse,
    GetLicenseRequestBuilder> {

    public GetLicenseRequestBuilder(ElasticsearchClient client) {
         this(client, GetLicenseAction.INSTANCE);
    }

    /**
     * Creates new get licenses request builder
     *
     * @param client elasticsearch client
     */
    public GetLicenseRequestBuilder(ElasticsearchClient client, GetLicenseAction action) {
        super(client, action, new GetLicenseRequest());
    }
}

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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
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or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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*/
package org.elasticsearch.license;

import com.carrotsearch.randomizedtesting.RandomizedTest;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.time.DateMathParser;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.licensor.LicenseSigner;
import org.elasticsearch.protocol.xpack.license.LicensesStatus;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;
import org.hamcrest.MatcherAssert;
import org.joda.time.format.DateTimeFormatter;
import org.junit.Assert;
import java.io.IOException;
import java.io.InputStream;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardCopyOption;
import java.util.ArrayList;
import java.util.List;
import java.util.UUID;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicReference;

import static com.carrotsearch.randomizedtesting.RandomizedTest.randomBoolean;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomInt;
import static org.apache.lucene.util.LuceneTestCase.createTempFile;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.ESTestCase.randomAlphaOfLength;
import static org.elasticsearch.test.ESTestCase.randomFrom;
import static org.elasticsearch.test.ESTestCase.randomIntBetween;
import static org.hamcrest.core.IsEqual.equalTo;
import static org.junit.Assert.assertThat;

public class TestUtils {

    private static final FormatDateTimeFormatter formatDateTimeFormatter = Joda.forPattern("yyyy-MM-dd");
    private static final DateMathParser dateMathParser = formatDateTimeFormatter.toDateMathParser();
    private static final DateTimeFormatter dateTimeFormatter = formatDateTimeFormatter.printer();

    public static String dateMathString(String time, final long now) {
        return dateTimeFormatter.print(dateMathParser.parse(time, () -> now));
    }

    public static long dateMath(String time, final long now) {
        return dateMathParser.parse(time, () -> now);
    }

    public static LicenseSpec generateRandomLicenseSpec(int version) {
        boolean datesInMillis = randomBoolean();
        long now = System.currentTimeMillis();
        String uid = UUID.randomUUID().toString();
        String feature = "feature__" + randomInt();
        String issuer = "issuer__" + randomInt();
        String issuedTo = "issuedTo__" + randomInt();
        final String type;
        final String subscriptionType;
    }
}
if (version < License.VERSION_NO_FEATURE_TYPE) {
    subscriptionType = randomFrom("gold", "silver", "platinum");
    type = "subscription":randomFrom("subscription", "internal", "development");
} else {
    subscriptionType = null;
    type = randomFrom("basic", "dev", "gold", "silver", "platinum");
}
int maxNodes = RandomizedTest.randomIntBetween(5, 100);
if (datesInMillis) {
    long issueDateInMillis = dateMath("now", now);
    long expiryDateInMillis = dateMath("now+10d/d", now);
    return new LicenseSpec(version, uid, feature, issueDateInMillis, expiryDateInMillis, type, subscriptionType, issuedTo, issuer, maxNodes);
} else {
    String issueDate = dateMathString("now", now);
    String expiryDate = dateMathString("now+10d/d", now);
    return new LicenseSpec(version, uid, feature, issueDate, expiryDate, type, subscriptionType, issuedTo, issuer, maxNodes);
}
}

public static String generateLicenseSpecString(LicenseSpec licenseSpec) throws IOException {
    XContentBuilder licenses = jsonBuilder();
    licenses.startObject();
    licenses.startArray("licenses");
    licenses.startObject()
        .field("uid", licenseSpec.uid)
        .field("type", licenseSpec.type)
        .field("subscription_type", licenseSpec.subscriptionType)
        .field("issued_to", licenseSpec.issuedTo)
        .field("issuer", licenseSpec.issuer)
        .field("feature", licenseSpec.feature)
        .field("max_nodes", licenseSpec.maxNodes);
    if (licenseSpec.issueDate != null) {
        licenses.field("issue_date", licenseSpec.issueDate);
    } else {
        licenses.field("issue_date_in_millis", licenseSpec.issueDateInMillis);
    }
    if (licenseSpec.expiryDate != null) {
        licenses.field("expiry_date", licenseSpec.expiryDate);
    } else {
        licenses.field("expiry_date_in_millis", licenseSpec.expiryDateInMillis);
    }
    licenses.field("version", licenseSpec.version);
    licenses.endObject();
    licenses.endArray();
public static License generateLicenses(LicenseSpec spec) {
    License.Builder builder = License.builder()
        .uid(spec.uid)
        .feature(spec.feature)
        .type(spec.type)
        .subscriptionType(spec.subscriptionType)
        .issuedTo(spec.issuedTo)
        .issuer(spec.issuer)
        .maxNodes(spec.maxNodes);

    if (spec.expiryDate != null) {
        builder.expiryDate(DateUtils.endOfTheDay(spec.expiryDate));
    } else {
        builder.expiryDate(spec.expiryDateInMillis);
    }

    if (spec.issueDate != null) {
        builder.issueDate(DateUtils.beginningOfTheDay(spec.issueDate));
    } else {
        builder.issueDate(spec.issueDateInMillis);
    }

    return builder.build();
}

public static void assertLicenseSpec(LicenseSpec spec, License license) {
    MatcherAssert.assertThat(license.uid(), equalTo(spec.uid));
    MatcherAssert.assertThat(license.issuedTo(), equalTo(spec.issuedTo));
    MatcherAssert.assertThat(license.issuer(), equalTo(spec.issuer));
    MatcherAssert.assertThat(license.type(), equalTo(spec.type));
    MatcherAssert.assertThat(license.maxNodes(), equalTo(spec.maxNodes));

    if (spec.expiryDate != null) {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(DateUtils.endOfTheDay(spec.expiryDate)));
    } else {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(spec.expiryDateInMillis));
    }

    if (spec.issueDate != null) {
        MatcherAssert.assertThat(license.issueDate(), equalTo(DateUtils.beginningOfTheDay(spec.issueDate)));
    } else {
        MatcherAssert.assertThat(license.issueDate(), equalTo(spec.issueDateInMillis));
    }
}

public static class LicenseSpec {
    public final int version;
    public final String feature;
public final String issueDate;
public final long issueDateInMillis;
public final String expiryDate;
public final long expiryDateInMillis;
public final String uid;
public final String type;
public final String subscriptionType;
public final String issuedTo;
public final String issuer;
public final int maxNodes;

public LicenseSpec(String issueDate, String expiryDate) {
    this(License.VERSION_CURRENT, UUID.randomUUID().toString(), "feature", issueDate, expiryDate, "trial", "none", "customer",
    "elasticsearch", 5);
}

public LicenseSpec(int version, String uid, String feature, long issueDateInMillis, long expiryDateInMillis, String type,
    String subscriptionType, String issuedTo, String issuer, int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDateInMillis = issueDateInMillis;
    this.issueDate = null;
    this.expiryDateInMillis = expiryDateInMillis;
    this.expiryDate = null;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}

public LicenseSpec(int version, String uid, String feature, String issueDate, String expiryDate, String type,
    String subscriptionType, String issuedTo, String issuer, int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDate = issueDate;
    this.issueDateInMillis = -1;
    this.expiryDate = expiryDate;
    this.expiryDateInMillis = -1;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}
private static Path getTestPriKeyPath() throws Exception {
    return getResourcePath("/private.key");
}

private static Path getTestPubKeyPath() throws Exception {
    return getResourcePath("/public.key");
}

public static String dumpLicense(License license) throws Exception {
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    builder.startObject();
    builder.startObject("license");
    license.toInnerXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    return Strings.toString(builder);
}

public static License generateSignedLicense(TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(null, -1, expiryDuration);
}

public static License generateSignedLicense(String type, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(type, -1, expiryDuration);
}

public static License generateSignedLicense(long issueDate, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(null, issueDate, expiryDuration);
}

public static License generateSignedLicense(String type, long issueDate, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(type, randomIntBetween(License.VERSION_START, License.VERSION_CURRENT), issueDate, expiryDuration);
}

public static License generateSignedLicenseOldSignature() {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_START_DATE)
        .issuedTo("customer")
        .maxNodes(5)
        .type("trial")
        .issueDate(issueDate)
        .expiryDate(issueDate + TimeValue.timeValueHours(24).getMillis());
** This method which chooses the license type randomly if the type is null. However, it will not randomly
* choose trial or basic types as those types can only be self-generated.

```java
public static License generateSignedLicense(String type, int version, long issueDate, TimeValue expiryDuration)
    throws Exception {
    long issue = (issueDate != -1L) ? issueDate : System.currentTimeMillis() -
        TimeValue.timeValueHours(2).getMillis();
    final String licenseType;
    if (version < License.VERSION_NO_FEATURE_TYPE) {
        licenseType = randomFrom("subscription", "internal", "development");
    } else {
        licenseType = (type != null) ? type : randomFrom("silver", "dev", "gold", "platinum");
    }
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(version)
        .expiryDate(System.currentTimeMillis() + expiryDuration.getMillis())
        .issueDate(issue)
        .type(licenseType)
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    if (version == License.VERSION_START) {
        builder.subscriptionType((type != null) ? type : randomFrom("dev", "gold", "platinum", "silver");
        builder.feature(randomAlphaOfLength(10));
    }
    final LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}
```

```java
public static License generateExpiredNonBasicLicense() throws Exception {
    return generateExpiredNonBasicLicense(randomFrom("silver", "dev", "gold", "platinum"));
}
```

```java
public static License generateExpiredNonBasicLicense(String type) throws Exception {
    return generateExpiredNonBasicLicense(randomFrom("silver", "dev", "gold", "platinum"));
}
```
return generateExpiredNonBasicLicense(type,
    System.currentTimeMillis() - TimeValue.timeValueHours(randomIntBetween(1, 10)).getMillis());
}

public static License generateExpiredNonBasicLicense(String type, long expiryDate) throws Exception {
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(expiryDate)
        .issueDate(expiryDate - TimeValue.timeValueMinutes(10).getMillis())
        .type(type)
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}

private static Path getResourcePath(String resource) throws Exception {
    Path resourceFile = createTempFile();
    try (InputStream resourceInput = TestUtils.class.getResourceAsStream(resource)) {
        Files.copy(resourceInput, resourceFile, StandardCopyOption.REPLACE_EXISTING);
    }
    return resourceFile;
}

public static void registerAndAckSignedLicenses(final LicenseService licenseService, License license,
    final LicensesStatus expectedStatus) {
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(license).acknowledge(true);
    final CountDownLatch latch = new CountDownLatch(1);
    final AtomicReference<LicensesStatus> status = new AtomicReference<>();
    licenseService.registerLicense(putLicenseRequest, new ActionListener<PutLicenseResponse>() {
        @Override
        public void onResponse(PutLicenseResponse licensesUpdateResponse) {
            status.set(licensesUpdateResponse.status());
            latch.countDown();
        }

        @Override
        public void onFailure(Exception e) {
            latch.countDown();
        }
    });
    try {
        latch.await();
    } catch (InterruptedException e) {
        Assert.fail(e.getMessage());
    }
}
```
assertThat(status.get(), equalTo(expectedStatus));
}

public static class AssertingLicenseState extends XPackLicenseState {
    public final List<License.OperationMode> modeUpdates = new ArrayList<>();
    public final List<Boolean> activeUpdates = new ArrayList<>();
    public final List<Version> trialVersionUpdates = new ArrayList<>();

    public AssertingLicenseState() {
        super(Settings.EMPTY);
    }

    @Override
    void update(License.OperationMode mode, boolean active, Version mostRecentTrialVersion) {
        modeUpdates.add(mode);
        activeUpdates.add(active);
        trialVersionUpdates.add(mostRecentTrialVersion);
    }
}

/**
 * A license state that makes the {update(License.OperationMode, boolean, Version)} method public for use in tests.
 */
public static class UpdatableLicenseState extends XPackLicenseState {
    public UpdatableLicenseState() {
        super(UpdatableLicenseState.class); // Assuming class is registered correctly.
    }

    public UpdatableLicenseState(Settings settings) {
        super(settings);
    }

    @Override
    public void update(License.OperationMode mode, boolean active, Version mostRecentTrialVersion) {
        super.update(mode, active, mostRecentTrialVersion);
    }
}

public static void putLicense(MetaData.Builder builder, License license) {
    builder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
}

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 */
```
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class GetTrialStatusAction extends Action<GetTrialStatusRequest, GetTrialStatusResponse,
GetTrialStatusRequestBuilder> {

    public static final GetTrialStatusAction INSTANCE = new GetTrialStatusAction();
    public static final String NAME = "cluster:admin/xpack/license/trial_status";

    private GetTrialStatusAction() {
        super(NAME);
    }

    @Override
    public GetTrialStatusRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new GetTrialStatusRequestBuilder(client, this);
    }

    @Override
    public GetTrialStatusResponse newResponse() {
        return new GetTrialStatusResponse();
    }
}

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Elasticsearch X-Pack
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package org.elasticsearch.license;

import org.elasticsearch.test.ESTestCase;
import java.util.Locale;
import static org.elasticsearch.license.License.OperationMode;
import static org.hamcrest.Matchers.equalTo;

/**
* Tests {@link License.OperationMode} for correctness.
* <p>
* If you change the behavior of these tests, then it means that licensing changes across the products!
*/
public class LicenseOperationModeTests extends ESTestCase {

public void testResolveTrial() {
    // assert 1.x BWC
    assertResolve(OperationMode.TRIAL, "nONE", "DEv", "deveLopment");
    // assert expected (2.x+) variant
    assertResolve(OperationMode.TRIAL, "tRiAl", "trial");
}

public void testResolveBasic() {
    // assert expected (2.x+) variant (note: no 1.x variant of BASIC)
    assertResolve(OperationMode.BASIC, "bAsIc", "basic");
}

public void testResolveStandard() {
    // assert expected (2.x+) variant (note: no 1.x variant of STANDARD)
    assertResolve(OperationMode.STANDARD, "StAnDARd", "standard");
}

public void testResolveGold() {
    // assert expected (2.x+) variant (note: no different 1.x variant of GOLD)
    assertResolve(OperationMode.GOLD, "SiLvEr", "gOlD", "silver", "gold");
}

public void testResolvePlatinum() {
    // assert 1.x BWC
    assertResolve(OperationMode.PLATINUM, "iNtErNaL");
    // assert expected (2.x+) variant
    assertResolve(OperationMode.PLATINUM, "PLAtINum", "platinum");
}
public void testResolveUnknown() {
    // 'enterprise' is a type that exists in cloud but should be rejected under normal operation
    // See https://github.com/elastic/x-plugins/issues/3371
    String[] types = { "unknown", "fake", "enterprise" };

    for (String type : types) {
        try {
            OperationMode.resolve(type);
            fail(String.format(Locale.ROOT, "[%s] should not be recognized as an operation mode", type));
        }
        catch (IllegalArgumentException e) {
            assertThat(e.getMessage(), equalTo("unknown type [" + type + "]"));
        }
    }
}

private static void assertResolve(OperationMode expected, String... types) {
    for (String type : types) {
        assertThat(OperationMode.resolve(type), equalTo(expected));
    }
}

package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {

    private boolean acknowledge = false;

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    public PostStartBasicRequest acknowledge(boolean acknowledge) {

this.acknowledge = acknowledge;
return this;
}

public boolean isAcknowledged() {
    return acknowledge;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    acknowledge = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeBoolean(acknowledge);
}

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import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.env.Environment;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;

import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;
import static org.hamcrest.CoreMatchers.equalTo;
import static org.hamcrest.CoreMatchers.nullValue;

@ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes = 0,
transportClientRatio = 0)
public class LicenseServiceClusterTests extends AbstractLicensesIntegrationTestCase {

@Override
protected Settings nodeSettings(int nodeOrdinal) {
    return nodeSettingsBuilder(nodeOrdinal).build();
}

private Settings.Builder nodeSettingsBuilder(int nodeOrdinal) {
    return Settings.builder()
    .put(super.nodeSettings(nodeOrdinal))
    .put("node.data", true)
    .put("resource.reload.interval.high", "500ms") // for license mode file watcher
    .put(NetworkModule.HTTP_ENABLED.getKey(), true);
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class,
Netty4Plugin.class);
}

@Override
protected Collection<Class<? extends Plugin>> transportClientPlugins() {
    return nodePlugins();
}

public void testClusterRestartWithLicense() throws Exception {
    wipeAllLicenses();

    int numNodes = randomIntBetween(1, 5);
    logger.info("--> starting {} node(s)", numNodes);
    internalCluster().startNodes(numNodes);
    ensureGreen();
logger.info("--> put signed license");
LicensingClient licensingClient = new LicensingClient(client());
License license = TestUtils.generateSignedLicense(TimeValue.timeValueMinutes(1));
putLicense(license);
assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
assertOperationMode(license.operationMode());

logger.info("--> restart all nodes");
internalCluster().fullRestart();
ensureYellow();
licensingClient = new LicensingClient(client());
logger.info("--> get and check signed license");
assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
logger.info("--> remove licenses");
licensingClient.prepareDeleteLicense().get();
assertOperationMode(License.OperationMode.MISSING);

logger.info("--> restart all nodes");
internalCluster().fullRestart();
ensureYellow();
assertThat(licensingClient.prepareGetLicense().get().license(), nullValue());
assertOperationMode(License.OperationMode.MISSING);

wipeAllLicenses();
public void testClusterRestartWhileEnabled() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
    ensureGreen();
    assertLicenseActive(true);
    logger.info("-- > restart node");
    internalCluster().fullRestart();
    ensureYellow();
    logger.info("-- > await node for enabled");
    assertLicenseActive(true);
}

public void testClusterRestartWhileGrace() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
    assertLicenseActive(true);
    putLicense(TestUtils.generateSignedLicense(TimeValue.timeValueMillis(0)));
    ensureGreen();
    assertLicenseActive(true);
    logger.info("-- > restart node");
    internalCluster().fullRestart();
    ensureYellow();
    logger.info("-- > await node for grace_period");
    assertLicenseActive(true);
}

public void testClusterRestartWhileExpired() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
    ensureGreen();
    assertLicenseActive(true);
    putLicense(TestUtils.generateExpiredNonBasicLicense(System.currentTimeMillis() -
LicenseService.GRACE_PERIOD_DURATION.getMillis()));
    assertLicenseActive(false);
    logger.info("-- > restart node");
    internalCluster().fullRestart();
    ensureYellow();
    logger.info("-- > await node for disabled");
    assertLicenseActive(false);
}

public void testClusterRestartWithOldSignature() throws Exception {
    assumeFalse("Can't run in a FIPS JVM. We can't generate old licenses since PBEWithSHA1AndDESede is not available", inFipsJvm());
    wipeAllLicenses();
    internalCluster().startNode();
}
ensureGreen();
assertLicenseActive(true);
putLicense(TestUtils.generateSignedLicenseOldSignature());
LicensingClient licensingClient = new LicensingClient(client());
assertThat(licensingClient.prepareGetLicense().get().license().version(),
equalTo(License.VERSION_START_DATE));
logger.info("---> restart node");
internalCluster().fullRestart(); // restart so that license is updated
ensureYellow();
logger.info("---> await node for enabled");
assertLicenseActive(true);
licensingClient = new LicensingClient(client());
assertThat(licensingClient.prepareGetLicense().get().license().version(),
equalTo(License.VERSION_CURRENT)); //license updated
internalCluster().fullRestart(); // restart once more and verify updated license is active
ensureYellow();
logger.info("---> await node for enabled");
assertLicenseActive(true);
private void assertOperationMode(License.OperationMode operationMode) throws InterruptedException {
    boolean success = awaitBusy(() -> {
        for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
            if (licenseState.getOperationMode() == operationMode) {
                return true;
            }
        }
        return false;
    });
    assertTrue(success);
}

private void writeCloudInternalMode(String mode) throws Exception {
    for (Environment environment : internalCluster().getDataOrMasterNodeInstances(Environment.class)) {
        Path licenseModePath = XPackPlugin.resolveConfigFile(environment, "license_mode");
        Files.createDirectories(licenseModePath.getParent());
        Files.write(licenseModePath, mode.getBytes(StandardCharsets.UTF_8));
    }
}
*/
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*/
package org.elasticsearch.license;
import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class GetBasicStatusRequestBuilder extends ActionRequestBuilder<GetBasicStatusRequest,
GetBasicStatusResponse,
GetBasicStatusRequestBuilder> {

    GetBasicStatusRequestBuilder(ElasticsearchClient client, GetBasicStatusAction action) {
        super(client, action, new GetBasicStatusRequest());
    }
}

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 */
package org.elasticsearch.license.licensor.tools;

import org.elasticsearch.cli.Command;
import org.elasticsearch.cli.CommandTestCase;
import org.elasticsearch/cli.ExitCodes;
import org.elasticsearch.cli.UserException;
import java.nio.file.Files;
import java.nio.file.Path;

import static org.hamcrest.CoreMatchers.containsString;

public class KeyPairGenerationToolTests extends CommandTestCase {

    @Override
    protected Command newCommand() {
        return new KeyPairGeneratorTool();
    }

    public void testMissingKeyPaths() throws Exception {
        Path exists = createTempFile("", "existing");
        Path dne = createTempDir().resolve("dne");
        UserException e = expectThrows(
            UserException.class,
            () -> execute(
                "--publicKeyPath",
                exists.toString(),
                "--privateKeyPath",
                dne.toString()));
        assertThat(e.getMessage(), containsString("existing"));
        assertEquals(ExitCodes.USAGE, e.exitCode);
        e = expectThrows(
            UserException.class,
            () -> execute(
                "--publicKeyPath",
                dne.toString(),
                "--privateKeyPath",
                exists.toString()));
        assertThat(e.getMessage(), containsString("existing"));
        assertEquals(ExitCodes.USAGE, e.exitCode);
    }

    public void testTool() throws Exception {
        Path keysDir = createTempDir();
        Path publicKeyFilePath = keysDir.resolve("public");
        Path privateKeyFilePath = keysDir.resolve("private");
        execute(
            "--publicKeyPath",
            publicKeyFilePath.toString(),
            "--privateKeyPath",
            privateKeyFilePath.toString());
        assertTrue(publicKeyFilePath.toString(), Files.exists(publicKeyFilePath));
        assertTrue(privateKeyFilePath.toString(), Files.exists(privateKeyFilePath));
    }
}
public class LicensesMetaDataSerializationTests extends ESTestCase {

    public void testXContentSerializationOneSignedLicense() throws Exception {
        License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
        LicensesMetaData licensesMetaData = new LicensesMetaData(license, null);
        XContentBuilder builder = XContentFactory.jsonBuilder();
        builder.startObject();
        builder.startObject("licenses");
        licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
        builder.endObject();
        builder.endObject();
        LicensesMetaData licensesMetaDataFromXContent =
            getLicensesMetaDataFromXContent(createParser(builder));
        assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
        assertNull(licensesMetaDataFromXContent.getMostRecentTrialVersion());
    }

    @Test
    public void testXContentSerializationAllSignedLicense() throws Exception {
        License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
        LicensesMetaData licensesMetaData = new LicensesMetaData(license, null);
        XContentBuilder builder = XContentFactory.jsonBuilder();
        builder.startObject();
        builder.startObject("licenses");
        licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
        builder.endObject();
        builder.endObject();
        LicensesMetaData licensesMetaDataFromXContent =
            getLicensesMetaDataFromXContent(createParser(builder));
        assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
        assertNull(licensesMetaDataFromXContent.getMostRecentTrialVersion());
    }

    @Test
    public void testXContentSerializationAllSignedLicenseWithMostRecentTrialVersion() throws Exception {
        License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
        LicensesMetaData licensesMetaData = new LicensesMetaData(license, null);
        XContentBuilder builder = XContentFactory.jsonBuilder();
        builder.startObject();
        builder.startObject("licenses");
        licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
        builder.endObject();
        builder.endObject();
        LicensesMetaData licensesMetaDataFromXContent =
            getLicensesMetaDataFromXContent(createParser(builder));
        assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
        assertNotNull(licensesMetaDataFromXContent.getMostRecentTrialVersion());
    }
}

private LicensesMetaData getLicensesMetaDataFromXContent(XContentParser parser) {
    return LicensesMetaData.fromXContent(parser);
}

private XContentParser createParser(XContentBuilder builder) {
    return builder.fluentBuilder();
}
public void testXContentSerializationOneSignedLicenseWithUsedTrial() throws Exception {
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
    LicensesMetaData licensesMetaData = new LicensesMetaData(license, Version.CURRENT);
    XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    LicensesMetaData licensesMetaDataFromXContent =
    getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
    assertEquals(licensesMetaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}

public void testLicenseMetadataParsingDoesNotSwallowOtherMetaData() throws Exception {
    new Licensing(Settings.EMPTY); // makes sure LicensePlugin is registered in Custom MetaData
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
    LicensesMetaData licensesMetaData = new LicensesMetaData(license, Version.CURRENT);
    RepositoryMetaData repositoryMetaData = new RepositoryMetaData("repo", "fs", Settings.EMPTY);
    RepositoriesMetaData repositoriesMetaData = new
    RepositoriesMetaData(repositoriesMetaData = new
    LicensesMetaData(Collections.singletonList(repositoryMetaData));
    final MetaData.Builder metaDataBuilder = MetaData.builder();
    if (randomBoolean()) { // random order of insertion
        metaDataBuilder.putCustom(licensesMetaData.getWriteableName(), licensesMetaData);
        metaDataBuilder.putCustom(repositoriesMetaData.getWriteableName(), repositoriesMetaData);
    } else {
        metaDataBuilder.putCustom(repositoriesMetaData.getWriteableName(), repositoriesMetaData);
        metaDataBuilder.putCustom(licensesMetaData.getWriteableName(), licensesMetaData);
    }
    // serialize metadata
    XContentBuilder builder = XContentFactory.jsonBuilder();
    Params params = new
    ToXContent.MapParams(Collections.singletonMap(MetaData.CONTEXT_MODE_PARAM,
    MetaData.CONTEXT_MODE_GATEWAY));
    builder.startObject();
    builder = metaDataBuilder.build().toXContent(builder, params);
    builder.endObject();
    // deserialize metadata again
    MetaData metaData = MetaData.Builder.fromXContent(createParser(builder));
    // check that custom metadata still present
    assertNotEquals(metaData.custom(licensesMetaData.getWriteableName()), null);
    assertNotEquals(metaData.custom(repositoriesMetaData.getWriteableName()), null);
}

public void testXContentSerializationOneTrial() throws Exception {
}
long issueDate = System.currentTimeMillis();
License.Builder specBuilder = License.builder()
    .uid(UUID.randomUUID().toString())
    .issuedTo("customer")
    .maxNodes(5)
    .issueDate(issueDate)
    .type(randomBoolean() ? "trial" : "basic")
    .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
final License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
LicensesMetaData licensesMetaData = new LicensesMetaData(trialLicense, Version.CURRENT);
XContentBuilder builder = XContentFactory.jsonBuilder();
builder.startObject();
builder.startObject("licenses");
licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.endObject();
builder.endObject();
LicensesMetaData licensesMetaDataFromXContent =
    getLicensesMetaDataFromXContent(createParser(builder));
assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(trialLicense));
assertEquals(licensesMetaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}

public void testLicenseTombstoneFromXContext() throws Exception {
    final XContentBuilder builder = XContentFactory.jsonBuilder();
builder.startObject();
builder.startObject("licenses");
builder.nullField("license");
builder.endObject();
builder.endObject();
LicensesMetaData metaDataFromXContent = getLicensesMetaDataFromXContent(createParser(builder));
assertThat(metaDataFromXContent.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));

}

public void testLicenseTombstoneWithUsedTrialFromXContext() throws Exception {
    final XContentBuilder builder = XContentFactory.jsonBuilder();
builder.startObject();
builder.startObject("licenses");
builder.nullField("license");
builder.field("trial_license", Version.CURRENT.toString());
builder.endObject();
builder.endObject();
LicensesMetaData metaDataFromXContent = getLicensesMetaDataFromXContent(createParser(builder));
assertThat(metaDataFromXContent.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
assertEquals(metaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}

private static LicensesMetaData getLicensesMetaDataFromXContent(XContentParser parser) throws Exception {
    parser.nextToken(); // consume null
parser.nextToken(); // consume "licenses"
LicensesMetaData licensesMetaDataFromXContent = LicensesMetaData.fromXContent(parser);
parser.nextToken(); // consume endObject
assertThat(parser.nextToken(), nullValue());
return licensesMetaDataFromXContent;
}

@Override
protected NamedXContentRegistry xContentRegistry() {
    return new NamedXContentRegistry(Stream.concat(
        new Licensing(Settings.EMPTY).getNamedXContent().stream(),
        ClusterModule.getNamedXWriteables().stream()
    ).collect(Collectors.toList()));
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPutLicenseAction extends TransportMasterNodeAction<PutLicenseRequest,
PutLicenseResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportPutLicenseAction(Settings settings, TransportService transportService, ClusterService
clusterService,
            LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
            IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, PutLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters,
indexNameExpressionResolver,
    PutLicenseRequest::new);
this.licenseService = licenseService;
}

@Override
protected String executor() {
    return ThreadPool.Names.MANAGEMENT;
}

@Override
protected PutLicenseResponse newResponse() {
    return new PutLicenseResponse();
}

@Override
protected ClusterBlockException checkBlock(PutLicenseRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}

@Override
protected void masterOperation(final PutLicenseRequest request, ClusterState state, final
    ActionListener<PutLicenseResponse> listener) throws ElasticsearchException {
    licenseService.registerLicense(request, listener);
}

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May 22, 2015

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package org.elasticsearch.license.licensor.tools;

import org.elasticsearch.cli.Command;
import org.elasticsearch.cli.CommandTestCase;
import org.elasticsearch.cli.ExitCodes;
import org.elasticsearch.cli.UserException;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.License;
import org.elasticsearch.license.licensor.TestUtils;
import org.junit.Before;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;

public class LicenseGenerationToolTests extends CommandTestCase {

    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
        priKeyPath = getDataPath(TestUtils.PRIVATE_KEY_RESOURCE);
    }

    @Override
    protected Command newCommand() {
        return new LicenseGeneratorTool();
    }

    public void testMissingKeyPaths() throws Exception {
        Path pub = createTempDir().resolve("pub");
        Path pri = createTempDir().resolve("pri");
        UserException e = expectThrows(UserException.class,
                                        () -> execute("--publicKeyPath", pub.toString(),
                                                      "--privateKeyPath", pri.toString()));
        assertTrue(e.getMessage(), e.getMessage().contains("pri does not exist"));
    }
}
assertEquals(ExitCodes.USAGE, e.exitCode);

Files.createFile(pri);
e = expectThrows(
    UserException.class,
    () -> execute(
        "--publicKeyPath",
        pub.toString(),
        "--privateKeyPath",
        pri.toString()));
assertTrue(e.getMessage(), e.getMessage().contains("pub does not exist"));
assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testMissingLicenseSpec() throws Exception {
    UserException e = expectThrows(
        UserException.class,
        () -> execute(
            "--publicKeyPath",
            pubKeyPath.toString(),
            "--privateKeyPath",
            priKeyPath.toString()));
    assertTrue(e.getMessage(), e.getMessage().contains("Must specify either --license or --licenseFile"));
    assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testLicenseSpecString() throws Exception {
    TestUtils.LicenseSpec inputLicenseSpec =
        TestUtils.generateRandomLicenseSpec(License.VERSION_CURRENT);
    String licenseSpecString = TestUtils.generateLicenseSpecString(inputLicenseSpec);
    String output = execute(
        "--publicKeyPath",
        pubKeyPath.toString(),
        "--privateKeyPath",
        priKeyPath.toString(),
        "--license",
        licenseSpecString);
    final BytesArray bytes = new BytesArray(output.getBytes(StandardCharsets.UTF_8));
    License outputLicense = License.fromSource(bytes, XContentType.JSON);
    TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
}

public void testLicenseSpecFile() throws Exception {
    TestUtils.LicenseSpec inputLicenseSpec =
        TestUtils.generateRandomLicenseSpec(License.VERSION_CURRENT);
    String licenseSpecString = TestUtils.generateLicenseSpecString(inputLicenseSpec);
    String output = execute(
        "--publicKeyPath",
        pubKeyPath.toString(),
        "--privateKeyPath",
        priKeyPath.toString(),
        "--license",
        licenseSpecString);
    final BytesArray bytes = new BytesArray(output.getBytes(StandardCharsets.UTF_8));
    License outputLicense = License.fromSource(bytes, XContentType.JSON);
    TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
}
Path licenseSpecFile = createTempFile();
Files.write(licenseSpecFile, licenseSpecString.getBytes(StandardCharsets.UTF_8));
String output = execute(
    "--publicKeyPath",
    pubKeyPath.toString(),
    "--privateKeyPath",
    priKeyPath.toString(),
    "--licenseFile",
    licenseSpecFile.toString());
final BytesArray bytes = new BytesArray(output.getBytes(StandardCharsets.UTF_8));
License outputLicense = License.fromSource(bytes, XContentType.JSON);
TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
}

package org.elasticsearch.license;

import org.elasticsearch.action.support.PlainActionFuture;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;
import static org.hamcrest.Matchers.containsString;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.verify;

public class LicenseFIPSTests extends AbstractLicenseServiceTestCase {

    public void testFIPSCheckWithAllowedLicense() throws Exception {
        License newLicense = TestUtils.generateSignedLicense(randomFrom("trial", "platinum"), TimeValue.timeValueHours(24L));
        PutLicenseRequest request = new PutLicenseRequest();
        request.acknowledge(true);
        request.license(newLicense);
        Settings settings = Settings.builder()
            .put("xpack.security.enabled", true)
            .put("xpack.security.transport.ssl.enabled", true)
            .put("xpack.security.fips_mode.enabled", randomBoolean())
            .build();
        XPackLicenseState licenseState = new XPackLicenseState(settings);
setInitialState(null, licenseState, settings);
licenseService.start();
PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
licenseService.registerLicense(request, responseFuture);
verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

public void testFIPSCheckWithoutAllowedLicense() throws Exception {
    License newLicense = TestUtils.generateSignedLicense(randomFrom("gold", "standard"),
    TimeValue.timeValueHours(24L));
    PutLicenseRequest request = new PutLicenseRequest();
    request.acknowledge(true);
    request.license(newLicense);
    Settings settings = Settings.builder()
        .put("xpack.security.enabled", true)
        .put("xpack.security.transport.ssl.enabled", true)
        .put("xpack.security.fips_mode.enabled", true)
        .build();
    XPackLicenseState licenseState = new XPackLicenseState(settings);
    setInitialState(null, licenseState, settings);
    licenseService.start();
    PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
    IllegalStateException e = expectThrows(IllegalStateException.class, () ->
    licenseService.registerLicense(request, responseFuture));
    assertThat(e.getMessage(),
        containsString("Cannot install a " + newLicense.operationMode() + "" license unless FIPS mode is
disabled");
    licenseService.stop();

    settings = Settings.builder()
        .put("xpack.security.enabled", true)
        .put("xpack.security.transport.ssl.enabled", true)
        .put("xpack.security.fips_mode.enabled", false)
        .build();
    licenseState = new XPackLicenseState(settings);
    setInitialState(null, licenseState, settings);
    licenseService.start();
    licenseService.registerLicense(request, responseFuture);
    verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class GetBasicStatusAction extends Action<GetBasicStatusRequest, GetBasicStatusResponse, GetBasicStatusRequestBuilder> {

    public static final GetBasicStatusAction INSTANCE = new GetBasicStatusAction();
    public static final String NAME = "cluster:admin/xpack/license/basic_status";

    private GetBasicStatusAction() {
        super(NAME);
    }

    @Override
    public GetBasicStatusRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new GetBasicStatusRequestBuilder(client, this);
    }

    @Override
    public GetBasicStatusResponse newResponse() {
        return new GetBasicStatusResponse();
    }
}

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package org.elasticsearch.license.licensor;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.license.DateUtils;
import org.elasticsearch.license.License;
import org.elasticsearch.license.LicenseVerifier;
import org.elasticsearch.license.test.ESTestCase;
import org.junit.After;
import org.junit.Before;

import java.nio.file.Files;
import java.nio.file.Path;

public class LicenseVerificationTests extends ESTestCase {

  protected Path pubKeyPath = null;
  protected Path priKeyPath = null;

  @Before
  public void setup() throws Exception {
    pubKeyPath = getDataPath("/public.key");
    priKeyPath = getDataPath("/private.key");
  }

  @After
  public void cleanUp() {
    pubKeyPath = null;
    priKeyPath = null;
  }

  public void testGeneratedLicenses() throws Exception {
    final TimeValue fortyEightHours = TimeValue.timeValueHours(2 * 24);
    final License license =
        TestUtils.generateSignedLicense(fortyEightHours, pubKeyPath, priKeyPath);
    assertTrue(LicenseVerifier.verifyLicense(license, Files.readAllBytes(pubKeyPath)));
  }

  public void testLicenseTampering() throws Exception {
    final TimeValue twoHours = TimeValue.timeValueHours(2);
    License license = TestUtils.generateSignedLicense(twoHours, pubKeyPath, priKeyPath);
    final License tamperedLicense = License.builder()
        .fromLicenseSpec(license, license.signature())
        .expiryDate(license.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
        .validate()
        .build();
  }
}
assertFalse(LicenseVerifier.verifyLicense(tamperedLicense, Files.readAllBytes(pubKeyPath)));
}

public void testRandomLicenseVerification() throws Exception {
    TestUtils.LicenseSpec licenseSpec = TestUtils.generateRandomLicenseSpec(
            randomIntBetween(License.VERSION_START, License.VERSION_CURRENT));
    License generatedLicense = generateSignedLicense(licenseSpec, pubKeyPath, priKeyPath);
    assertTrue(LicenseVerifier.verifyLicense(generatedLicense, Files.readAllBytes(pubKeyPath)));
}

private static License generateSignedLicense(
    TestUtils.LicenseSpec spec, Path pubKeyPath, Path priKeyPath) throws Exception {
    LicenseVerifier signer = new LicenseVerifier(priKeyPath, pubKeyPath);
    License builder = License.builder()
            .uid(spec.uid)
            .feature(spec.feature)
            .type(spec.type)
            .subscriptionType(spec.subscriptionType)
            .issuedTo(spec.issuedTo)
            .issuer(spec.issuer)
            .maxNodes(spec.maxNodes);

    if (spec.expiryDate != null) {
        builder.expiryDate(DateUtils.endOfTheDay(spec.expiryDate));
    } else {
        builder.expiryDate(spec.expiryDateInMillis);
    }

    if (spec.issueDate != null) {
        builder.issueDate(DateUtils.beginningOfTheDay(spec.issueDate));
    } else {
        builder.issueDate(spec.issueDateInMillis);
    }

    builder.version(spec.version);
    return signer.sign(builder.build());
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.test.ESTestCase;
import static org.elasticsearch.common.unit.TimeValue.timeValueMillis;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.nullValue;

public class ExpirationCallbackTests extends ESTestCase {

    public void testPostExpirationDelay() throws Exception {
        TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
        TimeValue min = TimeValue.timeValueSeconds(1);
        TimeValue max = TimeValue.timeValueSeconds(4);
        TimeValue frequency = TimeValue.timeValueSeconds(1);
        NoopPostExpirationCallback post = new NoopPostExpirationCallback(min, max, frequency);
        long now = System.currentTimeMillis();
        long expiryDate = now + expiryDuration.getMillis();
        assertThat(post.delay(expiryDate, now),
                equalTo(TimeValue.timeValueMillis(expiryDuration.getMillis() + min.getMillis()))); // before license expiry
        assertThat(post.delay(expiryDate, expiryDate), equalTo(min)); // on license expiry
        int latestValidTriggerDelay = (int) (expiryDuration.getMillis() + max.getMillis());
        int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() + min.getMillis());
        assertExpirationCallbackDelay(post, expiryDuration.millis(), latestValidTriggerDelay,
                earliestValidTriggerDelay);
    }

    public void testPreExpirationDelay() throws Exception {
        TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
        TimeValue min = TimeValue.timeValueSeconds(1);
        TimeValue max = TimeValue.timeValueSeconds(4);
        TimeValue frequency = TimeValue.timeValueSeconds(1);
        NoopPreExpirationCallback pre = new NoopPreExpirationCallback(min, max, frequency);
        long now = System.currentTimeMillis();
        long expiryDate = now + expiryDuration.getMillis();
        assertThat(pre.delay(expiryDate, expiryDate), nullValue()); // on license expiry
        int latestValidTriggerDelay = (int) (expiryDuration.getMillis() - min.getMillis());
        int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() - max.getMillis());
        assertExpirationCallbackDelay(pre, expiryDuration.millis(), latestValidTriggerDelay,
                earliestValidTriggerDelay);
    }

    public void testPostExpirationWithNullMax() throws Exception {
        int postExpirySeconds = randomIntBetween(5, 10);
        TimeValue postExpiryDuration = TimeValue.timeValueSeconds(postExpirySeconds);
        TimeValue min = TimeValue.timeValueSeconds(postExpirySeconds - randomIntBetween(1, 3));
        final ExpirationCallback.Post post = new NoopPostExpirationCallback(min, null, timeValueMillis(10));
        long now = System.currentTimeMillis();
        assertThat(post.delay(now - postExpiryDuration.millis(), now), equalTo(TimeValue.timeValueMillis(0)));
    }
}
public void testPreExpirationWithNullMin() throws Exception {
    int expirySeconds = randomIntBetween(5, 10);
    TimeValue expiryDuration = TimeValue.timeValueSeconds(expirySeconds);
    TimeValue max = TimeValue.timeValueSeconds(expirySeconds + randomIntBetween(1, 10));

    final ExpirationCallback.Pre pre = new NoopPreExpirationCallback(null, max, timeValueMillis(10));
    long now = System.currentTimeMillis();
    assertThat(pre.delay(expiryDuration.millis() + now, now), equalTo(TimeValue.timeValueMillis(0)));
}

public void testPreExpirationScheduleTime() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPreExpirationCallback pre = new NoopPreExpirationCallback(min, max, frequency);
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() - min.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() - max.getMillis());
    assertExpirationCallbackScheduleTime(pre, expiryDuration.millis(), latestValidTriggerDelay, earliestValidTriggerDelay);
}

public void testPostExpirationScheduleTime() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPostExpirationCallback pre = new NoopPostExpirationCallback(min, max, frequency);
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() + max.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() + min.getMillis());
    assertExpirationCallbackScheduleTime(pre, expiryDuration.millis(), latestValidTriggerDelay, earliestValidTriggerDelay);
}

private void assertExpirationCallbackDelay(ExpirationCallback expirationCallback, long expiryDuration,
                                            int latestValidTriggerDelay, int earliestValidTriggerDelay) {
    long now = System.currentTimeMillis();
    long expiryDate = now + expiryDuration;
    // bounds
    assertThat(expirationCallback.delay(expiryDate, now + earliestValidTriggerDelay),
        equalTo(TimeValue.timeValueMillis(0)));
    assertThat(expirationCallback.delay(expiryDate, now + latestValidTriggerDelay),
        equalTo(TimeValue.timeValueMillis(0)));
    // in match
    assertThat(expirationCallback.delay(expiryDate, now + randomIntBetween(earliestValidTriggerDelay, latestValidTriggerDelay)),
        equalTo(TimeValue.timeValueMillis(0)));
}
// out of bounds
int deltaBeforeEarliestMatch = between(1, earliestValidTriggerDelay);
assertThat(expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch),
    equalTo(TimeValue.timeValueMillis(earliestValidTriggerDelay - deltaBeforeEarliestMatch)));
int deltaAfterLatestMatch = between(latestValidTriggerDelay + 1, Integer.MAX_VALUE); // after expiry and after max
assertThat(expirationCallback.delay(expiryDate, expiryDate + deltaAfterLatestMatch), nullValue());
}

public void assertExpirationCallbackScheduleTime(ExpirationCallback expirationCallback, long expiryDuration,
    int latestValidTriggerDelay, int earliestValidTriggerDelay) {
long now = System.currentTimeMillis();
long expiryDate = now + expiryDuration;
int validTriggerInterval = between(earliestValidTriggerDelay, latestValidTriggerDelay);
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate,
    now + validTriggerInterval, now + validTriggerInterval),
    equalTo(now + validTriggerInterval));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + validTriggerInterval),
    equalTo(now + validTriggerInterval + expirationCallback.getFrequency()));

int deltaBeforeEarliestMatch = between(1, earliestValidTriggerDelay - 1);
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now +
    deltaBeforeEarliestMatch),
    equalTo(now + deltaBeforeEarliestMatch +
        expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch).getMillis()));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now + deltaBeforeEarliestMatch, now + deltaBeforeEarliestMatch),
    equalTo(now + deltaBeforeEarliestMatch +
        expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch).getMillis()));

int deltaAfterLatestMatch = between(latestValidTriggerDelay + 1, Integer.MAX_VALUE); // after expiry and after max
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + deltaAfterLatestMatch),
    equalTo(-1L));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now + deltaAfterLatestMatch, now + deltaAfterLatestMatch),
    equalTo(-1L));
}

private static class NoopPostExpirationCallback extends ExpirationCallback.Post {

    NoopPostExpirationCallback(TimeValue min, TimeValue max, TimeValue frequency) {
        super(min, max, frequency);
    }

    @Override
    public void on(License license) {}
}
private static class NoopPreExpirationCallback extends ExpirationCallback.Pre {
    NoopPreExpirationCallback(TimeValue min, TimeValue max, TimeValue frequency) {
        super(min, max, frequency);
    }

    @Override
    public void on(License license) {}
}

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package org.elasticsearch.license;

import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.core.internal.ioStreams;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.security.InvalidKeyException;
import java.security.NoSuchAlgorithmException;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Arrays;
import java.util.Base64;
import java.util.Collections;

public class LicenseVerifier {

    /**
     * Responsible for verifying signed licenses
     */
    public class LicenseVerifier {

        /**
         * verifies the license content with the signature using the packaged
         * public key
         * @param license to verify
         */
        public void verifyLicense(License license) {
            // Implementation...
        }
    }
}
* @return true if valid, false otherwise
*/

public static boolean verifyLicense(final License license, byte[] publicKeyData) {
  byte[] signedContent = null;
  byte[] publicKeyFingerprint = null;
  try {
    byte[] signatureBytes = Base64.getDecoder().decode(license.signature());
    ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
    int version = byteBuffer.getInt();
    int magicLen = byteBuffer.getInt();
    byte[] magic = new byte[magicLen];
    byteBuffer.get(magic);
    int hashLen = byteBuffer.getInt();
    publicKeyFingerprint = new byte[hashLen];
    byteBuffer.get(publicKeyFingerprint);
    int signedContentLen = byteBuffer.getInt();
    signedContent = new byte[signedContentLen];
    byteBuffer.get(signedContent);
    XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(contentBuilder, new
    ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
    Signature rsa = Signature.getInstance("SHA512withRSA");
    rsa.initVerify(CryptUtils.readPublicKey(publicKeyData));
    BytesRefIterator iterator = BytesReference.bytes(contentBuilder).iterator();
    BytesRef ref;
    while((ref = iterator.next()) != null) {
      rsa.update(ref.bytes, ref.offset, ref.length);
    }
    return rsa.verify(signedContent);
  } catch (IOException | NoSuchAlgorithmException | SignatureException | InvalidKeyException e) {
    throw new IllegalStateException(e);
  } finally {
    if (signedContent != null) {
      Arrays.fill(signedContent, (byte) 0);
    }
  }
}

public static boolean verifyLicense(final License license) {
  final byte[] publicKeyBytes;
  try (InputStream is = LicenseVerifier.class.getResourceAsStream("/public.key")) {
    ByteArrayOutputStream out = new ByteArrayOutputStream();
    Streams.copy(is, out);
    publicKeyBytes = out.toByteArray();
  } catch (IOException ex) {
    throw new IllegalStateException(ex);
  }
  return verifyLicense(license, publicKeyBytes);
}
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The code for the t-digest was originally authored by Ted Dunning

A number of small but very helpful changes have been contributed by Adrien Grand (https://github.com/jpountz)
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*/
package org.elasticsearch.license.licensor.tools;

import org.elasticsearch.cli.Command;
import org.elasticsearch.cli.CommandTestCase;
import org.elasticsearch.cli.ExitCodes;
import org.elasticsearch.cli.UserException;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.license.License;
import org.elasticsearch.license.licensor.TestUtils;
import org.junit.Before;
public class LicenseVerificationToolTests extends CommandTestCase {
    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        logger.error("project.basedir \[\{}\]", System.getProperty("project.basedir"));
        pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
        priKeyPath = getDataPath(TestUtils.PRIVATE_KEY_RESOURCE);
    }

    @Override
    protected Command newCommand() {
        return new LicenseVerificationTool();
    }

    public void testMissingKeyPath() throws Exception {
        Path pub = createTempDir().resolve("pub");
        UserException e = expectThrows(
            UserException.class,
            () -> execute("--publicKeyPath", pub.toString()));
        assertTrue(e.getMessage(), e.getMessage().contains("pub does not exist");
        assertEquals(ExitCodes.USAGE, e.exitCode);
    }

    public void testMissingLicenseSpec() throws Exception {
        UserException e = expectThrows(UserException.class, () -> {
            execute("--publicKeyPath", pubKeyPath.toString());
        });
        assertTrue(e.getMessage(), e.getMessage().contains("Must specify either --license or --licenseFile");
        assertEquals(ExitCodes.USAGE, e.exitCode);
    }

    public void testBrokenLicense() throws Exception {
        final TimeValue oneHour = TimeValue.timeValueHours(1);
        License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
        License tamperedLicense = License.builder()
            .fromLicenseSpec(signedLicense, signedLicense.signature())
            .expiryDate(signedLicense.expiryDate() + randomIntBetween(1, 1000)).build();
        UserException e = expectThrows(
            UserException.class,
            () -> execute(}
public void testLicenseSpecString() throws Exception {
    final TimeValue oneHour = TimeValue.timeValueHours(1);
    License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
    String output = execute(
        "--publicKeyPath",
        pubKeyPath.toString(),
        "--license",
        TestUtils.dumpLicense(signedLicense));
    assertFalse(output, output.isEmpty());
}

public void testLicenseSpecFile() throws Exception {
    final TimeValue oneHour = TimeValue.timeValueHours(1);
    License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
    Path licenseSpecFile = createTempFile();
    Files.write(
        licenseSpecFile,
        TestUtils.dumpLicense(signedLicense).getBytes(StandardCharsets.UTF_8));
    String output = execute(
        "--publicKeyPath",
        pubKeyPath.toString(),
        "--licenseFile",
        licenseSpecFile.toString());
    assertFalse(output, output.isEmpty());
}
import static org.elasticsearch.common.unit.TimeValue.timeValueHours;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;

public class LicensesAcknowledgementTests extends AbstractLicenseServiceTestCase {

    public void testAcknowledgment() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(TestUtils.generateSignedLicense("gold", timeValueHours(2)), licenseState, Settings.EMPTY);
        licenseService.start();
        // try installing a signed license
        long issueDate = System.currentTimeMillis() - TimeValue.timeValueHours(24 * 2).getMillis();
        License signedLicense = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, issueDate,
                timeValueHours(10));
        PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
        // ensure acknowledgement message was part of the response
        licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
                LicensesStatus.VALID, true));
        assertThat(licenseService.getLicense(), not(signedLicense));
        verify(clusterService, times(0)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

        // try installing a signed license with acknowledgement
        putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
        // ensure license was installed and no acknowledgement message was returned
        licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true,
                LicensesStatus.VALID, false));
        verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    }

    public void testRejectUpgradeToProductionWithoutTLS() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.EMPTY);
        licenseService.start();
        // try installing a signed license
        License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
        PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
        // ensure acknowledgement message was part of the response
        IllegalStateException ise = expectThrows(IllegalStateException.class, () ->
                licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
                        LicensesStatus.VALID, true)));
        assertEquals("Cannot install a [PLATINUM] license unless TLS is configured or security is disabled",
                ise.getMessage());
    }
}
public void testUpgradeToProductionWithoutTLSAndSecurityDisabled() throws Exception {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.builder()
        .put("xpack.security.enabled", false).build());
    licenseService.start();
    // try installing a signed license
    License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
        LicensesStatus.VALID, true));
    assertThat(licenseService.getLicense(), not(signedLicense));
    verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

    // try installing a signed license with acknowledgement
    putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
    // ensure license was installed and no acknowledgement message was returned
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true,
        LicensesStatus.VALID, false));
    verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

public void testUpgradeToProductionWithTLSAndSecurity() throws Exception {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.builder()
        .put("xpack.security.enabled", true)
        .put("xpack.security.transport.ssl.enabled", true).build());
    licenseService.start();
    // try installing a signed license
    License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
        LicensesStatus.VALID, true));
    assertThat(licenseService.getLicense(), not(signedLicense));
    verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

    // try installing a signed license with acknowledgement
    putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
    // ensure license was installed and no acknowledgement message was returned
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true,
        LicensesStatus.VALID, false));
    verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

private static class AssertingLicensesUpdateResponse implements ActionListener<PutLicenseResponse> {
    private final boolean expectedAcknowledgement;
    private final LicensesStatus expectedStatus;
    private final boolean expectAckMessages;
    
    private static class AssertingLicensesUpdateResponse implements ActionListener<PutLicenseResponse> {
        private final boolean expectedAcknowledgement;
        private final LicensesStatus expectedStatus;
        private final boolean expectAckMessages;
    }
AssertingLicensesUpdateResponse(boolean expectedAcknowledgement, LicensesStatus expectedStatus,
boolean expectAckMessages) {
    this.expectedAcknowledgement = expectedAcknowledgement;
    this.expectedStatus = expectedStatus;
    this.expectAckMessages = expectAckMessages;
}

@Override
public void onResponse(PutLicenseResponse licensesUpdateResponse) {
    assertThat(licensesUpdateResponse.isAcknowledged(), equalTo(expectedAcknowledgement));
    assertThat(licensesUpdateResponse.status(), equalTo(expectedStatus));
    assertEquals(licensesUpdateResponse.acknowledgeMessages().isEmpty(), expectAckMessages == false);
}

@Override
public void onFailure(Exception throwable) {
    throw new RuntimeException(throwable);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.rest.RestStatus;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

class PostStartTrialResponse extends ActionResponse {

    // Nodes Prior to 6.3 did not have NEED_ACKNOWLEDGEMENT as part of status
    enum Pre63Status {
        UPGRADED_TO_TRIAL,
        TRIAL_ALREADY_ACTIVATED;
    }

    enum Status {
        UPGRADED_TO_TRIAL(true, null, RestStatus.OK),
        TRIAL_ALREADY_ACTIVATED(false, "Operation failed: Trial was already activated.");
    }

    import java.io.IOException;
    import java.util.Collections;
    import java.util.HashMap;
    import java.util.Map;
    class PostStartTrialResponse extends ActionResponse {

        // Nodes Prior to 6.3 did not have NEED_ACKNOWLEDGEMENT as part of status
        enum Pre63Status {
            UPGRADED_TO_TRIAL,
            TRIAL_ALREADY_ACTIVATED;
        }

        enum Status {
            UPGRADED_TO_TRIAL(true, null, RestStatus.OK),
            TRIAL_ALREADY_ACTIVATED(false, "Operation failed: Trial was already activated.");
        }
    }
private final boolean isTrialStarted;

private final String errorMessage;
private final RestStatus restStatus;
Status(boolean isTrialStarted, String errorMessage, RestStatus restStatus) {
    this.isTrialStarted = isTrialStarted;
    this.errorMessage = errorMessage;
    this.restStatus = restStatus;
}

boolean isTrialStarted() {
    return isTrialStarted;
}

String getErrorMessage() {
    return errorMessage;
}

RestStatus getRestStatus() {
    return restStatus;
}

private Status status;
private Map<String, String[]> acknowledgeMessages;
private String acknowledgeMessage;
PostStartTrialResponse() {
}

PostStartTrialResponse(Status status) {
    this(status, Collections.emptyMap(), null);
}

PostStartTrialResponse(Status status, Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}
@Override
public void readFrom(StreamInput in) throws IOException {
    status = in.readEnum(Status.class);
    if (in.getVersion().onOrAfter(Version.V_6_3_0)) {
        acknowledgeMessage = in.readOptionalString();
        int size = in.readVInt();
        Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
        for (int i = 0; i < size; i++) {
            String feature = in.readString();
            int nMessages = in.readVInt();
            String[] messages = new String[nMessages];
            for (int j = 0; j < nMessages; j++) {
                messages[j] = in.readString();
            }
            acknowledgeMessages.put(feature, messages);
        }
        this.acknowledgeMessages = acknowledgeMessages;
    } else {
        this.acknowledgeMessages = Collections.emptyMap();
    }
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    Version version = Version.V_6_3_0;
    if (out.getVersion().onOrAfter(version)) {
        out.writeEnum(status);
        out.writeOptionalString(acknowledgeMessage);
        out.writeVInt(acknowledgeMessages.size());
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            out.writeString(entry.getKey());
            out.writeVInt(entry.getValue().length);
            for (String message : entry.getValue()) {
                out.writeString(message);
            }
        }
    } else {
        if (status == Status.UPGRADED_TO_TRIAL) {
            out.writeEnum(Pre63Status.UPGRADED_TO_TRIAL);
        } else if (status == Status.TRIAL_ALREADY_ACTIVATED) {
            out.writeEnum(Pre63Status.TRIAL_ALREADY_ACTIVATED);
        } else {
            throw new IllegalArgumentException("Starting trial on node with version [" + Version.CURRENT + "] requires "+
                "acknowledgement parameter.");
        }
    }
}
Map<String, String[]> getAcknowledgementMessages() {
    return acknowledgeMessages;
}

String getAcknowledgementMessage() {
    return acknowledgeMessage;
}

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```java
package org.elasticsearch.license;

import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.watcher.FileWatcher;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.junit.Before;
import java.nio.file.Path;
import static org.hamcrest.Matchers.equalTo;
import static org.mockito.Matchers.any;
import static org.mockito.Matchers.eq;
import static org.mockito.Mockito.mock;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.verifyZeroInteractions;

public class LicenseOperationModeUpdateTests extends ESTestCase {

    private OperationModeFileWatcher operationModeFileWatcher;
    private Path licenseModeFile;
    private ResourceWatcherService resourceWatcherService;

    @Before
    public void init() throws Exception {
        licenseModeFile = createTempFile();
        resourceWatcherService = mock(ResourceWatcherService.class);
        operationModeFileWatcher = new OperationModeFileWatcher(resourceWatcherService, licenseModeFile, logger, () -> {});
    }
}
```
public void testLicenseOperationModeUpdate() throws Exception {
    String type = randomFrom("trial", "basic", "standard", "gold", "platinum");
    License license = License.builder()
        .uid("id")
        .expiryDate(0)
        .issueDate(0)
        .issuedTo("elasticsearch")
        .issuer("issuer")
        .type(type)
        .maxNodes(1)
        .build();

    assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type)));
    OperationModeFileWatcherTests.writeMode("gold", licenseModeFile);
    license.setOperationModeFileWatcher(operationModeFileWatcher);
    verifyZeroInteractions(resourceWatcherService);
    assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type)));
}

public void testCloudInternalLicenseOperationModeUpdate() throws Exception {
    License license = License.builder()
        .uid("id")
        .expiryDate(0)
        .issueDate(0)
        .issuedTo("elasticsearch")
        .issuer("issuer")
        .type("cloud_internal")
        .maxNodes(1)
        .build();

    assertThat(license.operationMode(), equalTo(License.OperationMode.PLATINUM));
    OperationModeFileWatcherTests.writeMode("gold", licenseModeFile);
    license.setOperationModeFileWatcher(operationModeFileWatcher);
    verify(resourceWatcherService, times(1)).add(any(FileWatcher.class),
        eq(ResourceWatcherService.Frequency.HIGH));
    assertThat(license.operationMode(), equalTo(License.OperationMode.GOLD));
}

package org.elasticsearch.license;
import org.elasticsearch.common.settings.Settings;

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import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.action.RestToXContentListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.POST;
import static org.elasticsearch.rest.RestRequest.Method.PUT;

public class RestPutLicenseAction extends XPackRestHandler {
    public RestPutLicenseAction(Settings settings, RestController controller) {
        super(settings);
        // @deprecated Remove deprecations in 6.0
        controller.registerWithDeprecatedHandler(POST, URI_BASE + "/license", this,
                                                POST, "/_license", deprecationLogger);
        controller.registerWithDeprecatedHandler(PUT, URI_BASE + "/license", this,
                                                PUT, "/_license", deprecationLogger);

        // Remove _licenses support entirely in 6.0
        controller.registerAsDeprecatedHandler(POST, "/_licenses", this,
                                                "[POST /_licenses] is deprecated! Use "+
                                                "[POST /_xpack/license] instead.",
                                                deprecationLogger);
        controller.registerAsDeprecatedHandler(PUT, "/_licenses", this,
                                                "[PUT /_licenses] is deprecated! Use "+
                                                "[PUT /_xpack/license] instead.",
                                                deprecationLogger);
    }

    @Override
    public String getName() {
        return "xpack_put_license_action";
    }

    @Override
    public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws IOException {
        if (request.hasContent() == false) {
            throw new IllegalArgumentException("The license must be provided in the request body");
        }
        PutLicenseRequest putLicenseRequest = new PutLicenseRequest();
        putLicenseRequest.license(request.content(), request.getXContentType());
        putLicenseRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
        putLicenseRequest.timeout(request.paramAsTime("timeout", putLicenseRequest.timeout()));
        putLicenseRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
                                                                  putLicenseRequest.masterNodeTimeout()));
    }
}
if ("basic".equals(putLicenseRequest.license().type())) {
    throw new IllegalArgumentException("Installing basic licenses is no longer allowed. Use the POST " +
            "/_xpack/license/start_basic API to install a basic license that does not expire.");
}

return channel -> client.es().admin().cluster().execute(PutLicenseAction.INSTANCE, putLicenseRequest,
            new RestToXContentListener<>((channel));
}

package org.elasticsearch.license.licensor;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.time.DateMathParser;

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import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.time.DateMathParser;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.license.DateUtils;
import org.elasticsearch.license.License;
import org.elasticsearch.test.ESTestCase;
import org.hamcrest.MatcherAssert;
import org.joda.time.format.DateTimeFormatter;
import java.io.IOException;
import java.nio.file.Path;
import java.util.UUID;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomBoolean;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomInt;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomIntBetween;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.ESTestCase.randomFrom;
import static org.hamcrest.core.IsEqual.equalTo;
public class TestUtils {

    public static final String PUBLIC_KEY_RESOURCE = "/public.key";
    public static final String PRIVATE_KEY_RESOURCE = "/private.key";

    private static final FormatDateTimeFormatter formatDateTimeFormatter = Joda.forPattern("yyyy-MM-dd");
    private static final DateMathParser dateMathParser = formatDateTimeFormatter.toDateMathParser();
    private static final DateTimeFormatter dateTimeFormatter = formatDateTimeFormatter.printer();

    public static String dumpLicense(License license) throws Exception {
        XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
        builder.startObject();
        builder.startObject("license");
        license.toInnerXContent(builder, ToXContent.EMPTY_PARAMS);
        builder.endObject();
        builder.endObject();
        return Strings.toString(builder);
    }

    public static String dateMathString(String time, final long now) {
        return dateTimeFormatter.print(dateMathParser.parse(time, () -> now));
    }

    public static long dateMath(String time, final long now) {
        return dateMathParser.parse(time, () -> now);
    }
}
public static LicenseSpec generateRandomLicenseSpec(int version) {
    boolean datesInMillis = randomBoolean();
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    String issuer = "issuer__" + randomInt();
    String issuedTo = "issuedTo__" + randomInt();
    String type = version < License.VERSION_NO_FEATURE_TYPE ?
        randomFrom("subscription", "internal", "development") :
        randomFrom("basic", "silver", "dev", "gold", "platinum");
    final String subscriptionType;
    final String feature;
    if (version < License.VERSION_NO_FEATURE_TYPE) {
        subscriptionType = randomFrom("gold", "silver", "platinum");
        feature = "feature__" + randomInt();
    } else {
        subscriptionType = null;
        feature = null;
    }
    int maxNodes = randomIntBetween(5, 100);
    if (datesInMillis) {
        long issueDateInMillis = dateMath("now", now);
        long expiryDateInMillis = dateMath("now+10d/d", now);
        return new LicenseSpec(
            version,
            uid,
            feature,
            issueDateInMillis,
            expiryDateInMillis,
            type,
            subscriptionType,
            issuedTo,
            issuer,
            maxNodes);
    } else {
        String issueDate = dateMathString("now", now);
        String expiryDate = dateMathString("now+10d/d", now);
        return new LicenseSpec(
            version,
            uid,
            feature,
            issueDate,
            expiryDate, type,
            subscriptionType,
            issuedTo,
            issuer,
            maxNodes);
    }
}
public static String generateLicenseSpecString(LicenseSpec licenseSpec) throws IOException {
    XContentBuilder licenses = jsonBuilder();
    licenses.startObject();
    licenses.startObject("license")
        .field("uid", licenseSpec.uid)
        .field("type", licenseSpec.type)
        .field("subscription_type", licenseSpec.subscriptionType)
        .field("issued_to", licenseSpec.issuedTo)
        .field("issuer", licenseSpec.issuer)
        .field("feature", licenseSpec.feature)
        .field("max_nodes", licenseSpec.maxNodes);
    if (licenseSpec.issueDate != null) {
        licenses.field("issue_date", licenseSpec.issueDate);
    } else {
        licenses.field("issue_date_in_millis", licenseSpec.issueDateInMillis);
    }
    if (licenseSpec.expiryDate != null) {
        licenses.field("expiry_date", licenseSpec.expiryDate);
    } else {
        licenses.field("expiry_date_in_millis", licenseSpec.expiryDateInMillis);
    }
    licenses.field("version", licenseSpec.version);
    licenses.endObject();
    licenses.endObject();
    return Strings.toString(licenses);
}

public static void assertLicenseSpec(LicenseSpec spec, License license) {
    MatcherAssert.assertThat(license.uid(), equalTo(spec.uid));
    MatcherAssert.assertThat(license.issuedTo(), equalTo(spec.issuedTo));
    MatcherAssert.assertThat(license.issuer(), equalTo(spec.issuer));
    MatcherAssert.assertThat(license.type(), equalTo(spec.type));
    MatcherAssert.assertThat(license.maxNodes(), equalTo(spec.maxNodes));
    if (spec.issueDate != null) {
        MatcherAssert.assertThat(
            license.issueDate(),
            equalTo(DateUtils.beginningOfTheDay(spec.issueDate)));
    } else {
        MatcherAssert.assertThat(license.issueDate(), equalTo(spec.issueDateInMillis));
    }
    if (spec.expiryDate != null) {
        MatcherAssert.assertThat(
            license.expiryDate(),
            equalTo(DateUtils.endOfTheDay(spec.expiryDate)));
    } else {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(spec.expiryDateInMillis));
    }
}
public static License generateSignedLicense(
    TimeValue expiryDuration, Path pubKeyPath, Path priKeyPath) throws Exception {
    long issue = System.currentTimeMillis();
    int version = ESTestCase.randomIntBetween(License.VERSION_START, License.VERSION_CURRENT);
    String type = version < License.VERSION_NO_FEATURE_TYPE ?
        randomFrom("subscription", "internal", "development") :
        randomFrom("trial", "basic", "silver", "dev", "gold", "platinum");
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .expiryDate(issue + expiryDuration.getMillis())
        .issueDate(issue)
        .version(version)
        .type(type)
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    if (version == License.VERSION_START) {
        builder.subscriptionType(randomFrom("dev", "gold", "platinum", "silver"));
        builder.feature(ESTestCase.randomAlphaOfLength(10));
    }
    LicenseSigner signer = new LicenseSigner(priKeyPath, pubKeyPath);
    return signer.sign(builder.build());
}

public static class LicenseSpec {
    public final int version;
    public final String feature;
    public final String issueDate;
    public final long issueDateInMillis;
    public final String expiryDate;
    public final long expiryDateInMillis;
    public final String uid;
    public final String type;
    public final String subscriptionType;
    public final String issuedTo;
    public final String issuer;
    public final int maxNodes;

    public LicenseSpec(
        int version,
        String uid,
        String feature,
        long issueDateInMillis,
long expiryDateInMillis,
String type,
String subscriptionType,
String issuedTo,
String issuer,
int maxNodes) {
this.version = version;
this.feature = feature;
this.issueDateInMillis = issueDateInMillis;
this.issueDate = null;
this.expiryDateInMillis = expiryDateInMillis;
this.expiryDate = null;
this.uid = uid;
this.type = type;
this.subscriptionType = subscriptionType;
this.issuedTo = issuedTo;
this.issuer = issuer;
this.maxNodes = maxNodes;
}

public LicenseSpec(
    int version,
    String uid,
    String feature,
    String issueDate,
    String expiryDate,
    String type,
    String subscriptionType,
    String issuedTo,
    String issuer,
    int maxNodes) {
this.version = version;
this.feature = feature;
this.issueDate = issueDate;
this.issueDateInMillis = -1;
this.expiryDate = expiryDate;
this.expiryDateInMillis = -1;
this.uid = uid;
this.type = type;
this.subscriptionType = subscriptionType;
this.issuedTo = issuedTo;
this.issuer = issuer;
this.maxNodes = maxNodes;
}
}
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.threadpool.TestThreadPool;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.junit.After;
import org.junit.Before;
import java.io.IOException;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardOpenOption;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicReference;
import static org.hamcrest.Matchers.equalTo;

public class OperationModeFileWatcherTests extends ESTestCase {

    private ResourceWatcherService watcherService;
    private TestThreadPool threadPool;
    private Path licenseModePath;
    private OperationModeFileWatcher operationModeFileWatcher;
    private AtomicReference<CountDownLatch> onChangeCounter;

    @Before
    public void setup() throws Exception {
        threadPool = new TestThreadPool("license mode file watcher tests");
        Settings settings = Settings.builder()
                .put("resource.reload.interval.high", "10ms")
                .build();
        watcherService = new ResourceWatcherService(settings,
                threadPool);
        watcherService.start();
        licenseModePath = createTempFile();
        onChangeCounter = new AtomicReference<>(new CountDownLatch(1));
        operationModeFileWatcher = new OperationModeFileWatcher(watcherService, licenseModePath, logger,
                () -> onChangeCounter.get().countDown());
    }

    @After
    public void teardown() {
       (operationModeFileWatcher != null) && operationModeFileWatcher.close();
        onChangeCounter = null;
        operationModeFileWatcher = null;
        licenseModePath = null;
        watcherService = null;
        threadPool = null;
    }

    public static void main(String[] args) {
        OperationModeFileWatcherTests test = new OperationModeFileWatcherTests();
        test.runTest();
    }

    @Test
    public void testOperationModeWatcher() {
        try {
            Files.write(licenseModePath, "test", StandardCharsets.UTF_8);
            CountDownLatch latch = new CountDownLatch(1);
            onChangeCounter.set(latch);
            operationModeFileWatcher.start();
            latch.await();
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
public void shutdown() throws InterruptedException {
    terminate(threadPool);
    watcherService.stop();
}

public void testInit() throws Exception {
    onChangeCounter.set(new CountDownLatch(2));
    writeMode("gold");
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.init();
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.GOLD));
}

public void testUpdateModeFromFile() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.PLATINUM));
    writeMode("gold");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.GOLD));
    onChangeCounter.set(new CountDownLatch(1));
    writeMode("basic");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.BASIC));
}

public void testDeleteModeFromFile() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    writeMode("gold");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.GOLD));
    onChangeCounter.set(new CountDownLatch(1));
    Files.delete(licenseModePath);
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.PLATINUM));
}

public void testInvalidModeFromFile() throws Exception {
    writeMode("invalid");
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.PLATINUM));
}
public void testLicenseModeFileIsDirectory() throws Exception {
    licenseModePath = createTempDir();
    operationModeFileWatcher.init();
    operationModeFileWatcher.onFileChanged(licenseModePath);
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
                equalTo(License.OperationMode.PLATINUM));
}

public void testLicenseModeFileCreatedAfterInit() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    operationModeFileWatcher.onFileChanged(licenseModePath);
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
                equalTo(License.OperationMode.PLATINUM));
    onChangeCounter.set(new CountDownLatch(1));
    Path tempFile = createTempFile();
    writeMode("gold", tempFile);
    licenseModePath = tempFile;
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
}

private void writeMode(String mode) throws IOException {
    writeMode(mode, licenseModePath);
}

static void writeMode(String mode, Path file) throws IOException {
    Files.write(file, mode.getBytes(StandardCharsets.UTF_8), StandardOpenOption.CREATE);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;

public class GetTrialStatusRequest extends MasterNodeReadRequest<GetTrialStatusRequest> {
public GetTrialStatusRequest() {
}

@Override
public ActionRequestValidationException validate() {
    return null;
}

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```
es.logger.level=INFO
log4j.rootLogger=${es.logger.level}, out

log4j.logger.org.apache.http=INFO, out
log4j.additivity.org.apache.http=false

log4j.logger.org.elasticsearch.license=TRACE

log4j.appender.out=org.apache.log4j.ConsoleAppender
log4j.appender.out.layout=org.apache.log4j.PatternLayout
log4j.appender.out.layout.conversionPattern=[%d{ISO8601}][%-5p][%-25c] %m%n
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 * or more contributor license agreements. Licensed under the Elastic License;
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 */
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.test.ESTestCase;

import java.util.Arrays;
import static org.hamcrest.Matchers.contains;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.hasSize;
```
public class LicenseUtilsTests extends ESTestCase {

    public void testNewExpirationException() {
        for (String feature : Arrays.asList("feature", randomAlphaOfLength(5), null, "")) {
            ElasticsearchSecurityException exception = LicenseUtils.newComplianceException(feature);
            assertNotNull(exception);
            assertThat(exception.getMetadataKeys(), contains(LicenseUtils.EXPIRED_FEATURE_METADATA));
            assertThat(exception.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasSize(1));
            assertThat(exception.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA).iterator().next(),
                       equalTo(feature));
        }
    }

    public void testIsLicenseExpiredException() {
        ElasticsearchSecurityException exception = LicenseUtils.newComplianceException("feature");
        assertTrue(LicenseUtils.isLicenseExpiredException(exception));

        exception = new ElasticsearchSecurityException("msg");
        assertFalse(LicenseUtils.isLicenseExpiredException(exception));
    }

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    package org.elasticsearch.license;
    import org.elasticsearch.action.ActionListener;
    import org.elasticsearch.action.support.master.AcknowledgedResponse;
    import org.elasticsearch.client.ElasticsearchClient;
    import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;
    import org.elasticsearch.protocol.xpack.license.GetLicenseRequest;
    import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;

    public class LicensingClient {

        private final ElasticsearchClient client;

        public LicensingClient(ElasticsearchClient client) {
            this.client = client;
        }

        public PutLicenseRequestBuilder preparePutLicense(License license) {
            return new PutLicenseRequestBuilder(client).setLicense(license);
        }

        public void putLicense(PutLicenseRequest request, ActionListener<PutLicenseResponse> listener) {
            // Method implementation
        }
    }
}
client.execute(PutLicenseAction.INSTANCE, request, listener);
}

public GetLicenseRequestBuilder prepareGetLicense() {
    return new GetLicenseRequestBuilder(client);
}

public void getLicense(GetLicenseRequest request, ActionListener<GetLicenseResponse> listener) {
    client.execute(GetLicenseAction.INSTANCE, request, listener);
}

public DeleteLicenseRequestBuilder prepareDeleteLicense() {
    return new DeleteLicenseRequestBuilder(client);
}

public void deleteLicense(DeleteLicenseRequest request, ActionListener<AcknowledgedResponse> listener) {
    client.execute(DeleteLicenseAction.INSTANCE, request, listener);
}

public PostStartTrialRequestBuilder preparePostStartTrial() {
    return new PostStartTrialRequestBuilder(client, PostStartTrialAction.INSTANCE);
}

public GetTrialStatusRequestBuilder prepareGetStartTrial() {
    return new GetTrialStatusRequestBuilder(client, GetTrialStatusAction.INSTANCE);
}

public void postStartTrial(PostStartTrialRequest request, ActionListener<PostStartTrialResponse> listener) {
    client.execute(PostStartTrialAction.INSTANCE, request, listener);
}

public void postStartBasic(PostStartBasicRequest request, ActionListener<PostStartBasicResponse> listener) {
    client.execute(PostStartBasicAction.INSTANCE, request, listener);
}

public PostStartBasicRequestBuilder preparePostStartBasic() {
    return new PostStartBasicRequestBuilder(client, PostStartBasicAction.INSTANCE);
}

public GetBasicStatusRequestBuilder prepareGetStartBasic() {
    return new GetBasicStatusRequestBuilder(client, GetBasicStatusAction.INSTANCE);
}

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* /
package org.elasticsearch.license;

import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentHelper;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
import java.nio.charset.StandardCharsets;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;
import static org.hamcrest.core.IsEqual.equalTo;
import static org.hamcrest.core.IsNull.notNullValue;
import static org.hamcrest.core.IsNull.nullValue;

public class LicenseSerializationTests extends ESTestCase {
    public void testSimpleIssueExpiryDate() throws Exception {
        long now = System.currentTimeMillis();
        String issueDate = TestUtils.dateMathString("now", now);
        String expiryDate = TestUtils.dateMathString("now+10d/d", now);
        String licenseSpecs = TestUtils.generateLicenseSpecString(new TestUtils.LicenseSpec(issueDate, expiryDate));
        License generatedLicense = License.fromSource(new BytesArray(licenseSpecs.getBytes(StandardCharsets.UTF_8)), XContentType.JSON);
        assertThat(generatedLicense.issueDate(), equalTo(DateUtils.beginningOfTheDay(issueDate)));
        assertThat(generatedLicense.expiryDate(), equalTo(DateUtils.endOfTheDay(expiryDate)));
    }

    public void testLicensesFields() throws Exception {
        TestUtils.LicenseSpec randomLicenseSpec =
            TestUtils.generateRandomLicenseSpec(License.VERSION_START);
        String licenseSpecsSource = TestUtils.generateLicenseSpecString(randomLicenseSpec);
        final License fromSource =
            License.fromSource(new BytesArray(licenseSpecsSource.getBytes(StandardCharsets.UTF_8)), XContentType.JSON);
        TestUtils.assertLicenseSpec(randomLicenseSpec, fromSource);
    }

    public void testLicenseRestView() throws Exception {
        long now = System.currentTimeMillis();
        String expiredLicenseExpiryDate = TestUtils.dateMathString("now-1d/d", now);
        String validLicenseIssueDate = TestUtils.dateMathString("now-10d/d", now);
    }
}
String invalidLicenseIssueDate = TestUtils.dateMathString("now+1d/d", now);
String validLicenseExpiryDate = TestUtils.dateMathString("now+2d/d", now);

License license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(validLicenseIssueDate, expiredLicenseExpiryDate));
XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, new ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
builder.flush();
Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
// should have an extra status field, human readable issue_data and expiry_date
assertThat(map.get("status"), notNullValue());
assertThat(map.get("issue_date"), notNullValue());
assertThat(map.get("expiry_date"), notNullValue());
assertThat(map.get("status"), equalTo("expired"));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
assertThat(map.get("status"), nullValue());
license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(validLicenseIssueDate, validLicenseExpiryDate));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, new ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
// should have an extra status field, human readable issue_data and expiry_date
assertThat(map.get("status"), notNullValue());
assertThat(map.get("issue_date"), notNullValue());
assertThat(map.get("expiry_date"), notNullValue());
assertThat(map.get("status"), equalTo("active"));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
assertThat(map.get("status"), nullValue());
license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(invalidLicenseIssueDate, validLicenseExpiryDate));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, new ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();

// should have an extra status field, human readable issue_data and expiry_date
assertThat(map.get("status"), notNullValue());
assertThat(map.get("issue_date"), notNullValue());
assertThat(map.get("expiry_date"), notNullValue());
assertThat(map.get("status"), equalTo("invalid"));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
assertThat(map.get("status"), nullValue());
}

public void testLicenseRestViewNonExpiringBasic() throws Exception {
    long now = System.currentTimeMillis();

    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("test")
        .maxNodes(1000)
        .issueDate(now)
        .type("basic")
        .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
    License license = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
        ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(builder), false,
        builder.contentType()).v2();

    // should have an extra status field, human readable issue_data and no expiry_date
    assertThat(map.get("status"), notNullValue());
    assertThat(map.get("type"), equalTo("basic"));
    assertThat(map.get("issue_date"), notNullValue());
    assertThat(map.get("expiry_date"), nullValue());
    assertThat(map.get("expiry_date_in_millis"), nullValue());
    assertThat(map.get("status"), equalTo("active"));
builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
    assertThat(map.get("status"), nullValue());
}
}
/*
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*)
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;

public class GetBasicStatusRequest extends MasterNodeReadRequest<GetBasicStatusRequest> {
    public GetBasicStatusRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

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apply plugin: 'elasticsearch.build'

dependencies {
    compile "org.elasticsearch.plugin:x-pack-core:${version}" 
    compile "org.elasticsearch:elasticsearch:${version}" 
    testCompile "org.elasticsearch.test:framework:${version}" 
}

project.forbiddenPatterns {
    exclude '**/*.key'
}

dependencyLicenses.enabled = false

task buildZip(type: Zip, dependsOn: jar) {
    String parentDir = "license-tools-${version}"
}
import org.elasticsearch.client.Request;
import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.io.Streams;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import java.io.InputStreamReader;
import java.nio.charset.StandardCharsets;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.SUITE;

@ESIntegTestCase.ClusterScope(scope = SUITE)
public class StartBasicLicenseTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder()
            .put(super.nodeSettings(nodeOrdinal))
            .put("node.data", true)
            .put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), "basic")
            .put(NetworkModule.HTTP_ENABLED.getKey(), true).build();
@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    return Arrays.asList(LocalStateCompositeXPackPlugin.class, Netty4Plugin.class);
}

@Override
protected Collection<Class<? extends Plugin>> transportClientPlugins() {
    return Arrays.asList(XPackClientPlugin.class, Netty4Plugin.class);
}

public void testStartBasicLicense() throws Exception {
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, -1,
    TimeValue.timeValueHours(24));
    licensingClient.preparePutLicense(license).get();

    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
        assertEquals("trial", getLicenseResponse.license().type());
    });

    // Testing that you can start a basic license when you have no license
    if (randomBoolean()) {
        licensingClient.prepareDeleteLicense().get();
        assertNull(licensingClient.prepareGetLicense().get().license());
    }

    RestClient restClient = getRestClient();
    Response response = restClient.performRequest(new Request("GET", "/_xpack/license/basic_status"));
    String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
    StandardCharsets.UTF_8));
    assertEquals(200, response.getStatusLine().getStatusCode());
    assertEquals("{"eligible_to_start_basic":true}", body);

    Request ackRequest = new Request("POST", "/_xpack/license/start_basic");
    ackRequest.addParameter("acknowledge", "true");
    Response response2 = restClient.performRequest(ackRequest);
    String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
    StandardCharsets.UTF_8));
    assertEquals(200, response2.getStatusLine().getStatusCode());
    assertTrue(body2.contains(""acknowledged":true");
    assertTrue(body2.contains(""basic_was_started":true");)

    assertBusy(() -> {
        GetLicenseResponse currentLicense = licensingClient.prepareGetLicense().get();
        assertEquals("basic", currentLicense.license().type());
    });
}
long expirationMillis = licensingClient.prepareGetLicense().get().license().expiryDate();
assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS, expirationMillis);

Response response3 = restClient.performRequest(new Request("GET", "/_xpack/license"));
String body3 = Streams.copyToString(new InputStreamReader(response3.getEntity().getContent(),
         StandardCharsets.UTF_8));
assertTrue(body3.contains("\"type\" : \"basic\""));
assertFalse(body3.contains("expiry_date"));
assertFalse(body3.contains("expiry_date_in_millis"));

Response response4 = restClient.performRequest(new Request("GET", "/_xpack/license/basic_status"));
String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(),
         StandardCharsets.UTF_8));
assertEquals(200, response3.getStatusLine().getStatusCode());
assertEquals("{"eligible_to_start_basic":false}", body4);

ResponseException ex = expectThrows(ResponseException.class,
   () -> restClient.performRequest(new Request("POST", "/_xpack/license/start_basic")));
Response response5 = ex.getResponse();
String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(),
         StandardCharsets.UTF_8));
assertEquals(403, response5.getStatusLine().getStatusCode());
assertTrue(body5.contains("\"basic_was_started\":false"));
assertTrue(body5.contains("\"acknowledged\":true"));
assertTrue(body5.contains("\"error_message\":\"Operation failed: Current license is basic.\""));

public void testUnacknowledgedStartBasicLicense() throws Exception {
   LicensingClient licensingClient = new LicensingClient(client());
   License license = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, -1,
          TimeValue.timeValueHours(24));
   licensingClient.preparePutLicense(license).get();

   assertBusy(() -> {
          GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
          assertEquals("trial", getLicenseResponse.license().type());
   });

   Response response2 = getRestClient().performRequest(new Request("POST", "/_xpack/license/start_basic"));
   String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
          StandardCharsets.UTF_8));
   assertEquals(200, response2.getStatusLine().getStatusCode());
   assertTrue(body2.contains("\"acknowledged\":false"));
   assertTrue(body2.contains("\"basic_was_started\":false"));
   assertTrue(body2.contains("\"error_message\":\"Operation failed: Needs acknowledgement.\""));
}
assertTrue(body2.contains("\"message\":"This license update requires acknowledgement. To acknowledge the license, " +
  "please read the following messages and call /start_basic again, this time with the\n\"acknowledge=true\"\"));
}
*/
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*/

package org.elasticsearch.license;

import org.elasticsearch.Version;

/**
 * Marker interface for callbacks that are invoked when the license state changes.
 */
@FunctionalInterface
public interface LicenseStateListener {

  /**
   * Callback when the license state changes. See {@link XPackLicenseState#update(License.OperationMode,
   * boolean, Version)}.
   */
  void licenseStateChanged();
}

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 */
package org.elasticsearch.license.licensor;
```java
import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.file.Files;
import java.security.InvalidKeyException;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.SecureRandom;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Base64;
import java.util.Collections;
import java.util.Map;

/**
 * Responsible for generating a license signature according to the signature spec and sign it with
 * the provided encrypted private key
 */
public class LicenseSigner {

    private static final int MAGIC_LENGTH = 13;
    private final Path publicKeyPath;
    private final Path privateKeyPath;

    public LicenseSigner(final Path privateKeyPath, final Path publicKeyPath) {
        this.publicKeyPath = publicKeyPath;
        this.privateKeyPath = privateKeyPath;
    }

    /**
     * Generates a signature for the [@code licenseSpec]. Signature structure:
     * <code>
     * | VERSION | MAGIC | PUB_KEY_DIGEST | SIGNED_LICENSE_CONTENT |
     * </code>
     */
    public LicenseSigner(final Path privateKeyPath, final Path publicKeyPath) {
        this.publicKeyPath = publicKeyPath;
        this.privateKeyPath = privateKeyPath;
    }
```
public License sign(License licenseSpec) throws IOException {
    XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
    final Map<String, String> licenseSpecViewMode =
        Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true");
    licenseSpec.toXContent(contentBuilder, new ToXContent.MapParams(licenseSpecViewMode));
    final byte[] signedContent;
    final boolean preV4 = licenseSpec.version() < License.VERSION_CRYPTO_ALGORITHMS;
    try {
        final Signature rsa = Signature.getInstance("SHA512withRSA");
        PrivateKey decryptedPrivateKey =
            CryptUtils.readEncryptedPrivateKey(Files.readAllBytes(privateKeyPath));
        rsa.initSign(decryptedPrivateKey);
        final BytesRefIterator iterator = BytesReference.bytes(contentBuilder).iterator();
        BytesRef ref;
        while((ref = iterator.next()) != null) {
            rsa.update(ref.bytes, ref.offset, ref.length);
        }
        signedContent = rsa.sign();
    } catch (InvalidKeyException
        | IOException
        | NoSuchAlgorithmException
        | SignatureException e) {
        throw new IllegalStateException(e);
    }
    final byte[] magic = new byte[MAGIC_LENGTH];
    SecureRandom random = new SecureRandom();
    random.nextBytes(magic);
    final byte[] publicKeyBytes = Files.readAllBytes(publicKeyPath);
    PublicKey publicKey = CryptUtils.readPublicKey(publicKeyBytes);
    final byte[] pubKeyFingerprint = preV4 ?
        Base64.getEncoder().encode(CryptUtils.writeEncryptedPublicKey(publicKey)) :
        getPublicKeyFingerprint(publicKeyBytes);
    byte[] bytes = new byte[4 + 4 + MAGIC_LENGTH + 4 + pubKeyFingerprint.length + 4 +
        signedContent.length];
    ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
    byteBuffer.putInt(licenseSpec.version())
        .putInt(magic.length)
        .put(magic)
        .putInt(pubKeyFingerprint.length)
        .put(pubKeyFingerprint)
        .putInt(signedContent.length)
        .put(signedContent);

    return License.builder()
        .fromLicenseSpec(licenseSpec, Base64.getEncoder().encodeToString(bytes))
}
private byte[] getPublicKeyFingerprint(byte[] keyBytes) {
    MessageDigest sha256 = MessageDigests.sha256();
    sha256.update(keyBytes);
    return sha256.digest();
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import java.util.Arrays;
import java.util.Collection;
import java.util.concurrent.CountDownLatch;

public abstract class AbstractLicensesIntegrationTestCase extends ESIntegTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), false).build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Arrays.asList(XPackClientPlugin.class, CommonAnalysisPlugin.class);
    }
}
@Override
protected Settings transportClientSettings() {
    // Plugin should be loaded on the transport client as well
    return nodeSettings(0);
}

protected void putLicense(final License license) throws InterruptedException {
    final CountDownLatch latch = new CountDownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
    internalCluster().getMasterName());
    clusterService.submitStateUpdateTask("putting license", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });
    latch.await();
}

protected void putLicenseTombstone() throws InterruptedException {
    putLicense(LicensesMetaData.LICENSE_TOMBSTONE);
}

protected void wipeAllLicenses() throws InterruptedException {
    final CountDownLatch latch = new CountDownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
    internalCluster().getMasterName());
    clusterService.submitStateUpdateTask("delete licensing metadata", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });
    latch.await();
}

protected void putLicenseTombstone() throws InterruptedException {
    putLicense(LicensesMetaData.LICENSE_TOMBSTONE);
}

protected void wipeAllLicenses() throws InterruptedException {
    final CountDownLatch latch = new CountDownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
    internalCluster().getMasterName());
    clusterService.submitStateUpdateTask("delete licensing metadata", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });
    latch.await();
}

@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
    latch.countDown();
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error("error on metaData cleanup after test", e);
}

@MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
        mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
        return ClusterState.builder(currentState).metaData(mdBuilder).build();
    }
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error("error on metaData cleanup after test", e);
}

protected void putLicenseTombstone() throws InterruptedException {
    putLicense(LicensesMetaData.LICENSE_TOMBSTONE);
}

protected void wipeAllLicenses() throws InterruptedException {
    final CountDownLatch latch = new CountDownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
    internalCluster().getMasterName());
    clusterService.submitStateUpdateTask("delete licensing metadata", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });
    latch.await();
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error("error on metaData cleanup after test", e);
}
```java
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ContextPreservingActionListener;
import org.elasticsearch.client.Client;
import org.elasticsearch.common.util.concurrent.ThreadContext;
import org.elasticsearch.protocol.xpack.XPackInfoRequest;
import org.elasticsearch.protocol.xpack.XPackInfoResponse;
import org.elasticsearch.protocol.xpack.license.LicenseStatus;
import org.elasticsearch.transport.RemoteClusterAware;
import org.elasticsearch.xpack.core.action.XPackInfoAction;
import java.util.EnumSet;
import java.util.Iterator;

public ClusterState execute(ClusterState currentState) throws Exception {
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    mdBuilder.removeCustom(LicensesMetaData.TYPE);
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error("error on metaData cleanup after test", e);
}

protected void assertLicenseActive(boolean active) throws InterruptedException {
    boolean success = awaitBusy(() -> {
        for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
            if (licenseState.isActive() == active) {
                return true;
            }
        }
        return false;
    });
    assertTrue(success);
}

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 */

package org.elasticsearch.license;

import org.elasticsearch.license.ElasticsearchException;
import org.elasticsearch.license.action.ActionListener;
import org.elasticsearch.license.action.support.ContextPreservingActionListener;
import org.elasticsearch.license.client.Client;
import org.elasticsearch.license.common.util.concurrent.ThreadContext;
import org.elasticsearch.license.protocol.xpack.XPackInfoRequest;
import org.elasticsearch.license.protocol.xpack.XPackInfoResponse;
import org.elasticsearch.license.protocol.xpack.license.LicenseStatus;
import org.elasticsearch.license.transport.RemoteClusterAware;
import org.elasticsearch.license.xpack.core.action.XPackInfoAction;

import java.util.EnumSet;
import java.util.Iterator;
```
import java.util.List;
import java.util.Locale;
import java.util.concurrent.atomic.AtomicReference;
import java.util.function.Predicate;
import java.util.stream.Collectors;

/**
 * Checks remote clusters for license compatibility with a specified license predicate.
 */
public final class RemoteClusterLicenseChecker {

    /**
     * Encapsulates the license info of a remote cluster.
     */
    public static final class RemoteClusterLicenseInfo {

        private final String clusterAlias;

        /**
         * The alias of the remote cluster.
         *
         * @return the cluster alias
         */
        public String clusterAlias() {
            return clusterAlias;
        }

        private final XPackInfoResponse.LicenseInfo licenseInfo;

        /**
         * The license info of the remote cluster.
         *
         * @return the license info
         */
        public XPackInfoResponse.LicenseInfo licenseInfo() {
            return licenseInfo;
        }

        RemoteClusterLicenseInfo(final String clusterAlias, final XPackInfoResponse.LicenseInfo licenseInfo) {
            this.clusterAlias = clusterAlias;
            this.licenseInfo = licenseInfo;
        }
    }

    /**
     * Encapsulates a remote cluster license check. The check is either successful if the license of the remote cluster is
     * compatible with
     */
}
* the predicate used to check license compatibility, or the check is a failure.
*/
public static final class LicenseCheck {

    private final RemoteClusterLicenseInfo remoteClusterLicenseInfo;

    /**
     * The remote cluster license info. This method should only be invoked if this instance represents a failing license check.
     *
     * @return the remote cluster license info
     */
    public RemoteClusterLicenseInfo remoteClusterLicenseInfo() {
        assert isSuccess() == false;
        return remoteClusterLicenseInfo;
    }

    private static final LicenseCheck SUCCESS = new LicenseCheck(null);

    /**
     * A successful license check.
     *
     * @return a successful license check instance
     */
    public static LicenseCheck success() {
        return SUCCESS;
    }

    /**
     * Test if this instance represents a successful license check.
     *
     * @return true if this instance represents a successful license check, otherwise false
     */
    public boolean isSuccess() {
        return this == SUCCESS;
    }

    /**
     * Creates a failing license check encapsulating the specified remote cluster license info.
     *
     * @param remoteClusterLicenseInfo the remote cluster license info
     * @return a failing license check
     */
    public static LicenseCheck failure(final RemoteClusterLicenseInfo remoteClusterLicenseInfo) {
        return new LicenseCheck(remoteClusterLicenseInfo);
    }

    private LicenseCheck(final RemoteClusterLicenseInfo remoteClusterLicenseInfo) {
private final Client client;
private final Predicate<LicenseOperationMode> predicate;

/**
 * Constructs a remote cluster license checker with the specified license predicate for checking license compatibility. The predicate
 * does not need to check for the active license state as this is handled by the remote cluster license checker.
 *
 * @param client the client
 * @param predicate the license predicate
 */
public RemoteClusterLicenseChecker(Client client, Predicate<LicenseOperationMode> predicate) {
    this.client = client;
    this.predicate = predicate;
}

public static boolean isLicensePlatinumOrTrial(XPackInfoResponse.LicenseInfo licenseInfo) {
    final LicenseOperationMode mode = LicenseOperationMode.resolve(licenseInfo.getMode());
    return mode == LicenseOperationMode.PLATINUM || mode == LicenseOperationMode.TRIAL;
}

/**
 * Checks the specified clusters for license compatibility. The specified callback will be invoked once if all clusters are
 * license-compatible, otherwise the specified callback will be invoked once on the first cluster that is not license-compatible.
 *
 * @param clusterAliases the cluster aliases to check
 * @param listener a callback
 */
public void checkRemoteClusterLicenses(List<String> clusterAliases, ActionListener<LicenseCheck> listener) {
    final Iterator<String> clusterAliasesIterator = clusterAliases.iterator();
    if (clusterAliasesIterator.hasNext() == false) {
        listener.onResponse(LicenseCheck.success());
        return;
    }

    final AtomicReference<String> clusterAlias = new AtomicReference<>();
    final ActionListener<XPackInfoResponse> infoListener = new ActionListener<XPackInfoResponse>() {
        @Override
        public void onResponse(XPackInfoResponse response)
        } {
public void onResponse(final XPackInfoResponse xPackInfoResponse) {
    final XPackInfoResponse.LicenseInfo licenseInfo = xPackInfoResponse.getLicenseInfo();
    if ((licenseInfo.getStatus() == LicenseStatus.ACTIVE) == false
        || predicate.test(License.OperationMode.resolve(licenseInfo.getMode()))) == false) {
        listener.onResponse(LicenseCheck.failure(new RemoteClusterLicenseInfo(clusterAlias.get(), licenseInfo)));
        return;
    }

    if (clusterAliasesIterator.hasNext()) {
        clusterAlias.set(clusterAliasesIterator.next());
        // recurse to the next cluster
        remoteClusterLicense(clusterAlias.get(), this);
    } else {
        listener.onResponse(LicenseCheck.success());
    }
}

@Override
public void onFailure(final Exception e) {
    final String message = "could not determine the license type for cluster [" + clusterAlias.get() + "]";
    listener.onFailure(new ElasticsearchException(message, e));
}

private void remoteClusterLicense(final String clusterAlias, final ActionListener<XPackInfoResponse> listener) {
    final ThreadContext threadContext = client.threadPool().getThreadContext();
    final ContextPreservingActionListener<XPackInfoResponse> contextPreservingActionListener =
        new ContextPreservingActionListener<>(threadContext.newRestorableContext(false), listener);
    try (ThreadContext.StoredContext ignore = threadContext.stashContext()) {
        // we stash any context here since this is an internal execution and should not leak any existing context
        // information
        threadContext.markAsSystemContext();
        final XPackInfoRequest request = new XPackInfoRequest();
        request.setCategories(EnumSet.of(XPackInfoRequest.Category.LICENSE));
        try {
            client.getRemoteClusterClient(clusterAlias).execute(XPackInfoAction.INSTANCE, request,
                contextPreservingActionListener);
        } catch (final Exception e) {
            contextPreservingActionListener.onFailure(e);
        }
    }
}
/**
 * Predicate to test if the index name represents the name of a remote index.
 * @param index the index name
 * @return true if the collection of indices contains a remote index, otherwise false
 */
public static boolean isRemoteIndex(final String index) {
    return index.indexOf(RemoteClusterAware.REMOTE_CLUSTER_INDEX_SEPARATOR) != -1;
}

/**
 * Predicate to test if the collection of index names contains any that represent the name of a remote index.
 * @param indices the collection of index names
 * @return true if the collection of index names contains a name that represents a remote index, otherwise false
 */
public static boolean containsRemoteIndex(final List<String> indices) {
    return indices.stream().anyMatch(RemoteClusterLicenseChecker::isRemoteIndex);
}

/**
 * Filters the collection of index names for names that represent a remote index. Remote index names are of the form
 * { @code cluster_name:index_name}.
 * @param indices the collection of index names
 * @return list of index names that represent remote index names
 */
public static List<String> remoteIndices(final List<String> indices) {
    return indices.stream().filter(RemoteClusterLicenseChecker::isRemoteIndex).collect(Collectors.toList());
}

/**
 * Extract the list of remote cluster aliases from the list of index names. Remote index names are of the form
 * { @code cluster_alias:index_name} and the cluster_alias is extracted for each index name that represents a remote index.
 * @param indices the collection of index names
 * @return the remote cluster names
 */
public static List<String> remoteClusterAliases(final List<String> indices) {
    return indices.stream()
    .filter(RemoteClusterLicenseChecker::isRemoteIndex)
    .map(index -> index.substring(0,
    index.indexOf(RemoteClusterAware.REMOTE_CLUSTER_INDEX_SEPARATOR)))
    .collect(Collectors.toList());
}
**constructs an error message for license incompatibility.**

* @param feature the name of the feature that initiated the remote cluster license check.
* @param remoteClusterLicenseInfo the remote cluster license info of the cluster that failed the license check
* @return an error message representing license incompatibility
*

```java
public static String buildErrorMessage(final String feature,
final RemoteClusterLicenseInfo remoteClusterLicenseInfo,
final Predicate<XPackInfoResponse.LicenseInfo> predicate) {
final StringBuilder error = new StringBuilder();
if (remoteClusterLicenseInfo.licenseInfo().getStatus() != LicenseStatus.ACTIVE) {
error.append(String.format(Locale.ROOT, "the license on cluster [%s] is not active", remoteClusterLicenseInfo.clusterAlias()));
} else {
assert predicate.test(remoteClusterLicenseInfo.licenseInfo()) == false : "license must be incompatible to build error message";
final String message = String.format(Locale.ROOT,
"the license mode [%s] on cluster [%s] does not enable [%s]",
License.OperationMode.resolve(remoteClusterLicenseInfo.licenseInfo().getMode()),
remoteClusterLicenseInfo.clusterAlias(),
feature);
error.append(message);
}
return error.toString();
}
```

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package org.elasticsearch.xpack.monitoring;

import org.elasticsearch.action.admin.cluster.node.info.NodeInfo;
import org.elasticsearch.action.admin.cluster.node.info.NodesInfoResponse;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.env.Environment;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.plugins.PluginInfo;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.tribe.TribePlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.monitoring.test.MonitoringIntegTestCase;

import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Collection;
import java.util.function.Function;

@ClusterScope(scope = TEST, transportClientRatio = 0, numClientNodes = 0, numDataNodes = 0)
public class MonitoringPluginTests extends MonitoringIntegTestCase {

    public MonitoringPluginTests() throws Exception {
        super();
    }

    @Override
    protected void startMonitoringService() {
        // do nothing as monitoring is sometime unbound
    }

    @Override
    protected void stopMonitoringService() {
        // do nothing as monitoring is sometime unbound
    }

    @Override
    protected boolean addTestZenDiscovery() {
public static class TribeAwareTestZenDiscoveryPlugin extends TestZenDiscovery.TestPlugin {

    public TribeAwareTestZenDiscoveryPlugin(Settings settings) {
        super(settings);
    }

    @Override
    public Settings additionalSettings() {
        if (settings.getGroups("tribe", true).isEmpty()) {
            return super.additionalSettings();
        } else {
            return Settings.EMPTY;
        }
    }
}

public static class MockTribePlugin extends TribePlugin {

    public MockTribePlugin(Settings settings) {
        super(settings);
    }

    protected Function<Settings, Node> nodeBuilder(Path configPath) {
        return settings -> new MockNode(new Environment(settings, configPath), internalCluster().getPlugins());
    }
}

@Override
protected Collection<? extends Plugin> nodePlugins() {
    ArrayList<? extends Plugin> plugins = new ArrayList<>(super.nodePlugins());
    plugins.add(MockTribePlugin.class);
    plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
    return plugins;
}

@Override
protected Settings nodeSettings(int nodeOrdinal) {
    return Settings.builder()
            .put(super.nodeSettings(nodeOrdinal))
            .put(MonitoringService.INTERVAL.getKey(), "-1")
            .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
            .put(XPackSettings.WATCHER_ENABLED.getKey(), false)
            .build();
}
@Override
protected Settings transportClientSettings() {
    return Settings.builder()
            .put(super.transportClientSettings())
            .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
            .build();
}

public void testMonitoringEnabled() {
    internalCluster().startNode(Settings.builder()
            .put(XPackSettings.MONITORING_ENABLED.getKey(), true)
            .build());
    assertPluginIsLoaded();
    assertServiceIsBound(MonitoringService.class);
}

public void testMonitoringDisabled() {
    internalCluster().startNode(Settings.builder()
            .put(XPackSettings.MONITORING_ENABLED.getKey(), false)
            .build());
    assertPluginIsLoaded();
    assertServiceIsNotBound(MonitoringService.class);
}

public void testMonitoringEnabledOnTribeNode() {
    internalCluster().startNode(Settings.builder()
            .put(XPackSettings.MONITORING_ENABLED.getKey(), true)
            .put("tribe.name", "t1")
            .build());
    assertPluginIsLoaded();
    assertServiceIsBound(MonitoringService.class);
}

public void testMonitoringDisabledOnTribeNode() {
    internalCluster().startNode(Settings.builder().put("tribe.name", "t1").build());
    assertPluginIsLoaded();
    assertServiceIsNotBound(MonitoringService.class);
}

private void assertPluginIsLoaded() {
    NodesInfoResponse response = client().admin().cluster().prepareNodesInfo().setPlugins(true).get();
    for (NodeInfo nodeInfo : response.getNodes()) {
        assertNotNull(nodeInfo.getPlugins());
        boolean found = false;
        for (PluginInfo plugin : nodeInfo.getPlugins().getPluginInfos()) {
            assertNotNull(plugin);
            found = true;
        }
        if (!found) {
            fail();  // Should not happen if there are no plugins
        }
    }
}
if (LocalStateMonitoring.class.getName().equals(plugin.getName())) {
    found = true;
    break;
}
assertThat("xpack plugin not found", found, equalTo(true));
}

private void assertServiceIsBound(Class<?> klass) {
    try {
        Object binding = internalCluster().getDataNodeInstance(klass);
        assertNotNull(binding);
        assertTrue(klass.isInstance(binding));
    } catch (Exception e) {
        fail("no service bound for class ". + klass.getSimpleName());
    }
}

private void assertServiceIsNotBound(Class<?> klass) {
    try {
        // it should be bound, but directly as null
        assertNotNull(internalCluster().getDataNodeInstance(klass));
    } catch (Exception ce) {
        assertThat("message contains error about missing implementation: " + ce.getMessage(),
            ce.getMessage().contains("Could not find a suitable constructor"), equalTo(true));
    }
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.client.Request;
import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.io.Streams;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import java.io.InputStreamReader;
import java.nio.charset.StandardCharsets;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.SUITE;

@ESIntegTestCase.ClusterScope(scope = SUITE)
public class StartTrialLicenseTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder()
                .put(super.nodeSettings(nodeOrdinal))
                .put("node.data", true)
                .put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), "basic")
                .put(NetworkModule.HTTP_ENABLED.getKey(), true).build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, Netty4Plugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Arrays.asList(XPackClientPlugin.class, Netty4Plugin.class);
    }

    public void testStartTrial() throws Exception {
        LicensingClient licensingClient = new LicensingClient(client());
        ensureStartingWithBasic();

        RestClient restClient = getRestClient();
        Response response = restClient.performRequest(new Request("GET", "/_xpack/license/trial_status"));
        String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(), StandardCharsets.UTF_8));
        assertEquals(200, response.getStatusLine().getStatusCode());
        assertEquals("{"eligible_to_start_trial":true}" , body);

        // Test that starting will fail without acknowledgement
        Response response2 = restClient.performRequest(new Request("POST", "/_xpack/license/start_trial"));
        String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(), StandardCharsets.UTF_8));
        assertEquals(200, response2.getStatusLine().getStatusCode());
        assertTrue(body2.contains("\"trial_was_started\":false");
    }
}
public void testInvalidType() throws Exception {

    String type = randomFrom(LicenseService.VALID_TRIAL_TYPES);

    Request request1 = new Request("POST", "/_xpack/license/start_trial");
    request1.addParameter("acknowledge", "true");
    Response response1 = restClient.performRequest(request1);
    String body1 = Streams.copyToString(new InputStreamReader(response1.getEntity().getContent(),
        StandardCharsets.UTF_8));
    assertEquals(200, response1.getStatusLine().getStatusCode());
    assertTrue(body1.contains("trial_was_started":true");
    assertEquals(type, response1.getResponse().getStatusLine().getStatusCode());

    String secondAttemptType = randomFrom(LicenseService.VALID_TRIAL_TYPES);

    Request startTrialWhenStartedRequest = new Request("POST", "/_xpack/license/start_trial");
    startTrialWhenStartedRequest.addParameter("acknowledge", "true");
    startTrialWhenStartedRequest.addParameter("type", secondAttemptType);
    ResponseException ex = expectThrows(ResponseException.class, () ->
        restClient.performRequest(startTrialWhenStartedRequest));
    Response response5 = ex.getResponse();
    String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(),
        StandardCharsets.UTF_8));
    assertEquals(403, response5.getStatusLine().getStatusCode());
    assertTrue(body5.contains("trial_was_started":false");
    assertTrue(body5.contains("error_message":"Operation failed: Trial was already activated.";
})

}
ensureStartingWithBasic();

Request request = new Request("POST", "/_xpack/license/start_trial");
request.addParameter("type", "basic");
ResponseException ex = expectThrows(ResponseException.class, () ->
  getRestClient().performRequest(request));

Response response = ex.getResponse();
String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
  StandardCharsets.UTF_8));
assertEquals(400, response.getStatusLine().getStatusCode());
assertTrue(body.contains("\"type\":\"illegal_argument_exception\""));
assertTrue(body.contains("\"reason\":\"Cannot start trial of type [basic]. Valid trial types are [\"]"));

private void ensureStartingWithBasic() throws Exception {
  LicensingClient licensingClient = new LicensingClient(client());
  GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();

  if ("basic".equals(getLicenseResponse.license().type()) == false) {
    licensingClient.preparePostStartBasic().setAcknowledge(true).get();
  }

  assertBusy(() -> {
    GetLicenseResponse postTrialLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals("basic", postTrialLicenseResponse.license().type());
  });
}

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*/
package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import java.time.Clock;
import java.util.Collections;
import java.util.Map;

import java.time.Clock;
import java.util.Collections;
import java.util.Map;

package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import java.time.Clock;
import java.util.Collections;
import java.util.Map;

import java.time.Clock;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;

public class StartTrialClusterTask extends ClusterStateUpdateTask {

    private static final String ACKNOWLEDGEMENT_HEADER = "This API initiates a free 30-day trial for all platinum features. " +
        "By starting this trial, you agree that it is subject to the terms and conditions at" +
        "https://www.elastic.co/legal/trial_license/. To begin your free trial, call /start_trial again and specify " +
        "the "acknowledge=true" parameter. ";

    private static final Map<String, String[]> ACK_MESSAGES = Collections.singletonMap("security",
            new String[]{"With a trial license, X-Pack security features are available, but are not enabled by default."});

    private final Logger logger;
    private final String clusterName;
    private final PostStartTrialRequest request;
    private final ActionListener<PostStartTrialResponse> listener;
    private final Clock clock;

    StartTrialClusterTask(Logger logger, String clusterName, Clock clock, PostStartTrialRequest request,
            ActionListener<PostStartTrialResponse> listener) {
        this.logger = logger;
        this.clusterName = clusterName;
        this.request = request;
        this.listener = listener;
        this.clock = clock;
    }

    @Override
    public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
        LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
        logger.debug("started self generated trial license: ", oldLicensesMetaData);

        if (request.isAcknowledged() == false) {
            listener.onResponse(new
                    PostStartTrialResponse(PostStartTrialResponse.Status.NEED_ACKNOWLEDGEMENT,
                            ACK_MESSAGES, ACKNOWLEDGEMENT_HEADER));
        } else if (oldLicensesMetaData == null || oldLicensesMetaData.isEligibleForTrial()) {
            listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.UPGRADED_TO_TRIAL));
        } else {
            listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.TRIAL_ALREADY_ACTIVATED));
        }
    }

    @Override
    public ClusterState execute(ClusterState currentState) throws Exception {
        XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    }
}
If (request.isAcknowledged() == false) {
    return currentState;
} else if (currentLicensesMetaData == null || currentLicensesMetaData.isEligibleForTrial()) {
    long issueDate = clock.millis();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    long expiryDate = issueDate + LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();

    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo(clusterName)
        .maxNodes(LicenseService.SELF_GENERATED_LICENSE_MAX_NODES)
        .issueDate(issueDate)
        .type(request.getType())
        .expiryDate(expiryDate);
    License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
    LicensesMetaData newLicensesMetaData = new LicensesMetaData(selfGeneratedLicense, Version.CURRENT);
    mdBuilder.putCustom(LicensesMetaData.TYPE, newLicensesMetaData);
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
} else {
    return currentState;
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error(new ParameterizedMessage("unexpected failure during [{}]", source), e);
    listener.onFailure(e);
}

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package org.elasticsearch.xpack;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.LicenseService;
import org.elasticsearch.license.XPackLicenseState;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.ssl.SSLService;
import org.elasticsearch.xpack.deprecation.Deprecation;
import org.elasticsearch.xpack.graph.Graph;
import org.elasticsearch.xpack.logstash.Logstash;
import org.elasticsearch.xpack.ml.MachineLearning;
import org.elasticsearch.xpack.monitoring.Monitoring;
import org.elasticsearch.xpack.security.Security;
import org.elasticsearch.xpack.watcher.Watcher;

import java.nio.file.Path;

public class CompositeTestingXPackPlugin extends LocalStateCompositeXPackPlugin {
  public CompositeTestingXPackPlugin(final Settings settings, final Path configPath) throws Exception {
    super(settings, configPath);
    CompositeTestingXPackPlugin thisVar = this;
    plugins.add(new Deprecation());
    plugins.add(new Graph(settings));
    plugins.add(new Logstash(settings));
    plugins.add(new MachineLearning(settings, configPath) {
      @Override
      protected XPackLicenseState getLicenseState() {
        return super.getLicenseState();
      }
    });
    plugins.add(new Monitoring(settings) {
      @Override
      protected SSLService getSslService() {
        return thisVar.getSslService();
      }
    });
    plugins.add(new LicenseService) {
      @Override
      protected LicenseService getLicenseService() {
        return thisVar.getLicenseService();
      }
    }
}
@Override
protected XPackLicenseState getLicenseState() {
    return thisVar.getLicenseState();
}
});
plugins.add(new Watcher(settings) {
    @Override
    protected SSLService getSslService() {
        return thisVar.getSslService();
    }
});

plugins.add(new Security(settings, configPath) {
    @Override
    protected SSLService getSslService() { return thisVar.getSslService(); }
    @Override
    protected XPackLicenseState getLicenseState() { return thisVar.getLicenseState(); }
});

package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterChangedEvent;
import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.junit.After;
import org.junit.Before;
import org.mockito.ArgumentCaptor;
import static java.util.Collections.emptyMap;
import static java.util.Collections.emptySet;

import static java.util.Collections.emptyMap;
import static java.util.Collections.emptySet;
import static org.hamcrest.Matchers.equalTo;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;

public class LicenseClusterChangeTests extends AbstractLicenseServiceTestCase {

    private TestUtils.AssertingLicenseState licenseState;

    @Before
    public void setup() {
        licenseState = new TestUtils.AssertingLicenseState();
        setInitialState(null, licenseState, Settings.EMPTY);
        licenseService.start();
    }

    @After
    public void teardown() {
        licenseService.stop();
    }

    public void testNotificationOnNewLicense() throws Exception {
        ClusterState oldState = ClusterState.builder(new ClusterName("a")).build();
        final License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(24));
        MetaData metaData = MetaData.builder().putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null)).build();
        ClusterState newState = ClusterState.builder(new ClusterName("a")).metaData(metaData).build();
        licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
        assertThat(licenseState.activeUpdates.size(), equalTo(1));
        assertTrue(licenseState.activeUpdates.get(0));
    }

    public void testNoNotificationOnExistingLicense() throws Exception {
        final License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(24));
        MetaData metaData = MetaData.builder().putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null)).build();
        ClusterState oldState = ClusterState.builder(newState).build();
        ClusterState newState = ClusterState.builder(new ClusterName("a")).metaData(metaData).build();
        licenseService.clusterChanged(new ClusterChangedEvent("simulated", new State, oldState));
        assertThat(licenseState.activeUpdates.size(), equalTo(0));
        assertTrue(licenseState.activeUpdates.get(0));
    }

    public void testSelfGeneratedLicenseGeneration() throws Exception {
        DiscoveryNode master = new DiscoveryNode("b", buildNewFakeTransportAddress(), emptyMap(), emptySet(), Version.CURRENT);
        ClusterState oldState = ClusterState.builder(new ClusterName("a"))
licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
verify(clusterService, times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
ClusterState stateWithLicense = stateUpdater.getValue().execute(newState);
LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
assertNull(licenseMetaData);
long expiration;
if (licenseType.equals("basic")) {
    expiration = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
} else {
    expiration = LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.millis() +
                 clock.millis();
}
assertEquals(expiration, licenseMetaData.getLicense().expiryDate());
*/

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;

public class PutLicenseAction extends Action<PutLicenseRequest, PutLicenseResponse,
PutLicenseRequestBuilder> {

    public static final PutLicenseAction INSTANCE = new PutLicenseAction();
    public static final String NAME = "cluster:admin/xpack/license/put";

    private PutLicenseAction() {
        super(NAME);
    }

    @Override
    public PutLicenseResponse newResponse() {
        return new PutLicenseResponse();
    }
}
public PutLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
    return new PutLicenseRequestBuilder(client, this);
}

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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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(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
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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/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

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===========================================================================
Nori Korean Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ko-dic-2.0.3-20170922

which can be obtained from

https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

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 */

package org.elasticsearch.client.license;

import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.client.common.ProtocolUtils;
import org.elasticsearch.test.ESTestCase;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.client.common.ProtocolUtils;
import org.elasticsearch.test.ESTestCase;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import static org.hamcrest.CoreMatchers.equalTo;

public class StartBasicResponseTests extends ESTestCase {

    public void testFromXContent() throws Exception {
        StartBasicResponse.Status status = randomFrom(StartBasicResponse.Status.values());

        boolean acknowledged = status != StartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;
        String acknowledgeMessage = null;
        Map<String, String[]> ackMessages = Collections.emptyMap();
        if (status != StartBasicResponse.Status.GENERATED_BASIC) {
            acknowledgeMessage = randomAlphaOfLength(10);
            ackMessages = randomAckMessages();
        }

        final StartBasicResponse startBasicResponse = new StartBasicResponse(status, ackMessages, acknowledgeMessage);

        XContentType xContentType = randomFrom(XContentType.values());
        XContentBuilder builder = XContentFactory.contentBuilder(xContentType);
        toXContent(startBasicResponse, builder);

        final StartBasicResponse response = StartBasicResponse.fromXContent(createParser(builder));
        assertThat(response.isAcknowledged(), equalTo(acknowledged));
        assertThat(response.isBasicStarted(), equalTo(status.isBasicStarted()));
        assertThat(response.getAcknowledgeMessage(), equalTo(acknowledgeMessage));
        assertThat(ProtocolUtils.equals(response.getAcknowledgeMessages(), ackMessages), equalTo(true));
    }

    private static void toXContent(StartBasicResponse response, XContentBuilder builder) throws IOException {
        builder.startObject();
        builder.field("acknowledged", response.isAcknowledged());
        if (response.isBasicStarted()) {
            builder.field("basic_was_started", true);
        } else {
            builder.field("basic_was_started", false);
            builder.field("error_message", response.getErrorMessage());
        }
        if (response.getAcknowledgeMessages().isEmpty() == false) {
            builder.startObject("acknowledge");
            builder.field("message", response.getAcknowledgeMessage());
            for (Map.Entry<String, String[]> entry : response.getAcknowledgeMessages().entrySet()) {
                builder.startArray(entry.getKey());
                for (String message : entry.getValue()) {
                    builder.value(message);
                }
            }
        }
        builder.endObject();
    }
}

Open Source Used In MSX Platform Services 3.8.01599
private static Map<String, String[]> randomAckMessages() {
    int nFeatures = randomIntBetween(1, 5);

    Map<String, String[]> ackMessages = new HashMap<>();

    for (int i = 0; i < nFeatures; i++) {
        String feature = randomAlphaOfLengthBetween(9, 15);
        int nMessages = randomIntBetween(1, 5);
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = randomAlphaOfLengthBetween(10, 30);
        }
        ackMessages.put(feature, messages);
    }

    return ackMessages;
}

package org.elasticsearch.xpack.ccr;

import org.apache.lucene.util.Constants;
import org.elasticsearch.client.Request;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.io.PathUtils;
import org.elasticsearch.common.settings.Settings;
import java.io.IOException;
import java.nio.file.Files;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import static org.elasticsearch.xpack.core.watcher.support.xcontent.ObjectPath.eval;

import java.io.IOException;
import java.nio.file.Files;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import static org.elasticsearch.xpack.core.watcher.support.xcontent.ObjectPath.eval;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.greaterThanOrEqualTo;
import static org.hamcrest.core.Is.is;

public class FollowIndexIT extends ESCCRRestTestCase {

    public void testDowngradeRemoteClusterToBasic() throws Exception {
        if ("follow".equals(targetCluster) == false) {
            return;
        }

        Request request = new Request("PUT", "/_ccr/auto_follow/test_pattern");
        request.setJsonEntity("{"leader_index_patterns": ["logs-*"], "remote_cluster": "leader_cluster"}");
        assertOK(client().performRequest(request));
    }

    String index1 = "logs-20190101";
    try (RestClient leaderClient = buildLeaderClient()) {
        createNewIndexAndIndexDocs(leaderClient, index1);
    }

    assertBusy(() -> {
        ensureYellow(index1);
        verifyDocuments(index1, 5, "filtered_field:true");
    });

    String index2 = "logs-20190102";
    try (RestClient leaderClient = buildLeaderClient()) {
        Request request = new Request("POST", "/_xpack/license/start_basic");
        request.addParameter("acknowledge", "true");
        Map<?, ?> response = toMap(leaderClient.performRequest(request));
        assertThat(response.get("basic_was_started"), is(true));
        assertThat(response.get("acknowledged"), is(true));

        createNewIndexAndIndexDocs(leaderClient, index2);
        index(leaderClient, index1, "5", "field", 5, "filtered_field", "true");
    }

    assertBusy(() -> {
        Request statsRequest = new Request("GET", "/_ccr/stats");
        Map<?, ?> response = toMap(client().performRequest(statsRequest));
        assertThat(eval("auto_follow_stats.number_of_successful_follow_indices", response), equalTo(1));
        assertThat(eval("auto_follow_stats.number_of_failed_remote_cluster_state_requests", response),
                    greaterThanOrEqualTo(1));
        assertThat(eval("auto_follow_stats.recent_auto_follow_errors.0.auto_follow_exception.reason", response),
                    containsString("the license mode [BASIC] on cluster [leader_cluster] does not enable [ccr]"));
    });
}
// Follow indices actively following leader indices before the downgrade to basic license remain to follow
// the leader index after the downgrade, so document with id 5 should be replicated to follower index:
verifyDocuments(index1, 6, "filtered_field:true");

// Index2 was created in leader cluster after the downgrade and therefor the auto follow coordinator in
// follow cluster should not pick that index up:
assertThat(indexExists(index2), is(false));

// parse the logs and ensure that the auto-coordinator skipped coordination on the leader cluster
// (does not work on windows...)
if (Constants.WINDOWS == false) {
  assertBusy(() -> {
    final List<String> lines = Files.readAllLines(PathUtils.get(System.getProperty("log")));
    final Iterator<String> it = lines.iterator();
    boolean warn = false;
    while (it.hasNext()) {
      final String line = it.next();
      if (line.matches(".*\[WARN\s*\]\[o\.e\.x\.c\.a\.AutoFollowCoordinator\s*\]\[node-0\] " +
          "failure occurred while fetching cluster state for auto follow pattern \[test_pattern\]\"])) {
        warn = true;
        break;
      }
    }
    assertTrue(warn);
    assertTrue(it.hasNext());
    final String lineAfterWarn = it.next();
    assertThat(
      lineAfterWarn,
      equalTo("org.elasticsearch.ElasticsearchStatusException: " +
        "can not fetch remote cluster state as the remote cluster [leader_cluster] is not licensed for [ccr]; " +
        "the license mode [BASIC] on cluster [leader_cluster] does not enable [ccr]"));
  });
}

// Manually following index2 also does not work after the downgrade:
Exception e = expectThrows(ResponseException.class, () -> followIndex("leader_cluster", index2));
assertThat(e.getMessage(), containsString("the license mode [BASIC] on cluster [leader_cluster] does not enable [ccr]"));
}

private void createNewIndexAndIndexDocs(RestClient client, String index) throws IOException {
  Settings settings = Settings.builder()
    .put("index.soft_deletes.enabled", true)
    .build();
  Request request = new Request("PUT", "/" + index);
  request.setJsonEntity("{" + Strings.toString(settings) +

Open Source Used In MSX Platform Services 3.8.01602
for (int i = 0; i < 5; i++) {
    String id = Integer.toString(i);
    index(client, index, id, "field", i, "filtered_field", "true");
}
}*/

package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.monitoring.MonitoringField;

import java.util.Collections;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.concurrent.CopyOnWriteArrayList;
import java.util.function.BiFunction;

/**
 * A holder for the current state of the license for all xpack features.
 */
public class XPackLicenseState {

/**
 * Messages for each feature which are printed when the license expires.
 */
static final Map<String, String[]> EXPIRATION_MESSAGES;
static {
    Map<String, String[]> messages = new LinkedHashMap<>();
    messages.put(XPackField.SECURITY, new String[] {
        "Cluster health, cluster stats and indices stats operations are blocked",
        "All data operations (read and write) continue to work"
    });
    ...
}
messages.put(XPackField.WATCHER, new String[] {
    "PUT / GET watch APIs are disabled, DELETE watch API continues to work",
    "Watches execute and write to the history",
    "The actions of the watches don't execute"
});
messages.put(XPackField.MONITORING, new String[] {
    "The agent will stop collecting cluster and indices metrics",
    "The agent will stop automatically cleaning indices older than [xpack.monitoring.history.duration]"
});
messages.put(XPackField.GRAPH, new String[] {
    "Graph explore APIs are disabled"
});
messages.put(XPackField.MACHINE_LEARNING, new String[] {
    "Machine learning APIs are disabled"
});
messages.put(XPackField.LOGSTASH, new String[] {
    "Logstash will continue to poll centrally-managed pipelines"
});
messages.put(XPackField.BEATS, new String[] {
    "Beats will continue to poll centrally-managed configuration"
});
messages.put(XPackField.DEPRECATION, new String[] {
    "Deprecation APIs are disabled"
});
messages.put(XPackField.UPGRADE, new String[] {
    "Upgrade API is disabled"
});
messages.put(XPackField.SQL, new String[] {
    "SQL support is disabled"
});
messages.put(XPackField.ROLLUP, new String[] {
    "Creating and Starting rollup jobs will no longer be allowed.",
    "Stopping/Deleting existing jobs, RollupCaps API and RollupSearch continue to function."
});
EXPIRATION_MESSAGES = Collections.unmodifiableMap(messages);
/**
 * Messages for each feature which are printed when the license type changes.
 * The value is a function taking the old and new license type, and returns the messages for that feature.
 */
static final Map<String, BiFunction<OperationMode, OperationMode, String[]>> ACKNOWLEDGMENT_MESSAGES;
static {
    Map<String, BiFunction<OperationMode, OperationMode, String[]>> messages = new LinkedHashMap<>();
    messages.put(XPackField.SECURITY, XPackLicenseState::securityAcknowledgementMessages);
    messages.put(XPackField.WATCHER, XPackLicenseState::watcherAcknowledgementMessages);
messages.put(XPackField.MONITORING, XPackLicenseState::monitoringAcknowledgementMessages);
messages.put(XPackField.GRAPH, XPackLicenseState::graphAcknowledgementMessages);
messages.put(XPackField.MACHINE_LEARNING, XPackLicenseState::machineLearningAcknowledgementMessages);
messages.put(XPackField.LOGSTASH, XPackLicenseState::logstashAcknowledgementMessages);
messages.put(XPackField.BEATS, XPackLicenseState::beatsAcknowledgementMessages);
messages.put(XPackField.SQL, XPackLicenseState::sqlAcknowledgementMessages);
ACKNOWLEDGMENT_MESSAGES = Collections.unmodifiableMap(messages);
}

private static String[] securityAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] {
                        "The following X-Pack security functionality will be disabled: authentication, authorization, " +
                        "ip filtering, and auditing. Please restart your node after applying the license. ",
                        "Field and document level access control will be disabled.",
                        "Custom realms will be ignored."
                    };
            }
            break;
        case GOLD:
            switch (currentMode) {
                case BASIC:
                case STANDARD:
                    // ^^ though technically it was already disabled, it's not bad to remind them
                case TRIAL:
                case PLATINUM:
                    return new String[] {
                        "Field and document level access control will be disabled.",
                        "Custom realms will be ignored."
                    };
            }
            break;
        case STANDARD:
            switch (currentMode) {
                case BASIC:
                    // ^^ though technically it was already disabled, it's not bad to remind them
                case GOLD:
                case PLATINUM:
                case TRIAL:
                    return new String[] {

```
"Authentication will be limited to the native realms.\n"IP filtering and auditing will be disabled.\n"Field and document level access control will be disabled.\n"Custom realms will be ignored.\n};
}
}
return Strings.EMPTY_ARRAY;
}

private static String[] watcherAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
    case BASIC:
        switch (currentMode) {
            case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] { "Watcher will be disabled" };
                }
        break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] monitoringAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
    case BASIC:
        switch (currentMode) {
            case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] {
                        LoggerMessageFormat.format(\n"Multi-cluster support is disabled for clusters with [{}] license. If you are\n"running multiple clusters, users won't be able to access the clusters with\n"[{}] licenses from within a single X-Pack Kibana instance. You will have to deploy a\n"separate and dedicated X-pack Kibana instance for each [{}] cluster you wish to monitor.\n", newMode, newMode, newMode),
                        LoggerMessageFormat.format(\n"Automatic index cleanup is locked to {} days for clusters with [{}] license.\n", MonitoringField.HISTORY_DURATION.getDefault(Settings.EMPTY).days(), newMode)
                    };
                }
        break;
    }
    return Strings.EMPTY_ARRAY;
}
return Strings.EMPTY_ARRAY;
}

private static String[] graphAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
        case STANDARD:
        case GOLD:
            switch (currentMode) {
                case TRIAL:
                case PLATINUM:
                    return new String[] { "Graph will be disabled" };
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] machineLearningAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
        case STANDARD:
        case GOLD:
            switch (currentMode) {
                case TRIAL:
                case PLATINUM:
                    return new String[] { "Machine learning will be disabled" };
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] logstashAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            if (isBasic(currentMode) == false) {
                return new String[] { "Logstash will no longer poll for centrally-managed pipelines" };
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}
private static String[] beatsAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            if (isBasic(currentMode) == false) {
                return new String[] { "Beats will no longer be able to use centrally-managed configuration" };
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] sqlAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            return Strings.EMPTY_ARRAY;
        case STANDARD:
            case GOLD:
                switch (currentMode) {
                    case TRIAL:
                        case PLATINUM:
                            return new String[] {
                                "JDBC and ODBC support will be disabled, but you can continue to use SQL CLI and REST endpoint" }
                            ;
                }
                break;
    }
    return Strings.EMPTY_ARRAY;
}

private static boolean isBasic(OperationMode mode) {
    return mode == OperationMode.BASIC;
}

/** A wrapper for the license mode and state, to allow atomically swapping. */
private static class Status {
    /** The current "mode" of the license (ie license type). */
    final OperationMode mode;
    /** True if the license is active, or false if it is expired. */
    final boolean active;

    Status(OperationMode mode, boolean active) {
        this.mode = mode;
        this.active = active;
    }
}
private final List<LicenseStateListener> listeners;
private final boolean isSecurityEnabled;
private final boolean isSecurityExplicitlyEnabled;

private Status status = new Status(OperationMode.TRIAL, true);
private boolean isSecurityEnabledByTrialVersion;

public XPackLicenseState(Settings settings) {
    this.listeners = new CopyOnWriteArrayList<>();
    this.isSecurityEnabled = XPackSettings.SECURITY_ENABLED.get(settings);
    // 6.0+ requires TLS for production licenses, so if TLS is enabled and security is enabled
    // we can interpret this as an explicit enabling of security if the security enabled
    // setting is not explicitly set
    this.isSecurityExplicitlyEnabled = isSecurityEnabled &&
            (settings.hasValue(XPackSettings.SECURITY_ENABLED.getKey()) ||
                XPackSettings.TRANSPORT_SSL_ENABLED.get(settings));
    this.isSecurityEnabledByTrialVersion = false;
}

private XPackLicenseState(XPackLicenseState xPackLicenseState) {
    this.listeners = xPackLicenseState.listeners;
    this.isSecurityEnabled = xPackLicenseState.isSecurityEnabled;
    this.isSecurityExplicitlyEnabled = xPackLicenseState.isSecurityExplicitlyEnabled;
    this.status = xPackLicenseState.status;
    this.isSecurityEnabledByTrialVersion = xPackLicenseState.isSecurityEnabledByTrialVersion;
}

/**
 * Updates the current state of the license, which will change what features are available.
 * @param mode   The mode (type) of the current license.
 * @param active True if the current license exists and is within its allowed usage period; false if it is expired or
 *               missing.
 * @param mostRecentTrialVersion If this cluster has, at some point commenced a trial, the most recent version
 *                               on which they did that.
 *                               May be { @code null} if they have never generated a trial license on this cluster, or the most
 *                               recent
 *                               trial was prior to this metadata being tracked (6.1)
 */
void update(OperationMode mode, boolean active, @Nullable Version mostRecentTrialVersion) {
    synchronized (this) {
        status = new Status(mode, active);
        if (isSecurityEnabled == true && isSecurityExplicitlyEnabled == false && mode == OperationMode.TRIAL
            && isSecurityEnabledByTrialVersion == false) {
            // Before 6.3, Trial licenses would default having security enabled.
            // If this license was generated before that version, then treat it as if security is explicitly enabled
            if (mostRecentTrialVersion == null || mostRecentTrialVersion.before(Version.V_6_3_0)) {
                Loggers.getLogger(getClass()).info("Automatically enabling security for older trial license ({}),
            }
        }
    }
}
mostRecentTrialVersion == null ? "[pre 6.1.0]" : mostRecentTrialVersion.toString());
isSecurityEnabledByTrialVersion = true;
}
}
listeners.forEach(LicenseStateListener::licenseStateChanged);
/** Add a listener to be notified on license change */
public void addListener(final LicenseStateListener listener) {
    listeners.add(Objects.requireNonNull(listener));
}
/** Remove a listener */
public void removeListener(final LicenseStateListener listener) {
    listeners.remove(Objects.requireNonNull(listener));
}
/** Return the current license type. */
public synchronized OperationMode getOperationMode() {
    return status.mode;
}
/** Return true if the license is currently within its time boundaries, false otherwise. */
public synchronized boolean isActive() {
    return status.active;
}
/**
 * @return true if authentication and authorization should be enabled. this does not indicate what realms are available
 * @see #allowedRealmType() for the enabled realms
 */
public synchronized boolean isAuthAllowed() {
    OperationMode mode = status.mode;
    final boolean isSecurityCurrentlyEnabled =
        isSecurityEnabled(mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (mode == OperationMode.STANDARD || mode ==
        OperationMode.GOLD
         || mode == OperationMode.PLATINUM || mode == OperationMode.TRIAL);
}
/**
 * @return true if IP filtering should be enabled
 */
public synchronized boolean isIpFilteringAllowed() {
    OperationMode mode = status.mode;
    final boolean isSecurityCurrentlyEnabled =
isSecurityEnabled(mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
return isSecurityCurrentlyEnabled && (mode == OperationMode.GOLD || mode == OperationMode.PLATINUM || mode == OperationMode.TRIAL);
}

/**
 * @return true if auditing should be enabled
 */
public synchronized boolean isAuditingAllowed() {
    OperationMode mode = status.mode;
    final boolean isSecurityCurrentlyEnabled =
        isSecurityEnabled(mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (mode == OperationMode.GOLD || mode == OperationMode.PLATINUM || mode == OperationMode.TRIAL);
}

/**
 * Indicates whether the stats and health API calls should be allowed. If a license is expired and past the grace period then we deny these calls.
 *
 * @return true if the license allows for the stats and health APIs to be used.
 */
public synchronized boolean isStatsAndHealthAllowed() {
    return status.active;
}

/**
 * Determine if Document Level Security (DLS) and Field Level Security (FLS) should be enabled.
 *<p>
 * DLS and FLS are only disabled when the mode is not:
 *<ul>
 *<li>@link OperationMode#PLATINUM</li>
 *<li>@link OperationMode#TRIAL</li>
 *</ul>
 * Note: This does not consider the <em>state</em> of the license so that Security does not suddenly leak information!
 *
 * @return true to enable DLS and FLS. Otherwise false.
 */
public synchronized boolean isDocumentAndFieldLevelSecurityAllowed() {
    OperationMode mode = status.mode;
    final boolean isSecurityCurrentlyEnabled =
        isSecurityEnabled(mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (mode == OperationMode.TRIAL || mode == OperationMode.PLATINUM);
}

/** Classes of realms that may be available based on the license type. */
public enum AllowedRealmType {
    NONE,
    NATIVE,
    DEFAULT,
    ALL,
}

/**
 * @return the type of realms that are enabled based on the license (@link OperationMode)
 */
public synchronized AllowedRealmType allowedRealmType() {
    final boolean isSecurityCurrentlyEnabled =
            isSecurityEnabled(status.mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion,
            isSecurityEnabled);
    if (isSecurityCurrentlyEnabled) {
        switch (status.mode) {
            case PLATINUM:
            case TRIAL:
                return AllowedRealmType.ALL;
            case GOLD:
                return AllowedRealmType.DEFAULT;
            case STANDARD:
                return AllowedRealmType.NATIVE;
            default:
                return AllowedRealmType.NONE;
        }
    } else {
        return AllowedRealmType.NONE;
    }
}

/**
 * @return whether custom role providers are allowed based on the license (@link OperationMode)
 */
public synchronized boolean isCustomRoleProvidersAllowed() {
    final boolean isSecurityCurrentlyEnabled =
            isSecurityEnabled(status.mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion,
            isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (status.mode == OperationMode.PLATINUM || status.mode ==
            OperationMode.TRIAL)
            && status.active;
}

/**
 * @return whether "authorization_realms" are allowed based on the license (@link OperationMode)
 * @see org.elasticsearch.xpack.core.security.authc.support.DelegatedAuthorizationSettings
 */
public boolean isAuthorizationRealmAllowed() {
final Status localStatus = status;
return (localStatus.mode == OperationMode.PLATINUM || localStatus.mode == OperationMode.TRIAL)
&& localStatus.active;
}

/**
 * Determine if Watcher is available based on the current license.
 * <p>
 * Watcher is available if the license is active (hasn't expired) and of one of the following types:
 * <ul>
 * <li>{@link OperationMode#STANDARD}</li>
 * <li>{@link OperationMode#PLATINUM}</li>
 * <li>{@link OperationMode#GOLD}</li>
 * <li>{@link OperationMode#TRIAL}</li>
 * </ul>
 * @return {@code true} as long as the license is valid. Otherwise {@code false}.
 */
public synchronized boolean isWatcherAllowed() {
    Status localStatus = status;

    if (localStatus.active == false) {
        return false;
    }

    switch (localStatus.mode) {
    case TRIAL:
    case GOLD:
    case PLATINUM:
    case STANDARD:
        return true;
    default:
        return false;
    }
}

/**
 * Monitoring is always available as long as there is a valid license
 * @return true if the license is active
 */
public synchronized boolean isMonitoringAllowed() {
    return status.active;
}

/**
 * Monitoring Cluster Alerts requires the equivalent license to use Watcher.
 *
public synchronized boolean isMonitoringClusterAlertsAllowed() {
    return isWatcherAllowed();
}

/**
 * Determine if the current license allows the retention of indices to be modified.
 * <p>
 * Only users with a non-{@link OperationMode#BASIC} license can update the retention period.
 * <p>
 * Note: This does not consider the <em>state</em> of the license so that any change is remembered for when
 * they fix their license.
 * <p>
 * @return {@code true} if the user is allowed to modify the retention. Otherwise {@code false}.
 * @see #isWatcherAllowed()
 */
public synchronized boolean isUpdateRetentionAllowed() {
    final OperationMode mode = status.mode;
    return mode != OperationMode.BASIC && mode != OperationMode.MISSING;
}

/**
 * Determine if Graph Exploration should be enabled.
 * <p>
 * Exploration is only disabled when the license has expired or if the mode is not:
 * <ul>
 * <li>{@link OperationMode#PLATINUM}</li>
 * <li>{@link OperationMode#TRIAL}</li>
 * </ul>
 * <p>
 * @return {@code true} as long as the license is valid. Otherwise {@code false}.
 * @see #isGraphAllowed()
 */
public synchronized boolean isGraphAllowed() {
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
    OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

/**
 * Determine if Machine Learning should be enabled.
 * <p>
 * Machine Learning is only disabled when the license has expired or if the
 * mode is not:
 * <ul>
 * <li>{@link OperationMode#BASIC}</li>
 * <li>{@link OperationMode#MISSING}</li>
 * </ul>
 * <p>
 * @return {@code true} if the user is allowed to modify the retention. Otherwise {
 * @code false}. 
 * @see #isGraphAllowed()
 */
public synchronized boolean isMachineLearningAllowed() {
    final OperationMode mode = status.mode;
    return mode != OperationMode.BASIC && mode != OperationMode.MISSING;
}
* <ul>
*   <li>{@link OperationMode#PLATINUM}</li>
*   <li>{@link OperationMode#TRIAL}</li>
* </ul>

* @return {@code true} as long as the license is valid. Otherwise
*   {@code false}.
*/

public synchronized boolean isMachineLearningAllowed() {
    final Status currentStatus = status;
    return currentStatus.active && isMachineLearningAllowedForOperationMode(currentStatus.mode);
}

public static boolean isMachineLearningAllowedForOperationMode(final OperationMode operationMode) {
    return isPlatinumOrTrialOperationMode(operationMode);
}

/**
 * Rollup is always available as long as there is a valid license
 */
public synchronized boolean isRollupAllowed() {
    return status.active;
}

/**
 * Logstash is allowed as long as there is an active license of type TRIAL, STANDARD, GOLD or PLATINUM
 * @return {@code true} as long as there is a valid license
 */
public synchronized boolean isLogstashAllowed() {
    Status localStatus = status;
    return localStatus.active && (isBasic(localStatus.mode) == false);
}

/**
 * Beats is allowed as long as there is an active license of type TRIAL, STANDARD, GOLD or PLATINUM
 * @return {@code true} as long as there is a valid license
 */
public boolean isBeatsAllowed() {
    Status localStatus = status;
    return localStatus.active && (isBasic(localStatus.mode) == false);
}

/**
 * Deprecation APIs are always allowed as long as there is an active license
 * @return {@code true} as long as there is a valid license
 */
public synchronized boolean isDeprecationAllowed() {
    return status.active;
}

/**
 * Determine if Upgrade API should be enabled.
 * <p>
 * Upgrade API is not available in for all license types except \{@link OperationMode#MISSING\}
 * *
 * @return \{@code true\} as long as the license is valid. Otherwise
 *         \{@code false\}.
 */
public synchronized boolean isUpgradeAllowed() {
    // Should work on all active licenses
    return status.active;
}

/**
 * Determine if SQL support should be enabled.
 * <p>
 * SQL is available for all license types except \{@link OperationMode#MISSING\}
 */
public synchronized boolean isSqlAllowed() {
    return status.active;
}

/**
 * Determine if JDBC support should be enabled.
 * <p>
 * JDBC is available only in for \{@link OperationMode#PLATINUM\} and \{@link OperationMode#TRIAL\} licences
 */
public synchronized boolean isJdbcAllowed() {
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
    OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

/**
 * Determine if ODBC support should be enabled.
 * <p>
 * ODBC is available only in for \{@link OperationMode#PLATINUM\} and \{@link OperationMode#TRIAL\} licences
 */
public synchronized boolean isOdbcAllowed() {
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
    OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

public synchronized boolean isTrialLicense() {
    return status.mode == OperationMode.TRIAL;
}

/**
 * @return true if security is available to be used with the current license type
 */
public synchronized boolean isSecurityAvailable() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM || mode ==
    OperationMode.STANDARD ||
    mode == OperationMode.TRIAL;
}

/**
 * @return true if security has been disabled by a trial license which is the case of the
 *         default distribution post 6.3.0. The conditions necessary for this are:
 *         <ul>
 *             <li>A trial license generated in 6.3.0+</li>
 *             <li>xpack.security.enabled not specified as a setting</li>
 *         </ul>
 * 
 */
public synchronized boolean isSecurityDisabledByTrialLicense() {
    return status.mode == OperationMode.TRIAL && isSecurityEnabled
    && isSecurityExplicitlyEnabled == false
    && isSecurityEnabledByTrialVersion == false;
}

private static boolean isSecurityEnabled(final OperationMode mode, final boolean isSecurityExplicitlyEnabled,
    final boolean isSecurityEnabledByTrialVersion, final boolean isSecurityEnabled) {
    return mode == OperationMode.TRIAL ? (isSecurityExplicitlyEnabled || isSecurityEnabledByTrialVersion) :
    isSecurityEnabled;
}

/**
 * Determine if cross-cluster replication should be enabled.
 */
* Cross-cluster replication is only disabled when the license has expired or if the mode is not:
* <ul>
* <li>{@link OperationMode#PLATINUM}</li>
* <li>{@link OperationMode#TRIAL}</li>
* </ul>
* @return true is the license is compatible, otherwise false
*/
public synchronized boolean isCcrAllowed() {
    final Status currentStatus = status;
    return currentStatus.active && isCcrAllowedForOperationMode(currentStatus.mode);
}

public static boolean isCcrAllowedForOperationMode(final OperationMode operationMode) {
    return isPlatinumOrTrialOperationMode(operationMode);
}

public static boolean isPlatinumOrTrialOperationMode(final OperationMode operationMode) {
    return operationMode == OperationMode.PLATINUM || operationMode == OperationMode.TRIAL;
}

/**
* Creates a copy of this object based on the state at the time the method was called. The
* returned object will not be modified by a license update/expiration so it can be used to
* make multiple method calls on the license state safely. This object should not be long
* lived but instead used within a method when a consistent view of the license state
* is needed for multiple interactions with the license state.
* /
public synchronized XPackLicenseState copyCurrentLicenseState() {
    return new XPackLicenseState(this);
}

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
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```
import org.elasticsearch.gradle.test.RestIntegTestTask

apply plugin: 'elasticsearch.standalone-test'

dependencies {
    testCompile project(path: xpackModule('core'), configuration: 'testArtifacts')
    testCompile project(path: xpackModule('ccr'), configuration: 'runtime')
    testCompile project(':x-pack:plugin:ccr:qa:')
}

task leaderClusterTest(type: RestIntegTestTask) {
    mustRunAfter(precommit)
}

leaderClusterTestCluster {
    numNodes = 1
    clusterName = 'leader-cluster'
}

leaderClusterTestRunner {
    systemProperty 'tests.target_cluster', 'leader'
}

task followClusterTest(type: RestIntegTestTask) {}

followClusterTestCluster {
    dependsOn leaderClusterTestRunner
    numNodes = 1
    clusterName = 'follow-cluster'
    setting 'xpack.license.self_generated.type', 'trial'
    setting 'cluster.remote.leader_cluster.seeds', "$\{}\rightarrow leaderClusterTest.nodes.get(0).transportUri()\""
}

followClusterTestRunner {
    systemProperty 'tests.target_cluster', 'follow'
    systemProperty 'tests.leader_host', "$\{}\rightarrow leaderClusterTest.nodes.get(0).httpUri()\""
    finalizedBy 'leaderClusterTestCluster#stop'
}

check.dependsOn followClusterTest
```
test.enabled = false
/*
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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.license;

import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.Base64;
import java.util.Comparator;
import java.util.List;
import java.util.Locale;
import org.apache.lucene.util.CollectionUtil;
import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.ElasticsearchParseException;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.LoggingDeprecationHandler;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.ToXContentObject;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.protocol.xpack.license.LicenseStatus;

/**
* Data structure for license. Use { @link Builder} to build a license.
* Provides serialization/deserialization & validation methods for license object
*/
public class License implements ToXContentObject {
    public static final int VERSION_START = 1;
    public static final int VERSION_NO_FEATURE_TYPE = 2;
    public static final int VERSION_START_DATE = 3;
    public static final int VERSION_CRYPTO_ALGORITHMS = 4;
    public static final int VERSION_CURRENT = VERSION_CRYPTO_ALGORITHMS;

    /**
    * XContent param name to deserialize license(s) with
    * an additional <code>status</code> field, indicating whether a
/**
 * particular license is 'active' or 'expired' and no signature
 * and in a human readable format
 */

public static final String REST_VIEW_MODE = "rest_view";
/**
 * XContent param name to deserialize license(s) with
 * no signature
 */

public static final String LICENSE_SPEC_VIEW_MODE = "license_spec_view";
/**
 * XContent param name to deserialize licenses according
 * to a specific license version
 */

public static final String LICENSE_VERSION_MODE = "license_version";

public static final Comparator<License> LATEST_ISSUE_DATE_FIRST =
Comparator.comparing(License::issueDate).reversed();

private final int version;
private final String uid;
private final String issuer;
private final String issuedTo;
private final long issueDate;
private final String type;
private final String subscriptionType;
private final String feature;
private final String signature;
private final long expiryDate;
private final long startDate;
private final int maxNodes;
private final OperationMode operationMode;

/**
 * Decouples operation mode of a license from the license type value.
 * <p>
 * Note: The mode indicates features that should be made available, but it does not indicate whether the license is
 * active!
 * <p>
 * The id byte is used for ordering operation modes (used for merging license md in tribe node)
 */

public enum OperationMode {
    MISSING((byte) 0),
    TRIAL((byte) 1),
    BASIC((byte) 2),
    STANDARD((byte) 3),
    GOLD((byte) 4),
    PLATINUM((byte) 5);
private final byte id;

OperationMode(byte id) {
    this.id = id;
}

/** Returns non-zero positive number when <code>opMode1</code> is greater than <code>opMode2</code> */
public static int compare(OperationMode opMode1, OperationMode opMode2) {
    return Integer.compare(opMode1.id, opMode2.id);
}

public static OperationMode resolve(String type) {
    switch (type.toLowerCase(Locale.ROOT)) {
    case "missing":
        return MISSING;
    case "trial":
    case "none": // bwc for 1.x subscription_type field
    case "dev": // bwc for 1.x subscription_type field
    case "development": // bwc for 1.x subscription_type field
        return TRIAL;
    case "basic":
        return BASIC;
    case "standard":
        return STANDARD;
    case "silver":
    case "gold":
        return GOLD;
    case "platinum":
    case "cloud_internal":
    case "internal": // bwc for 1.x subscription_type field
        return PLATINUM;
    default:
        throw new IllegalArgumentException("unknown type [" + type + "]");
    }
}

private License(int version, String uid, String issuer, String issuedTo, long issueDate, String type,
    String subscriptionType, String feature, String signature, long expiryDate, int maxNodes, long startDate) {
    this.version = version;
    this.uid = uid;
    this.issuer = issuer;
    this.issuedTo = issuedTo;
    this.issueDate = issueDate;
    this.type = type;
    this.subscriptionType = subscriptionType;
}
this.feature = feature;
this.signature = signature;

// We will validate that only a basic license can have the
BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS
// in the validate() method.
if (expiryDate == -1) {
    this.expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
} else {
    this.expiryDate = expiryDate;
}

this.maxNodes = maxNodes;
this.startDate = startDate;

if (version == VERSION_START) {
    // in 1.x: the acceptable values for 'subscription_type': none | dev | silver | gold | platinum
    this.operationMode = OperationMode.resolve(subscriptionType);
} else {
    // in 2.x: the acceptable values for 'type': trial | basic | silver | dev | gold | platinum
    this.operationMode = OperationMode.resolve(type);
}

validate();

/**
 * @return version of the license
 */
public int version() {
    return version;
}

/**
 * @return a unique identifier for a license
 */
public String uid() {
    return uid;
}

/**
 * @return type of the license [trial, subscription, internal]
 */
public String type() {
    return type;
}

/**
 * @return the issueDate in milliseconds
 */
public long issueDate() {
    return issueDate;
/**
 * @return the startDate in milliseconds
 */
public long startDate() {
    return startDate;
}

/**
 * @return the expiry date in milliseconds
 */
public long expiryDate() {
    return expiryDate;
}

/**
 * @return the maximum number of nodes this license has been issued for
 */
public int maxNodes() {
    return maxNodes;
}

/**
 * @return a string representing the entity this license has been issued to
 */
public String issuedTo() {
    return issuedTo;
}

/**
 * @return a string representing the entity responsible for issuing this license (internal)
 */
public String issuer() {
    return issuer;
}

/**
 * @return a string representing the signature of the license used for license verification
 */
public String signature() {
    return signature;
}

/**
 * @return the operation mode of the license as computed from the license type or from
 * the license mode file
 */
public OperationMode operationMode() {
    synchronized (this) {
        if (canReadOperationModeFromFile() && operationModeFileWatcher != null) {
            return operationModeFileWatcher.getCurrentOperationMode();
        }
    }
    return operationMode;
}

private boolean canReadOperationModeFromFile() {
    return type.equals("cloud_internal");
}

private volatile OperationModeFileWatcher operationModeFileWatcher;

/**
 * Sets the operation mode file watcher for the license and initializes the
 * file watcher when the license type allows to override operation mode from file
 */
public synchronized void setOperationModeFileWatcher(final OperationModeFileWatcher operationModeFileWatcher) {
    this.operationModeFileWatcher = operationModeFileWatcher;
    if (canReadOperationModeFromFile()) {
        this.operationModeFileWatcher.init();
    }
}

/**
 * Removes operation mode file watcher, so unused license objects can be gc'ed
 */
public synchronized void removeOperationModeFileWatcher() {
    this.operationModeFileWatcher = null;
}

/**
 * @return the current license's status
 */
public LicenseStatus status() {
    long now = System.currentTimeMillis();
    if (issueDate > now) {
        return LicenseStatus.INVALID;
    } else if (expiryDate < now) {
        return LicenseStatus.EXPIRED;
    } else if (canReadOperationModeFromFile()) {
        return LicenseStatus.ACTIVE;
    }
}

private void validate() {
}
if (issuer == null) {
    throw new IllegalStateException("issuer can not be null");
} else if (issuedTo == null) {
    throw new IllegalStateException("issuedTo can not be null");
} else if (issueDate == -1) {
    throw new IllegalStateException("issueDate has to be set");
} else if (type == null) {
    throw new IllegalStateException("type can not be null");
} else if (subscriptionType == null && version == VERSION_START) {
    throw new IllegalStateException("subscriptionType can not be null");
} else if (uid == null) {
    throw new IllegalStateException("uid can not be null");
} else if (feature == null && version == VERSION_START) {
    throw new IllegalStateException("feature can not be null");
} else if (maxNodes == -1) {
    throw new IllegalStateException("maxNodes has to be set");
} else if (expiryDate == -1) {
    throw new IllegalStateException("expiryDate has to be set");
} else if (expiryDate == LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS && "basic".equals(type) == false) {
    throw new IllegalStateException("only basic licenses are allowed to have no expiration");
}

public static License readLicense(StreamInput in) throws IOException {
    int version = in.readVInt(); // Version for future extensibility
    if (version > VERSION_CURRENT) {
        throw new ElasticsearchException("Unknown license version found, please upgrade all nodes to the latest elasticsearch-license" +
            " plugin");
    }
    Builder builder = builder();
    builder.version(version);
    builder.uid(in.readString());
    builder.type(in.readString());
    if (version == VERSION_START) {
        builder.subscriptionType(in.readString());
    }
    builder.issueDate(in.readLong());
    if (version == VERSION_START) {
        builder.feature(in.readString());
    }
    builder.expiryDate(in.readLong());
    builder.maxNodes(in.readInt());
    builder.issuedTo(in.readString());
    builder.issuer(in.readString());
    builder.signature(in.readOptionalString());
    if (version >= VERSION_START_DATE) {
builder.startDate(in.readLong());
}
return builder.build();

public void writeTo(StreamOutput out) throws IOException {
    out.writeVInt(version);
    out.writeString(uid);
    out.writeString(type);
    if (version == VERSION_START) {
        out.writeString(subscriptionType);
    }
    out.writeLong(issueDate);
    if (version == VERSION_START) {
        out.writeString(feature);
    }
    out.writeLong(expiryDate);
    out.writeInt(maxNodes);
    out.writeString(issuedTo);
    out.writeString(issuer);
    out.writeOptionalString(signature);
    if (version >= VERSION_START_DATE) {
        out.writeLong(startDate);
    }
}

@Override
public String toString() {
    try {
        final XContentBuilder builder = XContentFactory.jsonBuilder();
        toXContent(builder, ToXContent.EMPTY_PARAMS);
        return Strings.toString(builder);
    } catch (IOException e) {
        return "";
    }
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    builder.startObject();
    toInnerXContent(builder, params);
    builder.endObject();
    return builder;
}

public XContentBuilder toInnerXContent(XContentBuilder builder, Params params) throws IOException {
    boolean licenseSpecMode = params.paramAsBoolean(LICENSE_SPEC_VIEW_MODE, false);
    boolean restViewMode = params.paramAsBoolean(REST_VIEW_MODE, false);
boolean previouslyHumanReadable = builder.humanReadable();
if (licenseSpecMode && restViewMode) {
    throw new IllegalArgumentException("can have either " + REST_VIEW_MODE + " or " + LICENSE_SPEC_VIEW_MODE);
} else if (restViewMode) {
    if (!previouslyHumanReadable) {
        builder.humanReadable(true);
    }
}

final int version;
if (params.param/LICENSE_VERSION_MODE) != null && restViewMode) {
    version = Integer.parseInt(params.param/LICENSE_VERSION_MODE));
} else {
    version = this.version;
}
if (restViewMode) {
    builder.field(Fields.STATUS, status().label());
}
builder.field(Fields.UID, uid);
builder.field(Fields.TYPE, type);
if (version == VERSION_START) {
    builder.field(Fields.SUBSCRIPTION_TYPE, subscriptionType);
}
builder.timeField(Fields.ISSUE_DATE_IN_MILLIS, Fields.ISSUE_DATE, issueDate);
if (version == VERSION_START) {
    builder.field(Fields.FEATURE, feature);
}
if (expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
    builder.timeField(Fields.EXPIRY_DATE_IN_MILLIS, Fields.EXPIRY_DATE, expiryDate);
}
builder.field(Fields.MAX_NODES, maxNodes);
builder.field(Fields.ISSUED_TO, issueto);
builder.field(Fields.ISSUER, issuer);
if (!licenseSpecMode && !restViewMode && signature != null) {
    builder.field(Fields.SIGNATURE, signature);
}
if (restViewMode) {
    builder.humanReadable(previouslyHumanReadable);
}
if (version >= VERSION_START_DATE) {
    builder.timeField(Fields.START_DATE_IN_MILLIS, Fields.START_DATE, startDate);
}
return builder;

public static License fromXContent(XContentParser parser) throws IOException {
    Builder builder = new Builder();

XContentParser.Token token;
while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
    if (token == XContentParser.Token.FIELD_NAME) {
        String currentFieldName = parser.currentName();
        token = parser.nextToken();
        if (token.isValue()) {
            if (Fields.UID.equals(currentFieldName)) {
                builder.uid(parser.text());
            } else if (Fields.TYPE.equals(currentFieldName)) {
                builder.type(parser.text());
            } else if (Fields.SUBSCRIPTION_TYPE.equals(currentFieldName)) {
                builder.subscriptionType(parser.text());
            } else if (Fields.ISSUE_DATE.equals(currentFieldName)) {
                builder.issueDate(parseDate(parser, "issue", false));
            } else if (Fields.ISSUE_DATE_IN_MILLIS.equals(currentFieldName)) {
                builder.issueDate(parser.longValue());
            } else if (Fields.FEATURE.equals(currentFieldName)) {
                builder.feature(parser.text());
            } else if (Fields.EXPIRY_DATE.equals(currentFieldName)) {
                builder.expiryDate(parseDate(parser, "expiration", true));
            } else if (Fields.EXPIRY_DATE_IN_MILLIS.equals(currentFieldName)) {
                builder.expiryDate(parser.longValue());
            } else if (Fields.START_DATE.equals(currentFieldName)) {
                builder.startDate(parseDate(parser, "start", false));
            } else if (Fields.START_DATE_IN_MILLIS.equals(currentFieldName)) {
                builder.startDate(parser.longValue());
            } else if (Fields.MAX_NODES.equals(currentFieldName)) {
                builder.maxNodes(parser.intValue());
            } else if (Fields.ISSUED_TO.equals(currentFieldName)) {
                builder.issuedTo(parser.text());
            } else if (Fields.ISSUER.equals(currentFieldName)) {
                builder.issuer(parser.text());
            } else if (Fields.SIGNATURE.equals(currentFieldName)) {
                builder.signature(parser.text());
            } else if (Fields.VERSION.equals(currentFieldName)) {
                builder.version(parser.intValue());
            }
        // Ignore unknown elements - might be new version of license
        } else if (token == XContentParser.Token.START_ARRAY) {
            // It was probably created by newer version - ignoring
            parser.skipChildren();
        } else if (token == XContentParser.Token.START_OBJECT) {
            // It was probably created by newer version - ignoring
            parser.skipChildren();
        }
    }
}
// not a license spec
if (builder.signature != null) {
    byte[] signatureBytes = Base64.getDecoder().decode(builder.signature);
    ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
    int version = byteBuffer.getInt();
    // we take the absolute version, because negative versions
    // mean that the license was generated by the cluster (see TrialLicense)
    // and positive version means that the license was signed
    if (version < 0) {
        version *= -1;
    }
    if (version == 0) {
        throw new ElasticsearchException("malformed signature for license [" + builder.uid + "]");
    } else if (version > VERSION_CURRENT) {
        throw new ElasticsearchException("Unknown license version found, please upgrade all nodes to the latest
" +
            "elasticsearch-license plugin");
    }
    // signature version is the source of truth
    builder.version(version);
}
return builder.build();

/**
 * Returns true if the license was auto-generated (by license plugin),
 * false otherwise
 */
public static boolean isAutoGeneratedLicense(String signature) {
    try {
        byte[] signatureBytes = Base64.getDecoder().decode(signature);
        ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
        return byteBuffer.getInt() < 0;
    } catch (IllegalArgumentException e) {
        throw new IllegalStateException(e);
    }
}

public static License fromSource(BytesReference bytes, XContentType xContentType) throws IOException {
    if (bytes == null || bytes.length() == 0) {
        throw new ElasticsearchParseException("failed to parse license - no content provided");
    }
    if (xContentType == null) {
        throw new ElasticsearchParseException("failed to parse license - no content-type provided");
    }
    // EMPTY is safe here because we don't call namedObject
    try (InputStream byteStream = bytes.streamInput();
        XContentParser parser = xContentType.xContent().createParser(NamedXContentRegistry.EMPTY, LoggingDeprecationHandler.INSTANCE, byteStream)) {
    }
}
License license = null;
if (parser.nextToken() == XContentParser.Token.START_OBJECT) {
    if (parser.nextToken() == XContentParser.Token.FIELD_NAME) {
        String currentFieldName = parser.currentName();
        if (Fields.LICENSES.equals(currentFieldName)) {
            final List<License> pre20Licenses = new ArrayList<>();
            if (parser.nextToken() == XContentParser.Token.START_ARRAY) {
                while (parser.nextToken() != XContentParser.Token.END_ARRAY) {
                    pre20Licenses.add(License.fromXContent(parser));
                }
            // take the latest issued unexpired license
            CollectionUtil.timSort(pre20Licenses, LATEST_ISSUE_DATE_FIRST);
            long now = System.currentTimeMillis();
            for (License oldLicense : pre20Licenses) {
                if (oldLicense.expiryDate() > now) {
                    license = oldLicense;
                    break;
                }
            }
            if (license == null && !pre20Licenses.isEmpty()) {
                license = pre20Licenses.get(0);
            } else {
                throw new ElasticsearchParseException("failed to parse licenses expected an array of licenses");
            }
        } else if (Fields.LICENSE.equals(currentFieldName)) {
            license = License.fromXContent(parser);
        }
        // Ignore all other fields - might be created with new version
        } else {
            throw new ElasticsearchParseException("failed to parse licenses expected field");
        }
    } else {
        throw new ElasticsearchParseException("failed to parse licenses expected start object");
    }
}
return license;

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    License license = (License) o;

    if (issueDate != license.issueDate) return false;
    return true;
}
if (expiryDate != license.expiryDate) return false;
if (startDate != license.startDate) return false;
if (maxNodes != license.maxNodes) return false;
if (version != license.version) return false;
if (uid != null ? !uid.equals(license.uid) : license.uid != null) return false;
if (issuer != null ? !issuer.equals(license.issuer) : license.issuer != null) return false;
if (issuedTo != null ? !issuedTo.equals(license.issuedTo) : license.issuedTo != null) return false;
if (type != null ? !type.equals(license.type) : license.type != null) return false;
if (subscriptionType != null ? !subscriptionType.equals(license.subscriptionType) : license.subscriptionType != null)
    return false;
if (feature != null ? !feature.equals(license.feature) : license.feature != null) return false;
return !(signature != null ? !signature.equals(license.signature) : license.signature != null);

@Override
public int hashCode() {
    int result = uid != null ? uid.hashCode() : 0;
    result = 31 * result + (issuer != null ? issuer.hashCode() : 0);
    result = 31 * result + (issuedTo != null ? issuedTo.hashCode() : 0);
    result = 31 * result + (int) (issueDate ^ (issueDate >>> 32));
    result = 31 * result + (type != null ? type.hashCode() : 0);
    result = 31 * result + (subscriptionType != null ? subscriptionType.hashCode() : 0);
    result = 31 * result + (feature != null ? feature.hashCode() : 0);
    result = 31 * result + (signature != null ? signature.hashCode() : 0);
    result = 31 * result + (int) (expiryDate ^ (expiryDate >>> 32));
    result = 31 * result + (int) (startDate ^ (startDate >>> 32));
    result = 31 * result + maxNodes;
    result = 31 * result + version;
    return result;
}

public static final class Fields {
    public static final String STATUS = "status";
    public static final String UID = "uid";
    public static final String TYPE = "type";
    public static final String SUBSCRIPTION_TYPE = "subscription_type";
    public static final String ISSUE_DATE_IN_MILLIS = "issue_date_in_millis";
    public static final String ISSUE_DATE = "issue_date";
    public static final String FEATURE = "feature";
    public static final String EXPIRY_DATE_IN_MILLIS = "expiry_date_in_millis";
    public static final String EXPIRY_DATE = "expiry_date";
    public static final String START_DATE_IN_MILLIS = "start_date_in_millis";
    public static final String START_DATE = "start_date";
    public static final String MAX_NODES = "max_nodes";
    public static final String ISSUED_TO = "issued_to";
    public static final String ISSUER = "issuer";
public static final String VERSION = "version";
public static final String SIGNATURE = "signature";

public static final String LICENSES = "licenses";
public static final String LICENSE = "license";

private static long parseDate(XContentParser parser, String description, boolean endOfTheDay) throws IOException {
    if (parser.currentToken() == XContentParser.Token.VALUE_NUMBER) {
        return parser.longValue();
    } else {
        try {
            if (endOfTheDay) {
                return DateUtils.endOfTheDay(parser.text());
            } else {
                return DateUtils.beginningOfDay(parser.text());
            }
        } catch (IllegalArgumentException ex) {
            throw new ElasticsearchParseException("invalid " + description + " date format " + parser.text());
        }
    }
}

public static Builder builder() {
    return new Builder();
}

public static class Builder {
    private int version = License.VERSION_CURRENT;
    private String uid;
    private String issuer;
    private String issuedTo;
    private long issueDate = -1;
    private String type;
    private String subscriptionType;
    private String feature;
    private String signature;
    private long expiryDate = -1;
    private long startDate = -1;
    private int maxNodes = -1;

    public Builder uid(String uid) {
        this.uid = uid;
        return this;
    }
public Builder version(int version) {
    this.version = version;
    return this;
}

public Builder issuer(String issuer) {
    this.issuer = issuer;
    return this;
}

public Builder issuedTo(String issuedTo) {
    this.issuedTo = issuedTo;
    return this;
}

public Builder issueDate(long issueDate) {
    this.issueDate = issueDate;
    return this;
}

public Builder type(String type) {
    this.type = type;
    return this;
}

public Builder subscriptionType(String subscriptionType) {
    this.subscriptionType = subscriptionType;
    return this;
}

public Builder feature(String feature) {
    this.feature = feature;
    return this;
}

public Builder expiryDate(long expiryDate) {
    this.expiryDate = expiryDate;
    return this;
}

public Builder maxNodes(int maxNodes) {
    this.maxNodes = maxNodes;
    return this;
}

public Builder signature(String signature) {
    if (signature != null) {
        this.signature = signature;
    }
}
public Builder startDate(long startDate) {
    this.startDate = startDate;
    return this;
}

public Builder fromLicenseSpec(License license, String signature) {
    return uid(license.uid())
        .version(license.version())
        .issuedTo(license.issuedTo())
        .issueDate(license.issueDate())
        .startDate(license.startDate())
        .type(license.type())
        .subscriptionType(license.subscriptionType)
        .feature(license.feature)
        .maxNodes(license.maxNodes())
        .expiryDate(license.expiryDate())
        .issuer(license.issuer())
        .signature(signature);
}

/**
 * Returns a builder that converts pre 2.0 licenses
 * to the new license format
 */

public Builder fromPre20LicenseSpec(License pre20License) {
    return uid(pre20License.uid())
        .issuedTo(pre20License.issuedTo())
        .issueDate(pre20License.issueDate())
        .maxNodes(pre20License.maxNodes())
        .expiryDate(pre20License.expiryDate());
}

public License build() {
    return new License(version, uid, issuer, issuedTo, issueDate, type,
        subscriptionType, feature, signature, expiryDate, maxNodes, startDate);
}

public Builder validate() {
    if (issuer == null) {
        throw new IllegalStateException("issuer can not be null");
    } else if (issuedTo == null) {
        throw new IllegalStateException("issuedTo can not be null");
    } else if (issueDate == -1) {
        throw new IllegalStateException("issueDate has to be set");
    }
} else if (type == null) {
    throw new IllegalStateException("type can not be null");
} else if (uid == null) {
    throw new IllegalStateException("uid can not be null");
} else if (signature == null) {
    throw new IllegalStateException("signature can not be null");
} else if (maxNodes == -1) {
    throw new IllegalStateException("maxNodes has to be set");
} else if (expiryDate == -1) {
    throw new IllegalStateException("expiryDate has to be set");
}

return this;

/**
 * Returns <code>true</code> iff the license is a production license
 */
public boolean isProductionLicense() {
    switch (operationMode()) {
        case MISSING:
        case TRIAL:
        case BASIC:
            return false;
        case STANDARD:
        case GOLD:
        case PLATINUM:
            return true;
        default:
            throw new AssertionError("unknown operation mode: " + operationMode());
    }
}

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/*
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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;
  }

}
import org.elasticsearch.xpack.core.security.authz.privilege.ApplicationPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.ApplicationPrivilegeDescriptor;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.Set;
import java.util.stream.Collectors;
import java.util.stream.Stream;
import static java.util.Collections.singletonList;
import static org.hamcrest.Matchers.containsInAnyOrder;
import static org.hamcrest.Matchers.equalTo;

public class ApplicationPermissionTests extends ESTestCase {

    private List<ApplicationPrivilegeDescriptor> store = new ArrayList<>();

    private ApplicationPrivilege app1All = storePrivilege("app1", "all", "+*");
    private ApplicationPrivilege app1Empty = storePrivilege("app1", "empty");
    private ApplicationPrivilege app1Read = storePrivilege("app1", "read", "read/*");
    private ApplicationPrivilege app1Write = storePrivilege("app1", "write", "write/*");
    private ApplicationPrivilege app1Delete = storePrivilege("app1", "delete", "write/delete");
    private ApplicationPrivilege app1Create = storePrivilege("app1", "create", "write/create");
    private ApplicationPrivilege app2Read = storePrivilege("app2", "read", "read/*");

    private ApplicationPrivilege storePrivilege(String app, String name, String... patterns) {
        store.add(new ApplicationPrivilegeDescriptor(app, name, Sets.newHashSet(patterns), Collections.emptyMap()));
        return new ApplicationPrivilege(app, name, patterns);
    }

    public void testCheckSimplePermission() {
        final ApplicationPermission hasPermission = buildPermission(app1Write, "+*");
        assertThat(hasPermission.grants(app1Write, "*"), equalTo(true));
        assertThat(hasPermission.grants(app1Write, "foo"), equalTo(true));
        assertThat(hasPermission.grants(app1Delete, "*"), equalTo(true));
    }
}

package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.util.set.Sets;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.privilege.ApplicationPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.ApplicationPrivilegeDescriptor;

import java.util.List;
import java.util.Arrays;
import java.util.Collections;
import java.util.Set;
import java.util.stream.Collectors;
import java.util.stream.Stream;
import static java.util.Collections.singletonList;
import static org.hamcrest.Matchers.containsInAnyOrder;
import static org.hamcrest.Matchers.equalTo;

assertThat(hasPermission.grants(app1Create, "foo"), equalTo(true));

assertThat(hasPermission.grants(app1Read, "*"), equalTo(false));
assertThat(hasPermission.grants(app1Read, "foo"), equalTo(false));
assertThat(hasPermission.grants(app1All, "*"), equalTo(false));
assertThat(hasPermission.grants(app1All, "foo"), equalTo(false));
}

public void testNonePermission() {
    final ApplicationPermission hasPermission = buildPermission(ApplicationPrivilege.NONE.apply("app1"), "*");
    for (ApplicationPrivilege privilege : Arrays.asList(app1All, app1Empty, app1Create, app1Delete, app1Read, app1Write, app2Read)) {
        assertThat("Privilege " + privilege + " on *", hasPermission.grants(privilege, "*"), equalTo(false));
        final String resource = randomAlphaOfLengthBetween(1, 6);
        assertThat("Privilege " + privilege + " on " + resource, hasPermission.grants(privilege, resource), equalTo(false));
    }
}

public void testResourceMatching() {
    final ApplicationPermission hasPermission = buildPermission(app1All, "dashboard/*", "audit/**", "user/12345");

    assertThat(hasPermission.grants(app1Write, "*"), equalTo(false));
    assertThat(hasPermission.grants(app1Write, "dashboard"), equalTo(false));
    assertThat(hasPermission.grants(app1Write, "dashboard/999"), equalTo(true));

    assertThat(hasPermission.grants(app1Create, "audit/2018-02-21"), equalTo(true));
    assertThat(hasPermission.grants(app1Create, "report/2018-02-21"), equalTo(true));
    assertThat(hasPermission.grants(app1Create, "user/12345"), equalTo(true));
    assertThat(hasPermission.grants(app1Read, "user/12345"), equalTo(true));
    assertThat(hasPermission.grants(app1Read, "user/67890"), equalTo(true));
    assertThat(hasPermission.grants(app1All, "dashboard/999"), equalTo(true));
    assertThat(hasPermission.grants(app1All, "audit/2018-02-21"), equalTo(true));
    assertThat(hasPermission.grants(app1All, "user/12345"), equalTo(true));
}

public void testActionMatching() {
    final ApplicationPermission hasPermission = buildPermission(app1Write, "allow/*");

    final ApplicationPrivilege update = actionPrivilege("app1", "write/update");
    assertThat(hasPermission.grants(update, "allow/1"), equalTo(true));
    assertThat(hasPermission.grants(update, "deny/1"), equalTo(false));

    final ApplicationPrivilege updateCreate = actionPrivilege("app1", "write/update", "write/create");
    assertThat(hasPermission.grants(updateCreate, "allow/1"), equalTo(true));
    assertThat(hasPermission.grants(updateCreate, "deny/1"), equalTo(false));
final ApplicationPrivilege manage = actionPrivilege("app1", "admin/manage");
assertThat(hasPermission.grants(manage, "allow/1"), equalTo(false));
assertThat(hasPermission.grants(manage, "deny/1"), equalTo(false));
}

public void testDoesNotMatchAcrossApplications() {
    assertThat(buildPermission(app1Read, "*"), grants(app1Read, "123"), equalTo(true));
    assertThat(buildPermission(app1All, "*"), grants(app1Read, "123"), equalTo(true));

    assertThat(buildPermission(app1Read, "*"), grants(app2Read, "123"), equalTo(false));
    assertThat(buildPermission(app1All, "*"), grants(app2Read, "123"), equalTo(false));
}

public void testMergedPermissionChecking() {
    final ApplicationPrivilege app1ReadWrite = compositePrivilege("app1", app1Read, app1Write);
    final ApplicationPermission hasPermission = buildPermission(app1ReadWrite, "allow/*");

    assertThat(hasPermission.grants(app1Read, "allow/1"), equalTo(true));
    assertThat(hasPermission.grants(app1Write, "allow/1"), equalTo(true));
    assertThat(hasPermission.grants(app1Read, "deny/1"), equalTo(false));
    assertThat(hasPermission.grants(app1Write, "deny/1"), equalTo(false));
    assertThat(hasPermission.grants(app1All, "allow/1"), equalTo(false));
    assertThat(hasPermission.grants(app2Read, "allow/1"), equalTo(false));
}

public void testInspectPermissionContents() {
    final ApplicationPrivilege app1ReadWrite = compositePrivilege("app1", app1Read, app1Write);
    ApplicationPermission perm = new ApplicationPermission(Arrays.asList(
        new Tuple<>(app1Read, Sets.newHashSet("obj/1", "obj/2")),
        new Tuple<>(app1Write, Sets.newHashSet("obj/3", "obj/4")),
        new Tuple<>(app1ReadWrite, Sets.newHashSet("obj/5")),
        new Tuple<>(app1All, Sets.newHashSet("obj/6", "obj/7")),
        new Tuple<>(app2Read, Sets.newHashSet("obj/1", "obj/8"))
    ));
    assertThat(perm.getApplicationNames(), containsInAnyOrder("app1", "app2"));
    assertThat(perm.getPrivileges("app1"), containsInAnyOrder(app1Read, app1Write, app1ReadWrite, app1All));
    assertThat(perm.getPrivileges("app2"), containsInAnyOrder(app2Read));
    assertThat(perm.getResourcePatterns(app1Read), containsInAnyOrder("obj/1", "obj/2", "obj/5", "obj/6", "obj/7"));
    assertThat(perm.getResourcePatterns(app1Write), containsInAnyOrder("obj/3", "obj/4", "obj/5", "obj/6", "obj/7"));
    assertThat(perm.getResourcePatterns(app1ReadWrite), containsInAnyOrder("obj/5", "obj/6", "obj/7"));
    assertThat(perm.getResourcePatterns(app1All), containsInAnyOrder("obj/6", "obj/7"));
    assertThat(perm.getResourcePatterns(app2Read), containsInAnyOrder("obj/1", "obj/8"));
    }

private ApplicationPrivilege actionPrivilege(String appName, String... actions) {
    return ApplicationPrivilege.get(appName, Sets.newHashSet(actions), Collections.emptyList());
}

private ApplicationPrivilege compositePrivilege(String application, ApplicationPrivilege... children) {
    Set<String> names = Stream.of(children).map(ApplicationPrivilege::name).flatMap(Set::stream).collect(Collectors.toSet());
    return ApplicationPrivilege.get(application, names, store);
}

private ApplicationPermission buildPermission(ApplicationPrivilege privilege, String... resources) {
    return new ApplicationPermission(singletonList(new Tuple<>(privilege, Sets.newHashSet(resources))));
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;

/**
 * Register license request builder
 */
public class PutLicenseRequestBuilder extends AcknowledgedRequestBuilder<PutLicenseRequest, PutLicenseResponse, PutLicenseRequestBuilder> {

    public PutLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, PutLicenseAction.INSTANCE);
    }

    /**
     * Constructs register license request
     *
     * @param client elasticsearch client
     */
    public PutLicenseRequestBuilder(ElasticsearchClient client, PutLicenseAction action) {
        super(client, action, new PutLicenseRequest());
    }
}
/**
 * Sets the license
 * @param license license
 * @return this builder
 */

public PutLicenseRequestBuilder setLicense(License license) {
    request.license(license);
    return this;
}

public PutLicenseRequestBuilder setLicense(BytesReference licenseSource, XContentType xContentType) {
    request.license(licenseSource, xContentType);
    return this;
}

public PutLicenseRequestBuilder setAcknowledge(boolean acknowledge) {
    request.acknowledge(acknowledge);
    return this;
}

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csr/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
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* */
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;
    }
}

import org.elasticsearch.gradle.test.RestIntegTestTask

apply plugin: 'elasticsearch.standalone-test'

dependencies {
    testCompile project(path: xpackModule('core'), configuration: 'testArtifacts')
    testCompile project(path: xpackModule('ccr'), configuration: 'runtime')
    testCompile project(':x-pack:plugin:ccr:qa')
}

task leaderClusterTest(type: RestIntegTestTask) {
    mustRunAfter(precommit)
}

leaderClusterTestCluster {
    numNodes = 1
    clusterName = 'leader-cluster'
    setting 'xpack.license.self_generated.type', 'trial'
}
leaderClusterTestRunner {
    systemProperty 'tests.target_cluster', 'leader'
}

task writeJavaPolicy {
    doLast {
        final File tmp = file("${buildDir}/tmp")
        if (tmp.exists() == false && tmp.mkdirs() == false) {
            throw new GradleException("failed to create temporary directory [${tmp}]")
        }
        final File javaPolicy = file("${tmp}/java.policy")
        javaPolicy.write(
            [
                "grant {",
                " permission java.io.FilePermission \\
                    "$\{-> followClusterTest.getNodes().get(0).homeDir}/logs/$\{->
                    followClusterTest.getNodes().get(0).clusterName}.log", \\
                    "read", \\
                    " ";",
                "};"
            ].join("\n"))
        }
    }
}

task followClusterTest(type: RestIntegTestTask) {}
followClusterTest.dependsOn writeJavaPolicy

followClusterTestCluster {
    dependsOn leaderClusterTestRunner
    numNodes = 1
    clusterName = 'follow-cluster'
    setting 'xpack.monitoring.collection.enabled', 'true'
    setting 'xpack.license.self_generated.type', 'trial'
    setting 'cluster.remote.leader_cluster.seeds', "\${-> leaderClusterTest.nodes.get(0).transportUri()}"
}

followClusterTestRunner {
    systemProperty 'java.security.policy', "file://${buildDir}/tmp/java.policy"
    systemProperty 'tests.target_cluster', 'follow'
    systemProperty 'tests.leader_host', "\${-> leaderClusterTest.nodes.get(0).httpUri()}"
    systemProperty 'log', "$\{-> followClusterTest.getNodes().get(0).homeDir}/logs/$\{->
        followClusterTest.getNodes().get(0).clusterName}.log"
    finalizedBy 'leaderClusterTestCluster#stop'
}

check.dependsOn followClusterTest

check.dependsOn followClusterTest

test.enabled = false // no unit tests for multi-cluster-search, only the rest integration test
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.ValidateActions;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentType;
import java.io.IOException;

public class PutLicenseRequest extends AcknowledgedRequest<PutLicenseRequest> {

    private License license;
    private boolean acknowledge = false;

    public PutLicenseRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return (license == null) ? ValidateActions.addValidationError("license is missing", null) : null;
    }

    /**
     * Parses license from json format to an instance of @link License
     *
     * @param licenseDefinition licenses definition
     * @param xContentType the content type of the license
     */
    public PutLicenseRequest license(BytesReference licenseDefinition, XContentType xContentType) {
        try {
            return license(License.fromSource(licenseDefinition, xContentType));
        } catch (IOException e) {
            throw new IllegalArgumentException("failed to parse license source", e);
        }
    }

    public PutLicenseRequest license(License license) {
        this.license = license;
        return this;
    }

    public License license() {
        return license;
    }
}
public PutLicenseRequest acknowledge(boolean acknowledge) {
    this.acknowledge = acknowledge;
    return this;
}

public boolean acknowledged() {
    return acknowledge;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    license = License.readLicense(in);
    acknowledge = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    license.writeTo(out);
    out.writeBoolean(acknowledge);
}

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 */
package org.elasticsearch.client.license;
import org.elasticsearch.client.TimedRequest;

public class StartBasicRequest extends TimedRequest {
    private final boolean acknowledge;

    public StartBasicRequest() {
        this(false);
    }

    public StartBasicRequest(boolean acknowledge) {
        this.acknowledge = acknowledge;
    }

    public boolean isAcknowledge() {
        return acknowledge;
    }
}

package org.elasticsearch.protocol.xpack.license;
import java.io.IOException;
import org.elasticsearch.test.ESTestCase;

public class LicenseStatusTests extends ESTestCase {
    public void testSerialization() throws IOException {
        LicenseStatus status = randomFrom(LicenseStatus.values());
        assertEquals(status, copyWriteable(status, writableRegistry(), LicenseStatus::readFrom));
    }
}

package org.elasticsearch.license;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.GET;
public class RestGetBasicStatus extends XPackRestHandler {
RestGetBasicStatus(Settings settings, RestController controller) {
super(settings);
controller.registerHandler(GET, URI_BASE + "/license/basic_status", this);
}
@Override
protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException
{
return channel -> client.licensing().prepareGetStartBasic().execute(
new RestBuilderListener<GetBasicStatusResponse>(channel) {
@Override
public RestResponse buildResponse(GetBasicStatusResponse response, XContentBuilder builder)
throws Exception {
builder.startObject();
builder.field("eligible_to_start_basic", response.isEligibleToStartBasic());
builder.endObject();
return new BytesRestResponse(RestStatus.OK, builder);
}
});
}
@Override
public String getName() {
return "xpack_basic_status_action";
}
}
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*/
/**
* Request and Response objects for the default distribution's License
* APIs.
*/
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*/
package org.elasticsearch.xpack.core.security.authz.permission;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.test.ESTestCase;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
public class FieldPermissionsCacheTests extends ESTestCase {
public void testFieldPermissionsCaching() {
FieldPermissionsCache fieldPermissionsCache = new FieldPermissionsCache(Settings.EMPTY);
String[] allowed = new String[]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*",
randomAlphaOfLength(5) + "*"};
String[] denied = new String[]{allowed[0] + randomAlphaOfLength(5), allowed[1] +

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randomAlphaOfLength(5),
allowed[2] + randomAlphaOfLength(5)};
FieldPermissions fieldPermissions = fieldPermissionsCache.getFieldPermissions(allowed, denied);
assertNotNull(fieldPermissions);
final String[] allowed2 = randomBoolean() ? allowed : Arrays.copyOf(allowed, allowed.length);
final String[] denied2 = randomBoolean() ? denied : Arrays.copyOf(denied, denied.length);
assertSame(fieldPermissions, fieldPermissionsCache.getFieldPermissions(allowed2, denied2));
}
public void testMergeFieldPermissions() {
FieldPermissionsCache fieldPermissionsCache = new FieldPermissionsCache(Settings.EMPTY);
String allowedPrefix1 = randomAlphaOfLength(5);
String allowedPrefix2 = randomAlphaOfLength(5);
String[] allowed1 = new String[]{allowedPrefix1 + "*"};
String[] allowed2 = new String[]{allowedPrefix2 + "*"};
String[] denied1 = new String[]{allowedPrefix1 + "a"};
String[] denied2 = new String[]{allowedPrefix2 + "a"};
FieldPermissions fieldPermissions1 = randomBoolean() ?
fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
new FieldPermissions(fieldPermissionDef(allowed1, denied1));
FieldPermissions fieldPermissions2 = randomBoolean() ?
fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
new FieldPermissions(fieldPermissionDef(allowed2, denied2));
FieldPermissions mergedFieldPermissions =
fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(mergedFieldPermissions.grantsAccessTo(allowedPrefix1 + "b"));
assertTrue(mergedFieldPermissions.grantsAccessTo(allowedPrefix2 + "b"));
assertFalse(mergedFieldPermissions.grantsAccessTo(denied1[0]));
assertFalse(mergedFieldPermissions.grantsAccessTo(denied2[0]));
allowed1 = new String[]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
allowed2 = null;
denied1 = new String[]{allowed1[0] + "a", allowed1[1] + "a"};
denied2 = null;
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertFalse(mergedFieldPermissions.hasFieldLevelSecurity());
allowed1 = new String[]{};
allowed2 = new String[]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
denied1 = new String[]{};
denied2 = new String[]{allowed2[0] + "a", allowed2[1] + "a"};
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
new FieldPermissions(fieldPermissionDef(allowed1, denied1));

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fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
for (String field : allowed2) {
    assertTrue(mergedFieldPermissions.grantsAccessTo(field));
}
for (String field : denied2) {
    assertFalse(mergedFieldPermissions.grantsAccessTo(field));
}

allowed1 = randomBoolean() ? null : new String[1]{"*"};
allowed2 = randomBoolean() ? null : new String[1]{"*"};
denied1 = new String[1]{"a"};
denied2 = new String[1]{"b"};
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(mergedFieldPermissions.grantsAccessTo("a"));
assertTrue(mergedFieldPermissions.grantsAccessTo("b"));

// test merge does not remove _all
allowed1 = new String[1]{"_all"};
allowed2 = new String[1]{""};
denied1 = null;
denied2 = null;
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(fieldPermissions1.grantsAccessTo("_all"));
assertFalse(fieldPermissions2.grantsAccessTo("_all"));
assertTrue(mergedFieldPermissions.grantsAccessTo("_all"));

allowed1 = new String[1]{ "a*" };
allowed2 = new String[1]{ "b*" };  
denied1 = new String[1]{ "aa*" };
denied2 = null;
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(mergedFieldPermissions.grantsAccessTo("a"));
assertTrue(mergedFieldPermissions.grantsAccessTo("b"));
assertFalse(mergedFieldPermissions.grantsAccessTo("aa"));
assertFalse(mergedFieldPermissions.grantsAccessTo("aa1"));
assertTrue(mergedFieldPermissions.grantsAccessTo("a1"));
}

public void testNonFlsAndFlsMerging() {
  List<FieldPermissions> permissionsList = new ArrayList<>();
  permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {"field1"}, null)));
  permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {"field2", "query*"}, null)));
  permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {"field1", "field2"}, null)));
  permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {}, null)));
  permissionsList.add(new FieldPermissions(fieldPermissionDef(null, null)));

  FieldPermissionsCache cache = new FieldPermissionsCache(Settings.EMPTY);
  for (int i = 0; i < scaledRandomIntBetween(1, 12); i++) {
    Collections.shuffle(permissionsList, random());
    FieldPermissions result = cache.getFieldPermissions(permissionsList);
    assertFalse(result.hasFieldLevelSecurity());
  }
}

private static FieldPermissionsDefinition fieldPermissionDef(String[] granted, String[] denied) {
  return new FieldPermissionsDefinition(granted, denied);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.rest.RestStatus;
import java.util.stream.StreamSupport;

public class LicenseUtils {

  public static final String EXPIRED_FEATURE_METADATA = "es.license.expired.feature";

  public static final String EXCEPTION_FEATURE_ACTION_WARN = "The feature %s requires a valid license. %s"

  public static final String EXCEPTION_FEATURE_ACTION_WARN_RESULT = "\n  * %s
  * Exception to be thrown when a feature action requires a valid license, but license
  */
  import org.elasticsearch.ElasticsearchSecurityException;
  import org.elasticsearch.Version;
  import org.elasticsearch.cluster.node.DiscoveryNodes;
  import org.elasticsearch.rest.RestStatus;

  import java.util.stream.StreamSupport;

  public class LicenseUtils {

    public static final String EXPIRED_FEATURE_METADATA = "es.license.expired.feature";

    /**
     * Exception to be thrown when a feature action requires a valid license, but license
     * @param feature
     * @param message
     * @param reason
     * @return
     */
  }
public static ElasticsearchSecurityException newComplianceException(String feature) {
    ElasticsearchSecurityException e = new ElasticsearchSecurityException("current license is non-compliant for
        [{}"]
            .RestStatus.FORBIDDEN, feature);
    e.addMetadata(EXPIRED_FEATURE_METADATA, feature);
    return e;
}

/**
 * Checks if a given {@link ElasticsearchSecurityException} refers to a feature that
 * requires a valid license, but the license has expired.
 */
public static boolean isLicenseExpiredException(ElasticsearchSecurityException exception) {
    return (exception != null) && (exception.getMetadata(EXPIRED_FEATURE_METADATA) != null);
}

public static boolean licenseNeedsExtended(License license) {
    return "basic".equals(license.type()) && license.expiryDate() !=
        LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
}

/**
 * Checks if the signature of a self generated license with older version needs to be
 * recreated with the new key
 */
public static boolean signatureNeedsUpdate(License license, DiscoveryNodes currentNodes) {
    assert License.VERSION_CRYPTO_ALGORITHMS == License.VERSION_CURRENT : "update this method
    when adding a new version";

    return ("basic".equals(license.type()) || "trial".equals(license.type())) &&
            // only upgrade signature when all nodes are ready to deserialize the new signature
            (license.version() < License.VERSION_CRYPTO_ALGORITHMS &&
            compatibleLicenseVersion(currentNodes) == License.VERSION_CRYPTO_ALGORITHMS
    );
}

public static int compatibleLicenseVersion(DiscoveryNodes currentNodes) {
    assert License.VERSION_CRYPTO_ALGORITHMS == License.VERSION_CURRENT : "update this method
    when adding a new version";

    if (StreamSupport.stream(currentNodes.spliterator(), false)
            .allMatch(node -> node.getVersion().onOrAfter(Version.V_6_4_0))) {
        // License.VERSION_CRYPTO_ALGORITHMS was introduced in 6.4.0
}
return License.VERSION_CRYPTO_ALGORITHMS;
} else {
    return License.VERSION_START_DATE;
}
}

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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 org.elasticsearch.rest.RestStatus;
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<StartBasicResponse, Void>(
        "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(), new ParseField("acknowledgements"), (parser, v) -> {
            Map<String, String[]> acknowledgeMessages = new HashMap<>();
            String message = null;
            return acknowledgeMessages;
        });
    }

}
XContentParser.Token token;
String currentFieldName = null;
while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
    if (token == XContentParser.Token.FIELD_NAME) {
        currentFieldName = parser.currentName();
    } else {
        if (currentFieldName == null) {
            throw new XContentParseException(parser.getTokenLocation(), "expected message header or acknowledgement");
        }
        if (new ParseField("message").getPreferredName().equals(currentFieldName)) {
            ensureExpectedToken(XContentParser.Token.VALUE_STRING, token, parser::getTokenLocation);
            message = parser.text();
        } else {
            if (token != XContentParser.Token.START_ARRAY) {
                throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement type");
            }
            List<String> acknowledgeMessagesList = new ArrayList<>();
            while ((token = parser.nextToken()) != XContentParser.Token.END_ARRAY) {
                ensureExpectedToken(XContentParser.Token.VALUE_STRING, token, parser::getTokenLocation);
                acknowledgeMessagesList.add(parser.text());
            }
            acknowledgeMessages.put(currentFieldName, acknowledgeMessagesList.toArray(new String[0]));
        }
    }
}
return new Tuple<>(message, acknowledgeMessages);

private Map<String, String[]> acknowledgeMessages;
private String acknowledgeMessage;

enum Status {
    GENERATED_BASIC(true, null, RestStatus.OK),
    ALREADY_USING_BASIC(false, "Operation failed: Current license is basic.", RestStatus.FORBIDDEN),
    NEED_ACKNOWLEDGEMENT(false, "Operation failed: Needs acknowledgement.", RestStatus.OK);
    private final boolean isBasicStarted;
    private final String errorMessage;
    private final RestStatus restStatus;
    Status(boolean isBasicStarted, String errorMessage, RestStatus restStatus) {
        this.isBasicStarted = isBasicStarted;
    }
this.errorMessage = errorMessage;
this.restStatus = restStatus;
}

String getErrorMessage() {
    return errorMessage;
}

boolean isBasicStarted() {
    return isBasicStarted;
}

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;

public StartBasicResponse() {
}

StartBasicResponse(StartBasicResponse.Status status) {
    this(status, Collections.emptyMap(), null);
}

StartBasicResponse(StartBasicResponse.Status status,
            Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

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);
}

/*
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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.test.VersionUtils;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.XPackSettings;

import java.util.Arrays;
import java.util.function.Predicate;
import java.util.stream.Collectors;
import static org.elasticsearch.license.License.OperationMode.BASIC;
import static org.elasticsearch.license.License.OperationMode.GOLD;
import static org.elasticsearch.license.License.OperationMode.MISSING;
import static org.elasticsearch.license.License.OperationMode.PLATINUM;
import static org.elasticsearch.license.License.OperationMode.STANDARD;
import static org.elasticsearch.license.License.OperationMode.TRIAL;
import static org.elasticsearch.license.License.OperationMode.is;

public class XPackLicenseStateTests extends ESTestCase {

/**
 * Unit tests for the [link XPackLicenseState]
 */
public class XPackLicenseStateTests extends ESTestCase {


/** Creates a license state with the given license type and active state, and checks the given method returns expected. */
void assertAllowed(OperationMode mode, boolean active, Predicate<XPackLicenseState> predicate, boolean expected) {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(mode, active, null);
    assertEquals(expected, predicate.test(licenseState));
}

/**
 * Checks the ack message going from the { @code from} license type to { @code to} license type.
 * TODO: check the actual messages, not just the number of them! This was copied from previous license tests...
 */
void assertAckMesssages(String feature, OperationMode from, OperationMode to, int expectedMessages) {
    String[] gotMessages = XPackLicenseState.ACKNOWLEDGMENT_MESSAGES.get(feature).apply(from, to);
    assertEquals(expectedMessages, gotMessages.length);
}

static <T> T randomFrom(T[] values, Predicate<T> filter) {
    return randomFrom(Arrays.stream(values).filter(filter).collect(Collectors.toList()));
}

static OperationMode randomMode() {
    return randomFrom(OperationMode.values());
}

public static OperationMode randomTrialStandardGoldOrPlatinumMode() {
    return randomFrom(TRIAL, STANDARD, GOLD, PLATINUM);
}

public static OperationMode randomTrialOrPlatinumMode() {
    return randomFrom(TRIAL, PLATINUM);
}

public static OperationMode randomTrialBasicStandardGoldOrPlatinumMode() {
    return randomFrom(TRIAL, BASIC, STANDARD, GOLD, PLATINUM);
}

public static OperationMode randomBasicStandardOrGold() {
    return randomFrom(BASIC, STANDARD, GOLD);
}

public void testSecurityDefaults() {
    XPackLicenseState licenseState =
        new XPackLicenseState(Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build());
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));

licenseState = new XPackLicenseState(Settings.builder().put(XPackSettings.TRANSPORT_SSL_ENABLED.getKey(), true).build());
assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));

licenseState = new XPackLicenseState(Settings.EMPTY);
assertThat(licenseState.isAuthAllowed(), is(false));
assertThat(licenseState.isIpFilteringAllowed(), is(false));
assertThat(licenseState.isAuditingAllowed(), is(false));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityBasic() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(BASIC, true, null);
    assertThat(licenseState.isAuthAllowed(), is(false));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
    assertThat(licenseState.isAuditingAllowed(), is(false));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityBasicExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(BASIC, false, null);
    assertThat(licenseState.isAuthAllowed(), is(false));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
    // Other assertions...
assertThat(licenseState.isAuditingAllowed(), is(false));
assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

class SecurityTest {
  public void testSecurityStandard() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
      Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(STANDARD, true, null);
    licenseState.isAuthAllowed(), is(true));
    licenseState.isIpFilteringAllowed(), is(false));
    licenseState.isAuditingAllowed(), is(false));
    licenseState.isStatsAndHealthAllowed(), is(true));
    licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NATIVE));
    licenseState.isCustomRoleProvidersAllowed(), is(false));
  }

  public void testSecurityStandardExpired() {
    licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
      Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(STANDARD, false, null);
    licenseState.isAuthAllowed(), is(true));
    licenseState.isIpFilteringAllowed(), is(false));
    licenseState.isAuditingAllowed(), is(true));
    licenseState.isStatsAndHealthAllowed(), is(false));
    licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NATIVE));
    licenseState.isCustomRoleProvidersAllowed(), is(false));
  }

  public void testSecurityGold() {
    licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
      Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(GOLD, true, null);
    licenseState.isAuthAllowed(), is(true));
    licenseState.isIpFilteringAllowed(), is(true));
    licenseState.isAuditingAllowed(), is(true));
    licenseState.isStatsAndHealthAllowed(), is(true));
    licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
    licenseState.isCustomRoleProvidersAllowed(), is(false));
  }
}
public void testSecurityGoldExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(GOLD, false, null);

    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityPlatinum() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(PLATINUM, true, null);

    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

public void testSecurityPlatinumExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(PLATINUM, false, null);

    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testNewTrialDefaultsSecurityOff() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(TRIAL, true, VersionUtils.randomVersionBetween(random(), Version.V_6_3_0,
            Version.CURRENT));
assertThat(licenseState.isSecurityDisabledByTrialLicense(), is(true));
assertThat(licenseState.isAuthAllowed(), is(false));
assertThat(licenseState.isIpFilteringAllowed(), is(false));
assertThat(licenseState.isAuditingAllowed(), is(false));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testOldTrialDefaultsSecurityOn() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(TRIAL, true, rarely() ? null : VersionUtils.randomVersionBetween(random(),
    Version.V_5_6_0, Version.V_6_2_4));

    licenseState.isSecurityDisabledByTrialLicense(), is(false));
assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

public void testSecurityAckBasicToNotGoldOrStandard() {
    OperationMode toMode = randomFrom(OperationMode.values(), mode -> mode != GOLD && mode !=
STANDARD);
    assertAckMessages(XPackField.SECURITY, BASIC, toMode, 0);
}

public void testSecurityAckAnyToTrialOrPlatinum() {
    assertAckMessages(XPackField.SECURITY, randomMode(), randomTrialOrPlatinumMode(), 0);
}

public void testSecurityAckTrialStandardGoldOrPlatinumToBasic() {
    assertAckMessages(XPackField.SECURITY, randomTrialStandardGoldOrPlatinumMode(), BASIC, 3);
}

public void testSecurityAckAnyToStandard() {
    OperationMode from = randomFrom(BASIC, GOLD, PLATINUM, TRIAL);
    assertAckMessages(XPackField.SECURITY, from, STANDARD, 4);
}

public void testSecurityAckBasicStandardTrialOrPlatinumToGold() {
    OperationMode from = randomFrom(BASIC, PLATINUM, TRIAL, STANDARD);
    assertAckMessages(XPackField.SECURITY, from, GOLD, 2);
}
public void testMonitoringAckBasicToAny() {
    assertAckMessages(XPackField.MONITORING, BASIC, randomMode(), 0);
}

public void testMonitoringAckAnyToTrialGoldOrPlatinum() {
    assertAckMessages(XPackField.MONITORING, randomMode(),
                      randomTrialStandardGoldOrPlatinumMode(), 0);
}

public void testMonitoringAckNotBasicToBasic() {
    OperationMode from = randomFrom(STANDARD, GOLD, PLATINUM, TRIAL);
    assertAckMessages(XPackField.MONITORING, from, BASIC, 2);
}

public void testMonitoringAllowed() {
    assertAllowed(randomMode(), true, XPackLicenseState::isMonitoringAllowed, true);
    assertAllowed(randomMode(), false, XPackLicenseState::isMonitoringAllowed, false);
}

public void testMonitoringUpdateRetention() {
    assertAllowed(STANDARD, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(TRIAL, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(BASIC, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(MISSING, false, XPackLicenseState::isUpdateRetentionAllowed, false);
}

public void testWatcherPlatinumGoldTrialStandard() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(STANDARD, true, XPackLicenseState::isWatcherAllowed, true);
}

public void testWatcherBasicLicense() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isWatcherAllowed, false);
}

public void testWatcherInactive() {
    assertAllowed(BASIC, false, XPackLicenseState::isWatcherAllowed, false);
}

public void testWatcherInactivePlatinumGoldTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(GOLD, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isWatcherAllowed, false);
}
assertAllowed(STANDARD, false, XPackLicenseState::isWatcherAllowed, false);
}

public void testGraphPlatinumTrial() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isGraphAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isGraphAllowed, true);
}

public void testGraphBasic() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphStandard() throws Exception {
    assertAllowed(STANDARD, true, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphInactiveBasic() {
    assertAllowed(BASIC, false, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphInactivePlatinumTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isMachineLearningAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningPlatinumGoldTrialStandard() throws Exception {
    assertAllowed(PLATINUM, true, XPackLicenseState::isMachineLearningAllowed, true);
}

public void testMachineLearningBasic() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningStandard() throws Exception {
    assertAllowed(STANDARD, true, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningInactiveBasic() {
    assertAllowed(BASIC, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningInactivePlatinumTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isMachineLearningAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testLogstashPlatinumGoldTrialStandard() throws Exception {
assertAllowed(TRIAL, true, XPackLicenseState::isLogstashAllowed, true);
assertAllowed(GOLD, true, XPackLicenseState::isLogstashAllowed, true);
assertAllowed(PLATINUM, true, XPackLicenseState::isLogstashAllowed, true);
assertAllowed(STANDARD, true, XPackLicenseState::isLogstashAllowed, true);
}

public void testLogstashBasicLicense() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isLogstashAllowed, false);
}

public void testLogstashInactive() {
    assertAllowed(BASIC, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(TRIAL, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(GOLD, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(STANDARD, false, XPackLicenseState::isLogstashAllowed, false);
}

public void testSqlDefaults() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(true));
}

public void testSqlBasic() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(BASIC, true, null);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlBasicExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(BASIC, false, null);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlStandard() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(STANDARD, true, null);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}
public void testSqlStandardExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(STANDARD, false, null);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlGold() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(GOLD, true, null);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlGoldExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(GOLD, false, null);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlPlatinum() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, true, null);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(true));
}

public void testSqlPlatinumExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, false, null);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlAckAnyToTrialOrPlatinum() {
    assertAckMessages(XPackField.SQL, randomMode(), randomTrialOrPlatinumMode(), 0);
}

public void testSqlAckTrialOrPlatinumToNotTrialOrPlatinum() {
    assertAckMessages(XPackField.SQL, randomTrialOrPlatinumMode(), randomBasicStandardOrGold(), 1);
}
public class RestGetTrialStatus extends XPackRestHandler {

    RestGetTrialStatus(Settings settings, RestController controller) {
        super(settings);
        controller.registerHandler(GET, URI_BASE + "/license/trial_status", this);
    }

    @Override
    protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
        return channel -> client.licensing().prepareGetStartTrial().execute(
            new RestBuilderListener<GetTrialStatusResponse>(channel) {
                @Override
                public RestResponse buildResponse(GetTrialStatusResponse response, XContentBuilder builder) throws Exception {
                    builder.startObject();
                    builder.field("eligible_to_start_trial", response.isEligibleToStartTrial());
                    builder.endObject();
                    return new BytesRestResponse(RestStatus.OK, builder);
                }
            });
    }

    @Override
    public String getName() {
        return "Get Trial Status";
    }
}
return "xpack_trial_status_action";
}

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 */

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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 */
package org.elasticsearch.protocol.xpack.license;

import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.test.AbstractStreamableXContentTestCase;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import java.util.function.Function;
import java.util.function.Predicate;

public class PutLicenseResponseTests extends AbstractStreamableXContentTestCase<PutLicenseResponse> {

    @Override
    protected boolean supportsUnknownFields() {
        return true;
    }

    @Override
    protected Predicate<String> getRandomFieldsExcludeFilter() {
        // The structure of the response is such that unknown fields inside acknowledge cannot be supported since they
        // are treated as messages from new services
        return p -> p.startsWith("acknowledge");
    }

    @Override
    protected PutLicenseResponse createTestInstance() {
        boolean acknowledged = randomBoolean();
        LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID,
                                             LicensesStatus.EXPIRED);
        String messageHeader;
        Map<String, String[]> ackMessages;
        if (randomBoolean()) {
            messageHeader = randomAlphaOfLength(10);
            ackMessages = randomAckMessages();
            {
                // This is where the actual test code begins, checking and testing the created instance.
            }
        }
    }
}

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private static Map<String, String[]> randomAckMessages() {
    int nFeatures = randomIntBetween(1, 5);

    Map<String, String[]> ackMessages = new HashMap<>();

    for (int i = 0; i < nFeatures; i++) {
        String feature = randomAlphaOfLengthBetween(9, 15);
        int nMessages = randomIntBetween(1, 5);
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = randomAlphaOfLengthBetween(10, 30);
        }
        ackMessages.put(feature, messages);
    }

    return ackMessages;
}

@Deprecated
protected PutLicenseResponse doParseInstance(XContentParser parser) throws IOException {
    return PutLicenseResponse.fromXContent(parser);
}

@Override
protected PutLicenseResponse createBlankInstance() {
    return new PutLicenseResponse();
}

@Override
protected PutLicenseResponse mutateInstance(PutLicenseResponse response) {
    @SuppressWarnings("unchecked")
    Function<PutLicenseResponse, PutLicenseResponse> mutator = randomFrom(
        r -> new PutLicenseResponse(
            r.isAcknowledged() == false,
            r.status(),
            r.acknowledgeHeader(),
            r.acknowledgeMessages()),
        r -> new PutLicenseResponse(
            r.isAcknowledged(),
            mutateStatus(r.status()),
            null,
            Collections.emptyMap()));

    return mutator.apply(response);
}
r.acknowledgeHeader(),
r.acknowledgeMessages(),
r -> {
    if (r.acknowledgeMessages().isEmpty()) {
        return new PutLicenseResponse(
            r.isAcknowledged(),
            r.status(),
            randomAlphaOfLength(10),
            randomAckMessages()
        );
    } else {
        return new PutLicenseResponse(r.isAcknowledged(), r.status());
    }
}

return mutator.apply(response);

private LicensesStatus mutateStatus(LicensesStatus status) {
    return randomValueOtherThan(status, () -> randomFrom(LicensesStatus.values()));
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.action.RestToXContentListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.DELETE;

public class RestDeleteLicenseAction extends XPackRestHandler {
    public RestDeleteLicenseAction(Settings settings, RestController controller) {
        super(settings);
        // @deprecated Remove deprecations in 6.0
        controller.registerWithDeprecatedHandler(DELETE, URI_BASE + "license", this,
DELETE, "/_license", deprecationLogger);

// Remove _licenses support entirely in 6.0
controller.registerAsDeprecatedHandler(DELETE, "/_licenses", this,

  "[DELETE /_licenses] is deprecated! Use " +
  "[DELETE /_xpack/license] instead.",
  deprecationLogger);

}

@Override
public String getName() {
    return "xpack_delete_license_action";
}

@Override
public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws IOException {
    DeleteLicenseRequest deleteLicenseRequest = new DeleteLicenseRequest();
    deleteLicenseRequest.timeout(request.paramAsTime("timeout", deleteLicenseRequest.timeout()));
    deleteLicenseRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
        deleteLicenseRequest.masterNodeTimeout()));
    
    return channel -> client.es().admin().cluster().execute(DeleteLicenseAction.INSTANCE, deleteLicenseRequest,
        new RestToXContentListener<>(channel));
}

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 */
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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import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;

import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;

@ESIntegTestCase.ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes = 0, transportClientRatio = 0,
   autoMinMasterNodes = false)
public class LicenseServiceClusterNotRecoveredTests extends AbstractLicensesIntegrationTestCase {

   @Override
   protected Settings nodeSettings(int nodeOrdinal) {
      return nodeSettingsBuilder(nodeOrdinal).build();
   }

   private Settings.Builder nodeSettingsBuilder(int nodeOrdinal) {
      return Settings.builder()
         .put(super.nodeSettings(nodeOrdinal))
         .put("node.data", true)
         .put("resource.reload.interval.high", "500ms") // for license mode file watcher
         .put(NetworkModule.HTTP_ENABLED.getKey(), true);
   }

   @Override
   protected Collection<Class<? extends Plugin>> nodePlugins() {
      return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class,
         Netty4Plugin.class);
   }

}
@Override
protected Collection<Class<? extends Plugin>> transportClientPlugins() {
    return nodePlugins();
}

collection
{testClusterNotRecovered() throws Exception {
    logger.info("--> start one master out of two [recovery state]");
    internalCluster().startNode(nodeSettingsBuilder(0).put("discovery.zen.minimum_master_nodes", 2).put("node.master", true));
    logger.info("--> start second master out of two [recovered state]");
    internalCluster().startNode(nodeSettingsBuilder(1).put("discovery.zen.minimum_master_nodes", 2).put("node.master", true));
    assertLicenseActive(true);
}
}

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import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.joda.time.MutableDateTime;
import org.joda.time.format.DateTimeFormatter;
import org.joda.time.format.ISODateTimeFormat;

public class DateUtils {

    private static final FormatDateTimeFormatter formatDateOnlyFormatter = Joda.forPattern("yyyy-MM-dd");
    private static final DateTimeFormatter dateOnlyFormatter = formatDateOnlyFormatter.parser().withZoneUTC();
    private static final DateTimeFormatter dateTimeFormatter = ISODateTimeFormat.dateTime().withZoneUTC();

    public static long endOfTheDay(String date) {
        try {
            // Try parsing using complete date/time format
            return dateTimeFormatter.parseDateTime(date).getMillis();
        } catch (IllegalArgumentException ex) {
            // Fall back to the date only format
            MutableDateTime dateTime = dateOnlyFormatter.parseMutableDateTime(date);
            dateTime.millisOfDay().set(dateTime.millisOfDay().getMaximumValue());
            return dateTime.getMillis();
        }
    }
}
public static long beginningOfDay(String date) {
    try {
        // Try parsing using complete date/time format
        return dateTimeFormatter.parseDateTime(date).getMillis();
    } catch (IllegalArgumentException ex) {
        // Fall back to the date only format
        return dateOnlyFormatter.parseDateTime(date).getMillis();
    }
}

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public final class PutLicenseResponse {

    private static final ConstructingObjectParser<PutLicenseResponse, Void> PARSER = new

    ConstructingObjectParser<

    "put_license_response", true, (a, v) -> {

        boolean acknowledged = (Boolean) a[0];

        LicensesStatus licensesStatus = LicensesStatus.fromString((String) a[1]);

        @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,

        Map<String, String[]>> a[2]);

        if (acknowledgements == null) {
            return new PutLicenseResponse(acknowledged, licensesStatus);
        } else {
            return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements.v1(),

            acknowledgements.v2());

        }

    });

    static {

        PARSER.declareBoolean(constructorArg(), new ParseField("acknowledged"));

        PARSER.declareString(constructorArg(), new ParseField("license_status"));

        PARSER.declareObject(optionalConstructorArg(), (parser, v) -> {

            Map<String, String[]> acknowledgeMessages = new HashMap<>();

            String message = null;

            acknowledgeMessages.put("message", message);

            return acknowledgeMessages;

        });

    }

}
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);
}

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);
}

@Override
public int hashCode() {
    return Objects.hash(super.hashCode(), status, ProtocolUtils.hashCode(acknowledgeMessages),
        acknowledgeHeader);
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;
import org.junit.Before;
import static org.hamcrest.Matchers.equalTo;

public class LicenseScheduleTests extends ESTestCase {

    private License license;
    private SchedulerEngine.Schedule schedule;

    @Before
    public void setup() throws Exception {
        license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(12));
        schedule = LicenseService.nextLicenseCheck(license);
    }

    public void testEnabledLicenseSchedule() throws Exception {
        int expiryDuration = (int) (license.expiryDate() - license.issueDate());
        long triggeredTime = license.issueDate() + between(0, expiryDuration);
        assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
                equalTo(license.expiryDate()));
    }

    public void testGraceLicenseSchedule() throws Exception {
        long triggeredTime = license.expiryDate() + between(1,
                ((int) LicenseService.GRACE_PERIOD_DURATION.getMillis()));
        assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
                equalTo(license.expiryDate() + LicenseService.GRACE_PERIOD_DURATION.getMillis()));
    }

    public void testExpiredLicenseSchedule() throws Exception {
        long triggeredTime = license.expiryDate() + between(1,
                LicenseService.GRACE_PERIOD_DURATION.getMillis()) +
                randomIntBetween(1, 1000);
        assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
                equalTo(-1L));
    }

    public void testInvalidLicenseSchedule() throws Exception {
    }
}
long triggeredTime = license.issueDate() - randomIntBetween(1, 1000);
assertThat(schedule.nextScheduledTimeAfter(_triggeredTime, triggeredTime),
  equalTo(license.issueDate()));
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.unit.TimeValue;
import java.util.UUID;

abstract class ExpirationCallback {

  static final String EXPIRATION_JOB_PREFIX = ".license_expiration_job_

  public enum Orientation {PRE, POST}

  /**
   * Callback that is triggered every <code>frequency</code> when
   * current time is between <code>max</code> and <code>min</code>
   * before license expiry.
   */
  public abstract static class Pre extends ExpirationCallback {

    /**
     * Callback schedule prior to license expiry
     *
     * @param min       latest relative time to execute before license expiry
     * @param max       earliest relative time to execute before license expiry
     * @param frequency interval between execution
     */
    Pre(TimeValue min, TimeValue max, TimeValue frequency) {
      super(Orientation.PRE, min, max, frequency);
    }
  }

  /**
   * Callback that is triggered every <code>frequency</code> when
   * current time is between <code>min</code> and <code>max</code>
   * after license expiry.
   */
  public abstract static class Post extends ExpirationCallback {

  }
/**
* Callback schedule after license expiry
*
* @param min
earliest relative time to execute after license expiry
* @param max
latest relative time to execute after license expiry
* @param frequency interval between execution
*/
Post(TimeValue min, TimeValue max, TimeValue frequency) {
super(Orientation.POST, min, max, frequency);
}
}
private final String id;
private final Orientation orientation;
private final long min;
private final long max;
private final long frequency;
private ExpirationCallback(Orientation orientation, TimeValue min, TimeValue max, TimeValue frequency) {
this.orientation = orientation;
this.min = (min == null) ? 0 : min.getMillis();
this.max = (max == null) ? Long.MAX_VALUE : max.getMillis();
this.frequency = frequency.getMillis();
this.id = String.join("", EXPIRATION_JOB_PREFIX, UUID.randomUUID().toString());
}
public final String getId() {
return id;
}
public final long getFrequency() {
return frequency;
}
/**
* Calculates the delay for the next trigger time. When <code>now</code> is in a
* valid time bracket with respect to <code>expirationDate</code>, the delay is 0.
* When <code>now</code> is before the time bracket, than delay to the start of the
* time bracket and when <code>now</code> is passed the valid time bracket, the delay
* is <code>null</code>
* @param expirationDate license expiry date in milliseconds
* @param now current time in milliseconds
* @return time delay
*/
final TimeValue delay(long expirationDate, long now) {
final TimeValue delay;
switch (orientation) {

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case PRE:
if (expirationDate >= now) {
    // license not yet expired
    long preExpiryDuration = expirationDate - now;
    if (preExpiryDuration > max) {
        // license duration is longer than maximum duration, delay it to the first match time
        delay = TimeValue.timeValueMillis(preExpiryDuration - max);
    } else if (preExpiryDuration <= max && preExpiryDuration >= min) {
        // no delay in valid time bracket
        delay = TimeValue.timeValueMillis(0);
    } else {
        // passed last match time
        delay = null;
    }
} else {
    // invalid after license expiry
    delay = null;
}
break;

case POST:
if (expirationDate >= now) {
    // license not yet expired, delay it to the first match time
    delay = TimeValue.timeValueMillis(expirationDate - now + min);
} else {
    // license has expired
    long expiredDuration = now - expirationDate;
    if (expiredDuration < min) {
        // license expiry duration is shorter than minimum duration, delay it to the first match time
        delay = TimeValue.timeValueMillis(min - expiredDuration);
    } else if (expiredDuration >= min && expiredDuration <= max) {
        // no delay in valid time bracket
        delay = TimeValue.timeValueMillis(0);
    } else {
        // passed last match time
        delay = null;
    }
}
break;
default:
    throw new IllegalStateException("orientation [" + orientation + "] unknown");

return delay;

/**
 * @link org.elasticsearch.xpack.core.scheduler.SchedulerEngine.Schedule#nextScheduledTimeAfter(long, long)
 * with respect to license expiry date
public final long nextScheduledTimeForExpiry(long expiryDate, long startTime, long time) {
    TimeValue delay = delay(expiryDate, time);
    if (delay != null) {
        long delayInMillis = delay.getMillis();
        if (delayInMillis == 0L) {
            if (startTime == time) {
                // initial trigger and in time bracket, schedule immediately
                return time;
            } else {
                // in time bracket, add frequency
                return time + frequency;
            }
        } else {
            // not in time bracket
            return time + delayInMillis;
        }
    }
    return -1;
}

/**
 * Code to execute when the expiry callback is triggered in a valid
 * time bracket
 * @param license license to operate on
 */
public abstract void on(License license);

public final String toString() {
    return LoggerMessageFormat.format(null, "ExpirationCallback:(orientation [{}], min [{}], max [{}], freq
    [{}])",
    orientation.name(), TimeValue.timeValueMillis(min), TimeValue.timeValueMillis(max),
    TimeValue.timeValueMillis(frequency));
}

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*/
package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class DeleteLicenseRequest extends TimedRequest {

}

package org.elasticsearch.license;

import org.elasticsearch.action.ActionFuture;
import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.protocol.xpack.license.LicensesStatus;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;
import org.elasticsearch.test.ESSingleNodeTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import java.nio.charset.StandardCharsets;
import java.util.Collection;
import java.util.Collections;
import java.util.UUID;
import static org.elasticsearch.license.TestUtils.dateMath;
import static org.elasticsearch.license.TestUtils.generateExpiredNonBasicLicense;
import static org.elasticsearch.license.TestUtils.generateSignedLicense;
import static org.hamcrest.CoreMatchers.equalTo;
import static org.hamcrest.CoreMatchers.not;

public class LicensesTransportTests extends ESSingleNodeTestCase {

import static org.elasticsearch.license.TestUtils.dateMath;
import static org.elasticsearch.license.TestUtils.generateExpiredNonBasicLicense;
import static org.elasticsearch.license.TestUtils.generateSignedLicense;
import static org.hamcrest.CoreMatchers.equalTo;
import static org.hamcrest.CoreMatchers.not;

public class LicensesTransportTests extends ESSingleNodeTestCase {

}
@Override
protected boolean resetNodeAfterTest() {
    return true;
}

@Override
protected Collection<Class<? extends Plugin>> getPlugins() {
    return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
}

@Override
protected Settings nodeSettings() {
    Settings.Builder newSettings = Settings.builder();
    newSettings.put(super.nodeSettings());
    newSettings.put(XPackSettings.SECURITY_ENABLED.getKey(), false);
    //    newSettings.put(XPackSettings.MONITORING_ENABLED.getKey(), false);
    //    newSettings.put(XPackSettings.WATCHER_ENABLED.getKey(), false);
    newSettings.put(Node.NODE_DATA_SETTING.getKey(), true);
    return newSettings.build();
}

public void testEmptyGetLicense() throws Exception {
    // basic license is added async, we should wait for it
    assertBusy(() -> {
        try {
            final ActionFuture<GetLicenseResponse> getLicenseFuture =
                new GetLicenseRequestBuilder(client().admin().cluster(), GetLicenseAction.INSTANCE).execute();
            final GetLicenseResponse getLicenseResponse;
            getLicenseResponse = getLicenseFuture.get();
            assertNotNull(getLicenseResponse.license());
            assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
        } catch (Exception e) {
            throw new RuntimeException("unexpected exception", e);
        }
    });
}

public void testPutLicense() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));

    // put license
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(), PutLicenseAction.INSTANCE).setLicense(signedLicense)
            .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
// get and check license
GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(), GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), equalTo(signedLicense));
}

public void testPutLicenseFromString() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));
    String licenseString = TestUtils.dumpLicense(signedLicense);

    // put license source
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(), PutLicenseAction.INSTANCE)
            .setLicense(new BytesArray(licenseString.getBytes(StandardCharsets.UTF_8)), XContentType.JSON)
            .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));

    // get and check license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(), GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(signedLicense));
}

public void testPutInvalidLicense() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));
    // modify content of signed license
    License tamperedLicense = License.builder()
        .fromLicenseSpec(signedLicense, signedLicense.signature())
        .expiryDate(signedLicense.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
        .validate()
        .build();
    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(), PutLicenseAction.INSTANCE);
    builder.setLicense(tamperedLicense);

    // try to put license (should be invalid)
    final PutLicenseResponse putLicenseResponse = builder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));

    // try to get invalid license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(), GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), not(tamperedLicense));
}

public void testPutBasicLicenseIsInvalid() throws Exception {
    License signedLicense = generateSignedLicense("basic", License.VERSION_CURRENT, -1,
    TimeValue.timeValueMinutes(2));

    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
    PutLicenseAction.INSTANCE);
    builder.setLicense(signedLicense);

    // try to put license (should be invalid)
    IllegalArgumentException iae = expectThrows(IllegalArgumentException.class, builder::get);
    assertEquals(iae.getMessage(), "Registering basic licenses is not allowed.");

    // try to get invalid license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
    GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(signedLicense));
}

public void testPutExpiredLicense() throws Exception {
    License expiredLicense = generateExpiredNonBasicLicense();
    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
    PutLicenseAction.INSTANCE);
    builder.setLicense(expiredLicense);
    PutLicenseResponse putLicenseResponse = builder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.EXPIRED));
    // get license should not return the expired license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
    GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(expiredLicense));
}

public void testPutLicensesSimple() throws Exception {
    License goldSignedLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(),
        PutLicenseAction.INSTANCE).setLicense(goldSignedLicense)
        .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
    GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(goldSignedLicense));
    License platinumSignedLicense = generateSignedLicense("platinum", TimeValue.timeValueMinutes(2));
    putLicenseRequestBuilder.setLicense(platinumSignedLicense);
public void testRemoveLicensesSimple() throws Exception {
    License goldLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(),
            PutLicenseAction.INSTANCE).setLicense(goldLicense)
            .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
        GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(goldLicense));
    // delete all licenses
    DeleteLicenseRequestBuilder deleteLicenseRequestBuilder =
        new DeleteLicenseRequestBuilder(client().admin().cluster(), DeleteLicenseAction.INSTANCE);
    AcknowledgedResponse deleteLicenseResponse = deleteLicenseRequestBuilder.get();
    assertThat(deleteLicenseResponse.isAcknowledged(), equalTo(true));
    // get licenses (expected no licenses)
    getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
        GetLicenseAction.INSTANCE).get();
    assertNull(getLicenseResponse.license());
}

public void testLicenseIsRejectWhenStartDateLaterThanNow() throws Exception {
    long now = System.currentTimeMillis();
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(dateMath("now+2h", now))
        .startDate(dateMath("now+1h", now))
        .issueDate(now)
        .type(License.OperationMode.TRIAL.toString())
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    License license = TestUtils.generateSignedLicense(builder);
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(),
            PutLicenseAction.INSTANCE).setLicense(license)
public void testLicenseIsAcceptedWhenStartDateBeforeThanNow() throws Exception {
    long now = System.currentTimeMillis();
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(dateMath("now+2h", now))
        .startDate(now)
        .issueDate(now)
        .type(License.OperationMode.TRIAL.toString())
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    License license = TestUtils.generateSignedLicense(builder);
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(), PutLicenseAction.INSTANCE).setLicense(license)
            .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
}

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class GetLicenseResponse extends ActionResponse {

    private License license;

    GetLicenseResponse() {
    }
}
GetLicenseResponse(License license) {
    this.license = license;
}

public License license() {
    return license;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    if (in.readBoolean()) {
        license = License.readLicense(in);
    }
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    if (license == null) {
        out.writeBoolean(false);
    } else {
        out.writeBoolean(true);
        license.writeTo(out);
    }
}

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 * under the License.
 */
package org.elasticsearch.client.license;

/**<p>
 * Status of an X-Pack license.
 */
public enum LicenseStatus {

  ACTIVE("active"),
  INVALID("invalid"),
  EXPIRED("expired");

  private final String label;

  LicenseStatus(String label) {
    this.label = label;
  }

  public String label() {
    return label;
  }

  public static LicenseStatus fromString(String value) {
    switch (value) {
      case "active":
        return ACTIVE;
      case "invalid":
        return INVALID;
      case "expired":

return EXPIRED;
default:
    throw new IllegalArgumentException("unknown license status [" + value + "]");
}
}
*/

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package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.client.Client;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.util.concurrent.ThreadContext;
import org.elasticsearch.protocol.xpack.XPackInfoResponse;
import org.elasticsearch.protocol.xpack.license.LicenseStatus;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.threadpool.TestThreadPool;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.xpack.core.action.XPackInfoAction;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.concurrent.atomic.AtomicBoolean;
import java.util.concurrent.atomic.AtomicInteger;
import java.util.concurrent.atomic.AtomicReference;
import java.util.function.Consumer;
import static org.hamcrest.Matchers.contains;
import static org.hamcrest.Matchers.containsInAnyOrder;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.empty;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.hasToString;
import static org.hamcrest.Matchers.instanceOf;
import static org.hamcrest.Matchers.is;
import static org.hamcrest.Matchers.not;
import static org.mockito.Matchers.any;
import static org.mockito.Matchers.anyString;
import static org.mockito.Matchers.argThat;
import static org.mockito.Matchers.same;

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import static org.mockito.Mockito.doAnswer;
import static org.mockito.Mockito.mock;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;

public final class RemoteClusterLicenseCheckerTests extends ESTestCase {

    public void testIsNotRemoteIndex() {
        assertFalse(RemoteClusterLicenseChecker.isRemoteIndex("local-index"));
    }

    public void testIsRemoteIndex() {
        assertTrue(RemoteClusterLicenseChecker.isRemoteIndex("remote-cluster:remote-index"));
    }

    public void testRemoteIndex() {
        final List<String> indices = Arrays.asList("local-index", "remote-cluster:remote-index");
        assertTrue(RemoteClusterLicenseChecker.containsRemoteIndex(indices));
    }

    public void testNoRemoteIndex() {
        final List<String> indices = Arrays.asList("local-index1", "local-index2");
        assertFalse(RemoteClusterLicenseChecker.containsRemoteIndex(indices));
    }

    public void testRemoteIndex() {
        final List<String> indices = Arrays.asList("local-index", "remote-cluster:remote-index");
        assertTrue(RemoteClusterLicenseChecker.containsRemoteIndex(indices));
    }

    public void testRemoteIndices() {
        final List<String> indices = Arrays.asList("local-index", "remote-cluster:remote-index");
        assertEquals(RemoteClusterLicenseChecker.remoteIndices(indices), Arrays.asList("remote-cluster:remote-index"));
    }

    public void testNoRemoteClusterAliases() {
        final List<String> indices = Arrays.asList("local-index1", "local-index2");
        assertTrue(RemoteClusterLicenseChecker.containsRemoteIndex(indices));
    }

    public void testOneRemoteClusterAlias() {
        final List<String> indices = Arrays.asList("local-index1", "remote-cluster1:remote-index1");
        assertEquals(RemoteClusterLicenseChecker.remoteClusterAliases(indices), Arrays.asList("remote-cluster1"));
    }

}
public void testMoreThanOneRemoteClusterAlias() {
    final List<String> indices = Arrays.asList("remote-cluster1:remote-index1", "local-index1", "remote-cluster2:remote-index1");
    assertThat(RemoteClusterLicenseChecker.remoteClusterAliases(indices), contains("remote-cluster1", "remote-cluster2"));
}

public void testDuplicateRemoteClusterAlias() {
    final List<String> indices = Arrays.asList(
        "remote-cluster1:remote-index1", "local-index1", "remote-cluster2:index1", "remote-cluster2:remote-index2");
    assertThat(RemoteClusterLicenseChecker.remoteClusterAliases(indices), contains("remote-cluster1", "remote-cluster2"));
}

public void testCheckRemoteClusterLicensesGivenCompatibleLicenses() {
    final AtomicInteger index = new AtomicInteger();
    final List<XPackInfoResponse> responses = new ArrayList<>();
    final ThreadPool threadPool = createMockThreadPool();
    final Client client = createMockClient(threadPool);
    doAnswer(invocationMock -> {
        @SuppressWarnings("unchecked") ActionListener<XPackInfoResponse> listener = 
            (ActionListener<XPackInfoResponse>) invocationMock.getArguments()[2];
        listener.onResponse(responses.get(index.getAndIncrement()));
        return null;
    }).when(client).execute(same(XPackInfoAction.INSTANCE), any(), any());

    final List<String> remoteClusterAliases = Arrays.asList("valid1", "valid2", "valid3");
    responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
    responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
    responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));

    final RemoteClusterLicenseChecker licenseChecker = 
        new RemoteClusterLicenseChecker(client, XPackLicenseState::isPlatinumOrTrialOperationMode);
    final AtomicReference<RemoteClusterLicenseChecker.LicenseCheck> licenseCheck = new AtomicReference<>();

    licenseChecker.checkRemoteClusterLicenses(
        remoteClusterAliases,
        doubleInvocationProtectingListener(new ActionListener<RemoteClusterLicenseChecker.LicenseCheck>()
            {
                @Override
                public void onResponse(final RemoteClusterLicenseChecker.LicenseCheck response) {
                    licenseCheck.set(response);
                }
            }));
public void onFailure(final Exception e) {
    fail(e.getMessage());
}

verify(client, times(3)).execute(same(XPackInfoAction.INSTANCE), any(), any());
assertNotNull(licenseCheck.get());
assertTrue(licenseCheck.get().isSuccess());
}

public void testCheckRemoteClusterLicensesGivenIncompatibleLicense() {
    final AtomicInteger index = new AtomicInteger();
    final List<String> remoteClusterAliases = Arrays.asList("good", "cluster-with-basic-license", "good2");
    final List<XPackInfoResponse> responses = new ArrayList<>();
    responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
    responses.add(new XPackInfoResponse(null, createBasicLicenseResponse(), null));
    responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
    final ThreadPool threadPool = createMockThreadPool();
    final Client client = createMockClient(threadPool);
    doAnswer(invocationMock -> {
        @SuppressWarnings("unchecked") ActionListener<XPackInfoResponse> listener =
            (ActionListener<XPackInfoResponse>) invocationMock.getArguments()[2];
        listener.onResponse(responses.get(index.getAndIncrement()));
        return null;
    }).when(client).execute(same(XPackInfoAction.INSTANCE), any(), any());

    final RemoteClusterLicenseChecker licenseChecker =
        new RemoteClusterLicenseChecker(client, XPackLicenseState::isPlatinumOrTrialOperationMode);
    final AtomicReference<RemoteClusterLicenseChecker.LicenseCheck> licenseCheck = new
    AtomicReference<>();

    licenseChecker.checkRemoteClusterLicenses(
        remoteClusterAliases,
        doubleInvocationProtectingListener(new ActionListener<RemoteClusterLicenseChecker.LicenseCheck>(){

            @Override
            public void onResponse(final RemoteClusterLicenseChecker.LicenseCheck response) {
                licenseCheck.set(response);
            }

            @Override
            public void onFailure(final Exception e) {
                fail(e.getMessage());
            }

        }));

    final ThreadPool threadPool = createMockThreadPool();
    final Client client = createMockClient(threadPool);
    doAnswer(invocationMock -> {
        @SuppressWarnings("unchecked") ActionListener<XPackInfoResponse> listener =
            (ActionListener<XPackInfoResponse>) invocationMock.getArguments()[2];
        listener.onResponse(responses.get(index.getAndIncrement()));
        return null;
    }).when(client).execute(same(XPackInfoAction.INSTANCE), any(), any());
public void testCheckRemoteClusterLicencesGivenNonExistentCluster() {
    final AtomicInteger index = new AtomicInteger();
    final List<XPackInfoResponse> responses = new ArrayList<>();
    final List<String> remoteClusterAliases = Arrays.asList("valid1", "valid2", "valid3");
    final String failingClusterAlias = randomFrom(remoteClusterAliases);
    final ThreadPool threadPool = createMockThreadPool();
    final Client client = createMockClientThatThrowsOnGetRemoteClusterClient(threadPool, failingClusterAlias);

    verify(client, times(2)).execute(same(XPackInfoAction.INSTANCE), any(), any());
    assertNotNull(licenseCheck.get());
    assertFalse(licenseCheck.get().isSuccess());
    assertThat(licenseCheck.get().remoteClusterLicenseInfo().clusterAlias(), equalTo("cluster-with-basic-license"));
    assertThat(licenseCheck.get().remoteClusterLicenseInfo().licenseInfo().getType(), equalTo("BASIC"));
}

public void onResponse(final RemoteClusterLicenseChecker.LicenseCheck response) {
    fail();
}

public void onFailure(final Exception e) {
    exception.set(e);
}
assertNotNull(exception.get());
assertThat(exception.get(), instanceOf(ElasticsearchException.class));
assertThat(exception.get().getMessage(), equalTo("could not determine the license type for cluster [" + failingClusterAlias + "]")
assertNotNull(exception.get().getCause());
assertThat(exception.get().getCause(), instanceOf(IllegalArgumentException.class));
}

public void testRemoteClusterLicenseCallUsesSystemContext() throws InterruptedException {
    final ThreadPool threadPool = new TestThreadPool(getTestName());
    try {
        final Client client = createMockClient(threadPool);
        doAnswer(invocationMock -> {
            assertTrue(threadPool.getThreadContext().isSystemContext());
            @SuppressWarnings("unchecked") ActionListener<XPackInfoResponse> listener =
            (ActionListener<XPackInfoResponse>) invocationMock.getArguments()[2];
            listener.onResponse(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
            return null;
        }).when(client).execute(same(XPackInfoAction.INSTANCE), any(), any());
        final RemoteClusterLicenseChecker licenseChecker =
        new RemoteClusterLicenseChecker(client, XPackLicenseState::isPlatinumOrTrialOperationMode);
        final List<String> remoteClusterAliases = Collections.singletonList("valid");
        licenseChecker.checkRemoteClusterLicenses(
        remoteClusterAliases, doubleInvocationProtectingListener(ActionListener.wrap(() -> {})));
        verify(client, times(1)).execute(same(XPackInfoAction.INSTANCE), any(), any());
    } finally {
        terminate(threadPool);
    }
}

public void testListenerIsExecutedWithCallingContext() throws InterruptedException {
    final AtomicInteger index = new AtomicInteger();
    final List<XPackInfoResponse> responses = new ArrayList<>();
    final ThreadPool threadPool = new TestThreadPool(getTestName());
    try {
        final List<String> remoteClusterAliases = Arrays.asList("valid1", "valid2", "valid3");
        final Client client;
        final boolean failure = randomBoolean();
        final AtomicInteger index = new AtomicInteger();
        final List<XPackInfoResponse> responses = new ArrayList<>();
        final ThreadPool threadPool = new TestThreadPool(getTestName());
        try {
            final List<String> remoteClusterAliases = Arrays.asList("valid1", "valid2", "valid3");
            final Client client;
            final boolean failure = randomBoolean();
if (failure) {
    client = createMockClientThatThrowsOnGetRemoteClusterClient(threadPool, randomFrom(remoteClusterAliases));
} else {
    client = createMockClient(threadPool);
}
doAnswer(invocationMock -> {
    @SuppressWarnings("unchecked") ActionListener<XPackInfoResponse> listener =
        (ActionListener<XPackInfoResponse>) invocationMock.getArguments()[2];
    listener.onResponse(responses.get(index.getAndIncrement()));
    return null;
}).when(client).execute(same(XPackInfoAction.INSTANCE), any(), any());

responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));

final RemoteClusterLicenseChecker licenseChecker =
    new RemoteClusterLicenseChecker(client, XPackLicenseState::isPlatinumOrTrialOperationMode);

final AtomicBoolean listenerInvoked = new AtomicBoolean();
threadPool.getThreadContext().putHeader("key", "value");
licenseChecker.checkRemoteClusterLicenses(
    remoteClusterAliases,
    doubleInvocationProtectingListener(new
        ActionListener<RemoteClusterLicenseChecker.LicenseCheck>() {
            @Override
            public void onResponse(final RemoteClusterLicenseChecker.LicenseCheck response) {
                if (failure) {
                    fail();
                }
                assertThat(threadPool.getThreadContext().getHeader("key"), equalTo("value");
                assertFalse(threadPool.getThreadContext().isSystemContext());
                listenerInvoked.set(true);
            }

            @Override
            public void onFailure(final Exception e) {
                if (failure == false) {
                    fail();
                }
                assertThat(threadPool.getThreadContext().getHeader("key"), equalTo("value");
                assertFalse(threadPool.getThreadContext().isSystemContext());
                listenerInvoked.set(true);
            }
        }));

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assertTrue(listenerInvoked.get());
} finally {
    terminate(threadPool);
}

public void testBuildErrorMessageForActiveCompatibleLicense() {
    final XPackInfoResponse.LicenseInfo platinumLicence = createPlatinumLicenseResponse();
    final RemoteClusterLicenseChecker.RemoteClusterLicenseInfo info =
        new RemoteClusterLicenseChecker.RemoteClusterLicenseInfo("platinum-cluster", platinumLicence);
    final AssertionError e = expectThrows(
        AssertionError.class,
        () -> RemoteClusterLicenseChecker.buildErrorMessage("", info,
            RemoteClusterLicenseChecker::isLicensePlatinumOrTrial));
    assertThat(e, hasToString(containsString("license must be incompatible to build error message")));
}

public void testBuildErrorMessageForIncompatibleLicense() {
    final XPackInfoResponse.LicenseInfo basicLicense = createBasicLicenseResponse();
    final RemoteClusterLicenseChecker.RemoteClusterLicenseInfo info =
        new RemoteClusterLicenseChecker.RemoteClusterLicenseInfo("basic-cluster", basicLicense);
    assertThat(
        RemoteClusterLicenseChecker.buildErrorMessage("Feature", info,
            RemoteClusterLicenseChecker::isLicensePlatinumOrTrial),
        equalTo("the license mode [BASIC] on cluster [basic-cluster] does not enable [Feature]"));
}

public void testBuildErrorMessageForInactiveLicense() {
    final XPackInfoResponse.LicenseInfo expiredLicense = createExpiredLicenseResponse();
    final RemoteClusterLicenseChecker.RemoteClusterLicenseInfo info =
        new RemoteClusterLicenseChecker.RemoteClusterLicenseInfo("expired-cluster", expiredLicense);
    assertThat(
        RemoteClusterLicenseChecker.buildErrorMessage("Feature", info,
            RemoteClusterLicenseChecker::isLicensePlatinumOrTrial),
        equalTo("the license on cluster [expired-cluster] is not active"));
}

private ActionListener<RemoteClusterLicenseChecker.LicenseCheck> doubleInvocationProtectingListener(
    final ActionListener<RemoteClusterLicenseChecker.LicenseCheck> listener) {
    final AtomicBoolean listenerInvoked = new AtomicBoolean();
    return new ActionListener<RemoteClusterLicenseChecker.LicenseCheck>() {
        @Override
        public void onResponse(final RemoteClusterLicenseChecker.LicenseCheck response) {
            if (listenerInvoked.compareAndSet(false, true) == false) {
                fail("listener invoked twice");
            }
        }
    };
}
listener.onResponse(response);
}

@Override
public void onFailure(final Exception e) {
    if (listenerInvoked.compareAndSet(false, true) == false) {
        fail("listener invoked twice");
    }
    listener.onFailure(e);
}

private ThreadPool createMockThreadPool() {
    final ThreadPool threadPool = mock(ThreadPool.class);
    when(threadPool.getThreadContext()).thenReturn(new ThreadContext(Settings.EMPTY));
    return threadPool;
}

private Client createMockClient(final ThreadPool threadPool) {
    return createMockClient(threadPool, client ->
    when(client.getRemoteClusterClient(anyString())).thenReturn(client));
}

private Client createMockClientThatThrowsOnGetRemoteClusterClient(final ThreadPool threadPool, final String
    clusterAlias) {
    return createMockClient(
        threadPool,
        client -> {
            when(client.getRemoteClusterClient(clusterAlias)).thenThrow(new IllegalArgumentException());
            when(client.getRemoteClusterClient(argThat(not(clusterAlias)))).thenReturn(client);
        });
}

private Client createMockClient(final ThreadPool threadPool, final Consumer<Client> finish) {
    final Client client = mock(Client.class);
    when(client.threadPool()).thenReturn(threadPool);
    finish.accept(client);
    return client;
}

private XPackInfoResponse.LicenseInfo createPlatinumLicenseResponse() {
    return new XPackInfoResponse.LicenseInfo("uid", "PLATINUM", "PLATINUM", LicenseStatus.ACTIVE, randomNonNegativeLong());
}

private XPackInfoResponse.LicenseInfo createBasicLicenseResponse() {
return new XPackInfoResponse.LicenseInfo("uid", "BASIC", "BASIC", LicenseStatus.ACTIVE, randomNonNegativeLong());
}

private XPackInfoResponse.LicenseInfo createExpiredLicenseResponse() {
    return new XPackInfoResponse.LicenseInfo("uid", "PLATINUM", "PLATINUM", LicenseStatus.EXPIRED, randomNonNegativeLong());
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPostStartTrialAction extends TransportMasterNodeAction<PostStartTrialRequest,
PostStartTrialResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportPostStartTrialAction(Settings settings, TransportService transportService,
ClusterService clusterService,
            LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, PostStartTrialAction.NAME, transportService, clusterService, threadPool,
actionFilters, indexNameExpressionResolver, PostStartTrialRequest::new);
        this.licenseService = licenseService;
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.SAME;
    }
}
@Override
protected PostStartTrialResponse newResponse() {
    return new PostStartTrialResponse();
}

@Override
protected void masterOperation(PostStartTrialRequest request, ClusterState state,
        ActionListener<PostStartTrialResponse> listener) throws Exception {
    licenseService.startTrialLicense(request, listener);
}

@ Override
protected ClusterBlockException checkBlock(PostStartTrialRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
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===============================================================================

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package org.elasticsearch.client.license;

import java.util.Locale;

public enum LicensesStatus {
    VALID((byte) 0),
    INVALID((byte) 1),
    EXPIRED((byte) 2);

    private final byte id;

    LicensesStatus(byte id) {
        this.id = id;
    }

    public int id() {
        return id;
    }

    public static LicensesStatus fromId(int id) {
        if (id == 0) {
            return VALID;
        } else if (id == 1) {
            return INVALID;
        } else if (id == 2) {
            return EXPIRED;
        } else {
            throw new IllegalStateException("no valid LicensesStatus for id="+ id);
        }
    }

    @Override
    public String toString() {
        return this.name().toLowerCase(Locale.ROOT);
    }

    public static LicensesStatus fromString(String value) {
        switch (value) {
            case "valid":
                return VALID;
            case "invalid":
                return INVALID;
            default:
                return EXPIRED;
        }
    }
}
case "expired":
    return EXPIRED;
default:
    throw new IllegalArgumentException("unknown licenses status [" + value + "]");
}
}
*/

package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlocks;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.component.Lifecycle;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.env.Environment;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.watcher.watch.ClockMock;
import org.junit.After;
import org.junit.Before;
import java.nio.file.Path;
import java.util.Arrays;
import static java.util.Collections.emptySet;
import static java.util.Collections.singletonMap;
import static org.mockito.Mockito.mock;
import static org.mockito.Mockito.when;

public abstract class AbstractLicenseServiceTestCase extends ESTestCase {

    protected LicenseService licenseService;
    protected ClusterService clusterService;
    protected ResourceWatcherService resourceWatcherService;
    protected ClockMock clock;
    protected DiscoveryNodes discoveryNodes;
    protected Environment environment;


protected String licenseType;

@Before
public void init() throws Exception {
    clusterService = mock(ClusterService.class);
    clock = ClockMock.frozen();
    discoveryNodes = mock(DiscoveryNodes.class);
    resourceWatcherService = mock(ResourceWatcherService.class);
    environment = mock(Environment.class);
}

protected void setInitialState(License license, XPackLicenseState licenseState, Settings settings) {
    setInitialState(license, licenseState, settings, randomBoolean() ? "trial" : "basic");
}

protected void setInitialState(License license, XPackLicenseState licenseState, Settings settings, String selfGeneratedType) {
    Path tempDir = createTempDir();
    when(environment.configFile()).thenReturn(tempDir);
    licenseType = selfGeneratedType;
    settings = Settings.builder().put(settings).put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), licenseType).build();
    licenseService = new LicenseService(settings, clusterService, clock, environment, resourceWatcherService, licenseState);
    ClusterState state = mock(ClusterState.class);
    final ClusterBlocks noBlock = ClusterBlocks.builder().build();
    when(state.blocks()).thenReturn(noBlock);
    MetaData metaData = mock(MetaData.class);
    when(metaData.custom(LicensesMetaData.TYPE)).thenReturn(new LicensesMetaData(license, null));
    when(state.metaData()).thenReturn(metaData);
    final DiscoveryNode mockNode = getLocalNode();
    when(discoveryNodes.getMasterNode()).thenReturn(mockNode);
    when(discoveryNodes.spliterator()).thenReturn(Arrays.asList(mockNode).spliterator());
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(false);
    when(state.nodes()).thenReturn(discoveryNodes); // it is really ridiculous we have nodes() and getNodes()...
    when(clusterService.state()).thenReturn(state);
    when(clusterService.lifecycleState()).thenReturn(Lifecycle.State.STARTED);
    when(clusterService.getClusterName()).thenReturn(new ClusterName("a"));
    when(clusterService.localNode()).thenReturn(mockNode);
}

protected DiscoveryNode getLocalNode() {
    return new DiscoveryNode("b", buildNewFakeTransportAddress(),
        singletonMap(XPackPlugin.XPACK_INSTALLED_NODE_ATTR, "true"),
        emptySet(), Version.CURRENT);
}
@After
public void tearDown() throws Exception {
    super.tearDown();
    licenseService.stop();
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class GetTrialStatusRequestBuilder extends ActionRequestBuilder<GetTrialStatusRequest,
    GetTrialStatusResponse, GetTrialStatusRequestBuilder> {

    GetTrialStatusRequestBuilder(ElasticsearchClient client, GetTrialStatusAction action) {
        super(client, action, new GetTrialStatusRequest());
    }
}

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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<StartTrialResponse, Void>(

    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<StartTrialResponse, Void>(
        "start_trial_response",
        true,
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
definition type");
                }
            } else {
                if (entry.getValue() instanceof List) {
                    final List<String> messageStrings = new ArrayList<>();
                    // todo consolidate this parsing with the parsing in PutLicenseResponse
                    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
definition type");
                            }
                        } else {
                            if (entry.getValue() instanceof List) {
                                final List<String> messageStrings = new ArrayList<>();
                            } else {
                                if (entry.getValue() instanceof List) {
                                    final List<String> messageStrings = new ArrayList<>();
                                } else {
                                    throw new XContentParseException(parser getTokenLocation(), "unexpected acknowledgement
definition type");
                                }
                            }
                        }
                    }
                } else {
                    throw new XContentParseException(parser getTokenLocation(), "unexpected acknowledgement
definition 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;
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.support.PlainActionFuture;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.transport.TransportAddress;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;
import java.net.InetAddress;
import static java.util.Collections.emptyMap;
import static java.util.Collections.emptySet;
import static org.hamcrest.Matchers.containsString;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;

public class LicenseTLSTests extends AbstractLicenseServiceTestCase {

    private InetAddress inetAddress;

    public void testApplyLicenseInDevMode() throws Exception {

        License newLicense = TestUtils.generateSignedLicense(randomFrom("gold", "platinum"),
TimeValue.timeValueHours(24L));
    PutLicenseRequest request = new PutLicenseRequest();
    request.acknowledge(true);
    request.license(newLicense);
    Settings settings = Settings.builder().put("xpack.security.enabled", true).build();
    XPackLicenseState licenseState = new XPackLicenseState(settings);
    inetAddress = InetAddress.getLoopbackAddress();
    setInitialState(null, licenseState, settings);
    licenseService.start();
    PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
    licenseService.registerLicense(request, responseFuture);
    verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

    inetAddress = TransportAddress.META_ADDRESS;
    settings = Settings.builder()
        .put("xpack.security.enabled", true)
        .put("discovery.type", "single-node")
        .build();
    licenseService.stop();
    licenseState = new XPackLicenseState(settings);
    setInitialState(null, licenseState, settings);
    licenseService.start();
    licenseService.registerLicense(request, responseFuture);
    verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

public void testApplyLicenseInProdMode() throws Exception {
    final String licenseType = randomFrom("GOLD", "PLATINUM");
    License newLicense = TestUtils.generateSignedLicense(licenseType, TimeValue.timeValueHours(24L));
    PutLicenseRequest request = new PutLicenseRequest();
    request.acknowledge(true);
    request.license(newLicense);
    Settings settings = Settings.builder().put("xpack.security.enabled", true).build();
    XPackLicenseState licenseState = new XPackLicenseState(settings);
    inetAddress = TransportAddress.META_ADDRESS;
    setInitialState(null, licenseState, settings);
    licenseService.start();
    PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
    IllegalStateException e = expectThrows(IllegalStateException.class, () ->
        licenseService.registerLicense(request, responseFuture));
    assertThat(e.getMessage(), containsString("Cannot install a "] + licenseType + "] license unless TLS is configured or security is disabled");

    settings = Settings.builder().put("xpack.security.enabled", false).build();
    licenseService.stop();
}
licenseState = new XPackLicenseState(settings);
setInitialState(null, licenseState, settings);
licenseService.start();
licenseService.registerLicense(request, responseFuture);
verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

settings = Settings.builder()
    .put("xpack.security.enabled", true)
    .put("xpack.security.transport.ssl.enabled", true)
    .build();
licenseService.stop();
licenseState = new XPackLicenseState(settings);
setInitialState(null, licenseState, settings);
licenseService.start();
licenseService.registerLicense(request, responseFuture);
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

@Override
protected DiscoveryNode getLocalNode() {
    return new DiscoveryNode("localnode", new TransportAddress(inetAddress, randomIntBetween(9300, 9399)),
        emptyMap(), emptySet(), Version.CURRENT);
}

/*@Override*/

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package org.elasticsearch.license;

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

import java.io.IOException;

class GetBasicStatusResponse extends ActionResponse {
    private boolean eligibleToStartBasic;

    GetBasicStatusResponse() {
    }

    GetBasicStatusResponse(boolean eligibleToStartBasic) {
        this.eligibleToStartBasic = eligibleToStartBasic;
    }
}
boolean isEligibleToStartBasic() {
    return eligibleToStartBasic;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    eligibleToStartBasic = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    out.writeBoolean(eligibleToStartBasic);
}

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package org.elasticsearch.license;

import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.settings.Settings;
import org.mockito.ArgumentCaptor;
import org.mockito.Mockito;
import java.util.UUID;

import java.util.UUID;
import static org.elasticsearch.license.TestUtils.dateMath;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;

public class LicenseRegistrationTests extends AbstractLicenseServiceTestCase {

    public void testSelfGeneratedTrialLicense() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(null, licenseState, Settings.EMPTY, "trial");
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();

        ClusterState state = ClusterState.builder(new ClusterName("a")).build();
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
        ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
        LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertFalse(licenseMetaData.isEligibleForTrial());
        assertEquals("trial", licenseMetaData.getLicense().type());
        assertEquals(clock.millis() +
                LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.millis(),
                licenseMetaData.getLicense().expiryDate());
    }

    public void testSelfGeneratedBasicLicense() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(null, licenseState, Settings.EMPTY, "basic");
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();

        ClusterState state = ClusterState.builder(new ClusterName("a")).build();
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
        ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
        LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertTrue(licenseMetaData.isEligibleForTrial());
        assertEquals("basic", licenseMetaData.getLicense().type());
        assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
                licenseMetaData.getLicense().expiryDate());
    }
}
public void testNonSelfGeneratedBasicLicenseIsReplaced() throws Exception {
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    final License.Builder builder = License.builder()
        .uid(uid)
        .version(License.VERSION_CURRENT)
        .expiryDate(dateMath("now+2h", now))
        .startDate(now)
        .issueDate(now)
        .type("basic")
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    License license = TestUtils.generateSignedLicense(builder);

    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setInitialState(license, licenseState, Settings.EMPTY);
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
    licenseService.start();

    MetaData.Builder mdBuilder = MetaData.builder();
    mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
    ClusterState state = ClusterState.builder(new ClusterName("a")).metaData(mdBuilder.build()).build();
    ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
        ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
    verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
    ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
    LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
    assertNotNull(licenseMetaData);
    assertNotNull(licenseMetaData.getLicense());
    assertTrue(licenseMetaData.isEligibleForTrial());
    assertEquals("basic", licenseMetaData.getLicense().type());
    assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
        licenseMetaData.getLicense().expiryDate());
    assertEquals(uid, licenseMetaData.getLicense().uid());
}

public void testExpiredSelfGeneratedBasicLicenseIsExtended() throws Exception {
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    License.Builder builder = License.builder()
        .uid(uid)
        .issueDate(dateMath("now-10h", now))
        .expiryDate(dateMath("now-2h", now));
License license = SelfGeneratedLicense.create(builder, License.VERSION_CURRENT);

XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
setInitialState(license, licenseState, Settings.EMPTY);
when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
licenseService.start();

MetaData.Builder mdBuilder = MetaData.builder();
mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
ClusterState state = ClusterState.builder(new ClusterName("a")).metaData(mdBuilder.build()).build();
ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
assertNotNull(licenseMetaData);
assertNotNull(licenseMetaData.getLicense());
assertTrue(licenseMetaData.isEligibleForTrial());
assertEquals("basic", licenseMetaData.getLicense().type());
assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
licenseMetaData.getLicense().expiryDate());
assertEquals(uid, licenseMetaData.getLicense().uid());
}
}
*/
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetBasicStatusAction extends TransportMasterNodeReadAction<GetBasicStatusRequest,
GetBasicStatusResponse> {

@Inject
public TransportGetBasicStatusAction(Settings settings, TransportService transportService, ClusterService clusterService, ThreadPool threadPool, ActionFilters actionFilters, IndexNameExpressionResolver indexNameExpressionResolver) {
  super(settings, GetBasicStatusAction.NAME, transportService, clusterService, threadPool, actionFilters, indexNameExpressionResolver, GetBasicStatusRequest::new);
}

@Override
protected String executor() {
  return ThreadPool.Names.SAME;
}

@Override
protected GetBasicStatusResponse newResponse() {
  return new GetBasicStatusResponse();
}

@Override
protected void masterOperation(GetBasicStatusRequest request, ClusterState state, ActionListener<GetBasicStatusResponse> listener) throws Exception {
  LicensesMetaData licensesMetaData = state.metaData().custom(LicensesMetaData.TYPE);
  if (licensesMetaData == null) {
    listener.onResponse(new GetBasicStatusResponse(true));
  } else {
    License license = licensesMetaData.getLicense();
    listener.onResponse(new GetBasicStatusResponse(license == null || license.type().equals("basic") == false));
  }
}

@Override
protected ClusterBlockException checkBlock(GetBasicStatusRequest request, ClusterState state) {
  return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
}

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*
package org.elasticsearch.license;

import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;
import java.util.UUID;
import static org.elasticsearch.license.CryptUtils.encryptV3Format;
import static org.hamcrest.Matchers.equalTo;

public class SelfGeneratedLicenseTests extends ESTestCase {

    public void testBasic() throws Exception {
        long issueDate = System.currentTimeMillis();
        License.Builder specBuilder = License.builder()
                .uid(UUID.randomUUID().toString())
                .issuedTo("customer")
                .maxNodes(5)
                .type(randomBoolean() ? "trial" : "basic")
                .issueDate(issueDate)
                .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
        License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
        assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
    }

    public void testTampered() throws Exception {
        long issueDate = System.currentTimeMillis();
        License.Builder specBuilder = License.builder()
                .uid(UUID.randomUUID().toString())
                .issuedTo("customer")
                .maxNodes(5)
                .type(randomBoolean() ? "trial" : "basic")
                .issueDate(issueDate)
                .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
        License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
        assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
    }
}
final String originalSignature = trialLicense.signature();
License tamperedLicense = License.builder().fromLicenseSpec(trialLicense, originalSignature)
    .expiryDate(System.currentTimeMillis() + TimeValue.timeValueHours(5).getMillis())
    .build();
assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
assertThat(SelfGeneratedLicense.verify(tamperedLicense), equalTo(false));

public void testFrom1x() throws Exception {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("customer")
        .type("subscription")
        .subscriptionType("trial")
        .issuer("elasticsearch")
        .feature("")
        .version(License.VERSION_START)
        .maxNodes(5)
        .issueDate(issueDate)
        .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
    License pre20TrialLicense = specBuilder.build();
    License license =
    SelfGeneratedLicense.create(License.builder().fromPre20LicenseSpec(pre20TrialLicense).type("trial"),
        License.VERSION_CURRENT);
    assertThat(SelfGeneratedLicense.verify(license), equalTo(true));
}

public void testTrialLicenseVerifyWithOlderVersion() throws Exception {
    assumeFalse("Can't run in a FIPS JVM. We can't generate old licenses since PBEWithSHA1AndDESede is not
    available", inFipsJvm());
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .issuedTo("customer")
        .maxNodes(5)
        .issueDate(issueDate)
        .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis())
        .feature(""")
        .subscriptionType("trial")
        .version(1);
    License trialLicenseV1 = createTrialLicense(specBuilder);
    assertThat(SelfGeneratedLicense.verify(trialLicenseV1), equalTo(true));
}

private static License createTrialLicense(License.Builder specBuilder) {
    License spec = specBuilder
        .type(randomBoolean() ? "trial" : "basic")
        .issuer("elasticsearch")
.uid(UUID.randomUUID().toString())
 .build();

final String signature;
try {
    XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
    spec.toXContent(contentBuilder, new
    ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true"));
    byte[] encrypt = encryptV3Format(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
    byte[] bytes = new byte[4 + 4 + encrypt.length];
    ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
    byteBuffer.putInt(-spec.version())
    .putInt(encrypt.length)
    .put(encrypt);
    signature = Base64.getEncoder().encodeToString(bytes);
} catch (IOException e) {
    throw new IllegalStateException(e);
}
return License.builder().fromLicenseSpec(spec, signature).build();
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

import java.io.IOException;

class GetTrialStatusResponse extends ActionResponse {

    private boolean eligibleToStartTrial;

    GetTrialStatusResponse() {
    }

    GetTrialStatusResponse(boolean eligibleToStartTrial) {
        this.eligibleToStartTrial = eligibleToStartTrial;
    }

    boolean isEligibleToStartTrial() {
        return eligibleToStartTrial;
    }
}
public void readFrom(StreamInput in) throws IOException {
    eligibleToStartTrial = in.readBoolean();
}

public void writeTo(StreamOutput out) throws IOException {
    out.writeBoolean(eligibleToStartTrial);
}

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/*
 * Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.action.support.PlainActionFuture;
import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.client.transport.TransportClient;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.persistent.PersistentTasksCustomMetaData;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.test.junit.annotations.TestLogging;
import org.elasticsearch.transport.Transport;
import org.elasticsearch.xpack.core.TestXPackTransportClient;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.ml.action.CloseJobAction;
import org.elasticsearch.xpack.core.ml.action.DeleteDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.DeleteJobAction;
import org.elasticsearch.xpack.core.ml.action.GetDatafeedsStatsAction;
import org.elasticsearch.xpack.core.ml.action.GetJobsStatsAction;
import org.elasticsearch.xpack.core.ml.action.OpenJobAction;
import org.elasticsearch.xpack.core.ml.action.PutDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.PutJobAction;
import org.elasticsearch.xpack.core.ml.action.StartDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.StopDatafeedAction;
import org.elasticsearch.xpack.core.ml.client.MachineLearningClient;
import org.elasticsearch.xpack.core.ml.datafeed.DatafeedState;
import org.elasticsearch.xpack.core.ml.job.config.JobState;
import org.elasticsearch.xpack.core.ml.LocalStateMachineLearning;
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import org.elasticsearch.xpack.ml.LocalStateMachineLearning;
import org.elasticsearch.xpack.ml.LocalStateMachineLearning;
import org.elasticsearch.xpa...
enableLicensing();
ensureStableCluster(1);
ensureYellow();
}

public void testMachineLearningPutJobActionRestricted() throws Exception {
    String jobId = "testmachinelearningputjobactionrestricted";
    // Pick a license that does not allow machine learning
    License.OperationMode mode = randomInvalidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(false);
    // test that license restricted apis do not work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
        listener.actionGet();
        fail("put job action should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertThat(e.status(), is(RestStatus.FORBIDDEN));
        assertThat(e.getMessage(), containsString("non-compliant"));
        assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
    }
    // Pick a license that does allow machine learning
    mode = randomValidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(true);
    // test that license restricted apis do now work
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
        PutJobAction.Response response = listener.actionGet();
        assertNotNull(response);
    }
}

public void testMachineLearningOpenJobActionRestricted() throws Exception {
    String jobId = "testmachinelearningopenjobactionrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
    PutJobAction.Response response = putJobListener.actionGet();
    assertNotNull(response);
}

// Pick a license that does not allow machine learning
License.OperationMode mode = randomInvalidLicenseType();
enableLicensing(mode);
assertMLAllowed(false);
// test that license restricted apis do not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), listener);
    listener.actionGet();
    fail("open job action should not be enabled!");
} catch (ElasticsearchSecurityException e) {
    assertThat(e.status(), is(RestStatus.FORBIDDEN));
    assertThat(e.getMessage(), containsString("non-compliant"));
    assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
}

// Pick a license that does allow machine learning
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);
// now that the license is invalid, the job should get closed:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);
});

// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(innerCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), listener);
    AcknowledgedResponse response = listener.actionGet();
    assertNotNull(response);
}
public void testMachineLearningPutDatafeedActionRestricted() throws Exception {
    String jobId = "testmachinelearningputdatafeedactionrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
    }

    // Pick a license that does not allow machine learning
    License.OperationMode mode = randomInvalidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(false);
    // test that license restricted apis do not work
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutDatafeedAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))),
            listener);
        listener.actionGet();
        fail("put datafeed action should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertThat(e.status(), is(RestStatus.FORBIDDEN));
        assertThat(e.getMessage(), containsString("non-compliant"));
        assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
                hasItem(XPackField.MACHINE_LEARNING));
    }

    // Pick a license that does allow machine learning
    mode = randomValidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(true);
    // test that license restricted apis do now work
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutDatafeedAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))),
            listener);

new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))),
.listener);

PutDatafeedAction.Response response = listener.actionGet();
assertNotNull(response);
}
}

public void testAutoCloseJobWithDatafeed() throws Exception {
    String jobId = "testautoclosejobwithdatafeed";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + "-data";
    prepareCreate(datafeedIndex).addMapping("type", "{\"type\":{\"properties\":{\"time\":{\"type\":\"date\"}}}}",
        XContentType.JSON).get();
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        // put job
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        // put datafeed
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId,
            Collections.singletonList(datafeedIndex))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);
        // open job
        PlainActionFuture<AcknowledgedResponse> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        AcknowledgedResponse openJobResponse = openJobListener.actionGet();
        assertNotNull(openJobResponse);
        // start datafeed
        PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
            listener);
        listener.actionGet();
    }

    if (randomBoolean()) {
        enableLicensing(randomInvalidLicenseType());
    } else {
        disableLicensing();
    }
    assertMLAllowed(false);
// now that the license is invalid, the job should be closed and datafeed stopped:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);

    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STOPPED, datafeedState);

    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(0, tasks.taskMap().size());
});

enableLicensing(randomValidLicenseType());
assertMLAllowed(true);

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());

    // open job
    PlainActionFuture<AcknowledgedResponse> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    AcknowledgedResponse openJobResponse = openJobListener.actionGet();

    // start datafeed
    PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L), listener);
    listener.actionGet();
}

assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.OPENED, jobState);

    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STARTED, datafeedState);

    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(2, tasks.taskMap().size());
});

if (randomBoolean()) {
    enableLicensing(randomInvalidLicenseType());
} else {
    disableLicensing();
}
assertMLAllowed(false);

// now that the license is invalid, the job should be closed and datafeed stopped:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);

    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STOPPED, datafeedState);

    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetadataData tasks = state.metaData().custom(PersistentTasksCustomMetadataData.TYPE);
    assertEquals(0, tasks.taskMap().size());
});

public void testMachineLearningStartDatafeedActionRestricted() throws Exception {
    String jobId = "testmachinelearningstartdatafeedactionrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + "-data";
    prepareCreate(datafeedIndex).addMapping("type", "{"type":"{\"properties\":{\"time\":{\"type\":\"date\"}}}"},
            XContentType.JSON).get();
    // test that license restricted apis do not work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId,
            Collections.singletonList(datafeedIndex))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);
        PlainActionFuture<AcknowledgedResponse> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        AcknowledgedResponse openJobResponse = openJobListener.actionGet();
        assertNotNull(openJobResponse);
    }
    // Pick a license that does not allow machine learning
    License.OperationMode mode = randomInvalidLicenseType();
    enableLicensing(mode);
assertMLAllowed(false);

// now that the license is invalid, the job should get closed:
assertBusy() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);
    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(0, tasks.taskMap().size());
};

// test that license restricted apis do not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L), listener);
    listener.actionGet();
    fail("start datafeed action should not be enabled!");
} catch (ElasticsearchSecurityException e) {
    assertThat(e.status(), is(RestStatus.FORBIDDEN));
    assertThat(e.getMessage(), containsString("non-compliant");
    assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
}

// Pick a license that does allow machine learning
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);
// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    // re-open job now that the license is valid again
    PlainActionFuture<AcknowledgedResponse> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    AcknowledgedResponse openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
    PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L), listener);
    AcknowledgedResponse response = listener.actionGet();
    assertNotNull(response);
}
public void testMachineLearningStopDatafeedActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningstopdatafeedactionnotrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + "-data";
    prepareCreate(datafeedIndex).addMapping("type", "{"type":{"properties":{"time":{"type":"date"}}}}",
            XContentType.JSON).get();
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
                new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId,
                        Collections.singleton(datafeedIndex))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        PlainActionFuture<AcknowledgedResponse> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        AcknowledgedResponse openJobResponse = openJobListener.actionGet();
        PlainActionFuture<AcknowledgedResponse> startDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).startDatafeed(
                new StartDatafeedAction.Request(datafeedId, 0L), startDatafeedListener);
        AcknowledgedResponse startDatafeedResponse = startDatafeedListener.actionGet();
        assertNotNull(openJobResponse);
        boolean invalidLicense = randomBoolean();
        if (invalidLicense) {
            enableLicensing(randomInvalidLicenseType());
        } else {
            enableLicensing(randomValidLicenseType());
        }
        try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
            PlainActionFuture<StopDatafeedAction.Response> listener = PlainActionFuture.newFuture();
            new MachineLearningClient(client).stopDatafeed(new StopDatafeedAction.Request(datafeedId), listener);
            if (invalidLicense) {
                // the stop datafeed due to invalid license happens async, so check if the datafeed turns into stopped state:
            }
        }
    }
}
assertBusy(() -> {
    GetDatafeedsStatsAction.Response response =
        new MachineLearningClient(client)
            .getDatafeedsStats(new GetDatafeedsStatsAction.Request(datafeedId)).actionGet();
    assertEquals(DatafeedState.STOPPED, response.getResponse().results().get(0).getDatafeedState());
});
} else {
    listener.actionGet();
}

if (invalidLicense) {
    // the close due to invalid license happens async, so check if the job turns into closed state:
    assertBusy(() -> {
        GetJobsStatsAction.Response response =
            new MachineLearningClient(client).getJobsStats(new
                GetJobsStatsAction.Request(jobId)).actionGet();
        assertEquals(JobState.CLOSED, response.getResponse().results().get(0).getState());
    });
}
}

public void testMachineLearningCloseJobActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningclosejobactionnotrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        PlainActionFuture<AcknowledgedResponse> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        AcknowledgedResponse openJobResponse = openJobListener.actionGet();
        assertNotNull(openJobResponse);
    }

    boolean invalidLicense = randomBoolean();
    if (invalidLicense) {
        enableLicensing(randomInvalidLicenseType());
    } else {
        enableLicensing(randomValidLicenseType());
    }

    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {

Public void testMachineLearningDeleteJobActionNotRestricted() throws Exception {

    String jobId = "testmachinelearningclosejobactionnotrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());

        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        Put_jobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);

        License.OperationMode mode = randomLicenseType();
        enableLicensing(mode);

        try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
            client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());

            PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
            new MachineLearningClient(client).deleteJob(new DeleteJobAction.Request(jobId), listener);
            listener.actionGet();
        }
    }
}

Public void testMachineLearningDeleteDatafeedActionNotRestricted() throws Exception {

    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());

        PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).deleteJob(new DeleteJobAction.Request(jobId), listener);
        listener.actionGet();
    }
}

Public void testMachineLearningDeleteJobActionNotRestricted() throws Exception {

    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());

        PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).deleteJob(new DeleteJobAction.Request(jobId), listener);
        listener.actionGet();
    }
}

Public void testMachineLearningDeleteDatafeedActionNotRestricted() throws Exception {

    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());

        PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).deleteJob(new DeleteJobAction.Request(jobId), listener);
        listener.actionGet();
    }
}
String jobId = "testmachinelearningdeletedatafeedactionnotrestricted";
String datafeedId = jobId + ".datafeed";
assertMLAllowed(true);
// test that license restricted apis do now work
Settings settings = internalCluster().transportClient().settings();
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
    PutJobAction.Response putJobResponse = putJobListener.actionGet();
    assertNotNull(putJobResponse);
    PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putDatafeed(
        new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))), putDatafeedListener);
    PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
    assertNotNull(putDatafeedResponse);
}

// Pick a random license
License.OperationMode mode = randomLicenseType();
enableLicensing(mode);

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).deleteDatafeed(new DeleteDatafeedAction.Request(datafeedId), listener);
    listener.actionGet();
}

private static OperationMode randomInvalidLicenseType() {
    return randomFrom(License.OperationMode.GOLD, License.OperationMode.STANDARD, License.OperationMode.BASIC);
}

private static OperationMode randomValidLicenseType() {
    return randomFrom(License.OperationMode.TRIAL, License.OperationMode.PLATINUM);
}

private static OperationMode randomLicenseType() {
    return randomFrom(License.OperationMode.values());
}

private static void assertMLAllowed(boolean expected) {

for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
    assertEquals(licenseState.isMachineLearningAllowed(), expected);
}

public static void disableLicensing() {
    disableLicensing(randomValidLicenseType());
}

public static void disableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, false, null);
    }
}

public static void enableLicensing() {
    enableLicensing(randomValidLicenseType());
}

public static void enableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, true, null);
    }
}

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.apache.logging.log4j.util.Supplier;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.watcher.FileChangesListener;
import org.elasticsearch.watcher.FileWatcher;
import org.elasticsearch.watcher.ResourceWatcherService;
import java.io.IOException;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.concurrent.atomic.AtomicBoolean;
* File based watcher for license {@link OperationMode}
* Watches for changes in <code>licenseModePath</code>, use
* {@link #getCurrentOperationMode()} to access the latest mode
*
* In case of failure to read a valid operation mode from <code>licenseModePath</code>,
* the operation mode will default to PLATINUM
*/

public final class OperationModeFileWatcher implements FileChangesListener {
    private final ResourceWatcherService resourceWatcherService;
    private final Path licenseModePath;
    private final AtomicBoolean initialized = new AtomicBoolean();
    private final OperationMode defaultOperationMode = OperationMode.PLATINUM;
    private volatile OperationMode currentOperationMode = defaultOperationMode;
    private final Logger logger;
    private final Runnable onChange;

    public OperationModeFileWatcher(ResourceWatcherService resourceWatcherService, Path licenseModePath,
                                       Logger logger, Runnable onChange) {
        this.resourceWatcherService = resourceWatcherService;
        this.licenseModePath = licenseModePath;
        this.logger = logger;
        this.onChange = onChange;
    }

    public void init() {
        if (initialized.compareAndSet(false, true)) {
            final FileWatcher watcher = new FileWatcher(licenseModePath);
            watcher.addListener(this);
            try {
                resourceWatcherService.add(watcher, ResourceWatcherService.Frequency.HIGH);
                if (Files.exists(licenseModePath)) {
                    onChange(licenseModePath);
                }
            } catch (IOException e) {
                logger.error("couldn't initialize watching license mode file", e);
            }
        }
    }

    /**
     * Returns the current operation mode based on license mode file.
     * Defaults to {@link OperationMode#PLATINUM}
     */
    public OperationMode getCurrentOperationMode() {
        return currentOperationMode;
    }

    @Override
public void onFileInit(Path file) {
    onChange(file);
}

@Override
public void onFileCreated(Path file) {
    onChange(file);
}

@Override
public void onFileDeleted(Path file) {
    onChange(file);
}

@Override
public void onFileChanged(Path file) {
    onChange(file);
}

private synchronized void onChange(Path file) {
    if (file.equals(licenseModePath)) {
        try {
            if (Files.exists(licenseModePath) && Files.isReadable(licenseModePath)) {
                final byte[] content;
                try {
                    content = Files.readAllBytes(licenseModePath);
                } catch (IOException e) {
                    logger.error((Supplier<?>) () -> new ParameterizedMessage("couldn't read operation mode from [{}]", licenseModePath.toAbsolutePath()), e);
                    return;
                }
                // this UTF-8 conversion is much pickier than java String
                final String operationMode = new BytesRef(content).utf8ToString();
                try {
                    newOperationMode = OperationMode.resolve(operationMode);
                } catch (IllegalArgumentException e) {
                    logger.error((Supplier<?>) () -> new ParameterizedMessage("invalid operation mode in [{}]", licenseModePath.toAbsolutePath()), e);
                    return;
                }
            }
        } finally {
            // set this after the fact to prevent that we are jumping back and forth first setting to default and then reading the
// actual op mode resetting it.
this.currentOperationMode = newOperationMode;
}
onChange.run();

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"condition": {
  "script": {
    "source": "if (ctx.payload.check.hits.total == 0) {return false;}def license = ctx.payload.check.hits.hits[0]._source.license;if (license == null) {return false;}ctx.vars.fails_check = false;Instant expiry = Instant.ofEpochMilli(license.expiry_date_in_millis);ctx.vars.expiry = expiry;if (license.status != 'active') {ctx.vars.expired = true;ctx.vars.fails_check = true;ctx.metadata.xpack.severity = 2001;} else {Instant now = Instant.ofEpochMilli(new Date().getTime());ctx.vars.now = now;for (int i = ctx.metadata.xpack.expires_days.length - 1; i > -1; --i) {if (license.type == 'trial' && i < 2) {break;}Instant fromNow = now.plusSeconds(ctx.metadata.xpack.expires_days[i] * 24 * 60 * 60);if (fromNow.isAfter(expiry)) {ctx.vars.fails_check = true;ctx.metadata.xpack.severity = i * 1000;break;}}}ctx.vars.not_resolved = (ctx.payload.alert.hits.total == 1 && ctx.payload.alert.hits.hits[0]._source.resolved_timestamp == null);ctx.vars.update = ctx.vars.fails_check || ctx.vars.not_resolved;"
  },
  "transform": {
    "script": {
      "source": "ctx.vars.email_recipient = (ctx.payload.kibana_settings.hits.total > 0 &&
ctx.payload.kibana_settings.hits.hits[0]._source.kibana_settings.xpack != null) ?
ctx.payload.kibana_settings.hits.hits[0]._source.kibana_settings.xpack.default_admin_email : null;ctx.vars.is_new =
ctx.vars.fails_check && !ctx.vars.not_resolved;ctx.vars.is_resolved = !ctx.vars.fails_check &&
ctx.vars.not_resolved;def alertMessage = null;if (ctx.vars.fails_check) { alertMessage = 'Update your license.';} if
(ctx.vars.not_resolved) { ctx.payload = ctx.payload.alert.hits.hits[0]._source;ctx.payload.metadata =
ctx.metadata.xpack;ctx.payload.resolved_timestamp = ctx.execution_time; } else { ctx.payload = {'timestamp': ctx.execution_time, 'prefix': 'This cluster\'s license is going to expire in
{"relativeTime}\ {relativeTime}\ {absoluteTime}'};}"
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```java
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedRequestBuilder;
import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;

public class DeleteLicenseRequestBuilder extends AcknowledgedRequestBuilder<DeleteLicenseRequest,
AcknowledgedResponse,
DeleteLicenseRequestBuilder> {

```
public DeleteLicenseRequestBuilder(ElasticsearchClient client) {
    this(client, DeleteLicenseAction.INSTANCE);
}

/**
 * Creates new get licenses request builder
 *
 * @param client elasticsearch client
 */
public DeleteLicenseRequestBuilder(ElasticsearchClient client, DeleteLicenseAction action) {
    super(client, action, new DeleteLicenseRequest());
}
}

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Charset detection code from ICU4J (http://site.icu-project.org/)

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JUnRAR (https://github.com/edmund-wagner/junrar/)

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package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class PostStartBasicRequestBuilder extends ActionRequestBuilder<PostStartBasicRequest,
PostStartBasicResponse, PostStartBasicRequestBuilder> {  
   PostStartBasicRequestBuilder(ElasticsearchClient client, PostStartBasicAction action) {  
      super(client, action, new PostStartBasicRequest());  
   }

   public PostStartBasicRequestBuilder setAcknowledge(boolean acknowledge) {  
      request.acknowledge(acknowledge);  
      return this;  
   }
}

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package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequest;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.cluster.NamedDiff;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.io.stream.NamedWriteableRegistry;
import org.elasticsearch.common.settings.ClusterSettings;
import org.elasticsearch.common.settings.IndexScopedSettings;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.settings.SettingsFilter;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.plugins.ActionPlugin;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestHandler;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.function.Supplier;
import static org.elasticsearch.xpack.core.XPackClientActionPlugin.isTribeNode;
import static org.elasticsearch.xpack.core.XPackPlugin.transportClientMode;

import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.function.Supplier;
import static org.elasticsearch.xpack.core.XPackClientActionPlugin.isTribeNode;
import static org.elasticsearch.xpack.core.XPackPlugin.transportClientMode;
public class Licensing implements ActionPlugin {

    public static final String NAME = "license";
    protected final Settings settings;
    private final boolean isTransportClient;
    private final boolean isTribeNode;

    // Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits
    // are also carried out in XPackClientPlugin.java
    public List<NamedWriteableRegistry.Entry> getNamedWriteables() {
        List<NamedWriteableRegistry.Entry> entries = new ArrayList<>();
        entries.add(new NamedWriteableRegistry.Entry(MetaData.Custom.class, LicensesMetaData.TYPE,
                LicensesMetaData::new));
        entries.add(new NamedWriteableRegistry.Entry(NamedDiff.class, LicensesMetaData.TYPE,
                LicensesMetaData::readDiffFrom));
        return entries;
    }

    // Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits
    // are also carried out in XPackClientPlugin.java
    public List<NamedXContentRegistry.Entry> getNamedXContent() {
        List<NamedXContentRegistry.Entry> entries = new ArrayList<>();
        // Metadata
        entries.add(new NamedXContentRegistry.Entry(MetaData.Custom.class,
                new ParseField(LicensesMetaData.TYPE),
                LicensesMetaData::fromXContent));
        return entries;
    }

    public Licensing(Settings settings) {
        this.settings = settings;
        isTransportClient = transportClientMode(settings);
        isTribeNode = isTribeNode(settings);
    }

    @Override
    public List<ActionHandler<? extends ActionRequest, ? extends ActionResponse>> getActions() {
        if (isTribeNode) {
            return Collections.singletonList(new ActionHandler<>(GetLicenseAction.INSTANCE,
                    TransportGetLicenseAction.class));
        }
        return Arrays.asList(new ActionHandler<>(PutLicenseAction.INSTANCE, TransportPutLicenseAction.class),
                new ActionHandler<>(GetLicenseAction.INSTANCE, TransportGetLicenseAction.class),
                new ActionHandler<>(DeleteLicenseAction.INSTANCE, TransportDeleteLicenseAction.class),
                new ActionHandler<>(PostStartTrialAction.INSTANCE, TransportPostStartTrialAction.class),
                new ActionHandler<>(GetTrialStatusAction.INSTANCE, TransportGetTrialStatusAction.class));
    }
}
new ActionHandler<>(PostStartBasicAction.INSTANCE, TransportPostStartBasicAction.class),
new ActionHandler<>(GetBasicStatusAction.INSTANCE, TransportGetBasicStatusAction.class));
}

@Override
public List<RestHandler> getRestHandlers(Settings settings, RestController restController, ClusterSettings
clusterSettings,
IndexScopedSettings indexScopedSettings, SettingsFilter settingsFilter, IndexNameExpressionResolver
indexNameExpressionResolver,
Supplier<DiscoveryNodes> nodesInCluster) {
List<RestHandler> handlers = new ArrayList<>();
handlers.add(new RestGetLicenseAction(settings, restController));
if (false == isTribeNode) {
    handlers.add(new RestPutLicenseAction(settings, restController));
    handlers.add(new RestDeleteLicenseAction(settings, restController));
    handlers.add(new RestGetTrialStatus(settings, restController));
    handlers.add(new RestGetBasicStatus(settings, restController));
    handlers.add(new RestPostStartTrialLicense(settings, restController));
    handlers.add(new RestPostStartBasicLicense(settings, restController));
}
return handlers;
}

// Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits
to this file
// are also carried out in XPackClientPlugin.java
public List<Setting<?>> getSettings() {
    // TODO convert this wildcard to a real setting
    return Collections.singletonList(Setting.groupSetting("license.", Setting.Property.NodeScope));
}

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import org.elasticsearch.ElasticsearchParseException;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.RoleDescriptor;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissions;
public class FieldPermissionsTests extends ESTestCase {

    public void testParseFieldPermissions() throws Exception {
        String q = "{"indices": [ {"names": "idx2", "privileges": ["p3"]}, " +
        "field_security": {" +
        "grant": ["f1", "f2", "f3", "f4"]," +
        "except": ["f3","f4"]} +
        "} ] }";
        RoleDescriptor rd =
            RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
        assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
            new String[] { "f1", "f2", "f3", "f4" });
        assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(),
            new String[] { "f3", "f4" });

        q = "{"indices": [ {"names": "idx2", "privileges": ["p3"]}, " +
        "field_security": {" +
        "grant": ["f1", "f2", "f3", "f4"]," +
        "except": ["f3","f4"]} +
        "} ] }";
        rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
        assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
            new String[] { "f1", "f2", "f3", "f4" });
        assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(),
            new String[] { "f3", "f4" });

        q = "{"indices": [ {"names": "idx2", "privileges": ["p3"]}, " +
        "field_security": {" +
        "grant": ["f1", "f2"]} +
        "} ] }";
        rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
        assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
            new String[] { "f1", "f2" });
        assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

        q = "{"indices": [ {"names": "idx2", "privileges": ["p3"]}, " +
        "field_security": {" +
        "grant": ["f1", "f2", "f3", "f4"]} +
        "} ] }";
        rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
        assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
            new String[] { "f1", "f2", "f3", "f4" });
        assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
    }
}
"grant": [] + 
  "})]]");
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[] {});
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

q = "{"indices": [{ "names": "idx2", "privileges": ["p3"]}, " + 
  "field_security": {" + 
  "except": ["f1"], " + 
  "grant": ["] + 
  ")}]");
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[] {});
assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(), new String[] {});

final String exceptWithoutGrant = "{"indices": [{ "names": "idx2", "privileges": ["p3"], " + 
  "field_security": {" + 
  "except": ["f1"] + 
  "])}]");
ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class,
  () -> RoleDescriptor.parse("test", new BytesArray(exceptWithoutGrant), false,
                  XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. field_security" + " requires grant if except is given");

final String grantNull = "{"indices": [{ "names": "idx2", "privileges": ["p3"], " + 
  "field_security": {" + 
  "grant": null + 
  "])}]");
e = expectThrows(ElasticsearchParseException.class,
  () -> RoleDescriptor.parse("test", new BytesArray(grantNull), false,
                  XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. grant must not be null.");

final String exceptNull = "{"indices": [{ "names": "idx2", "privileges": ["p3"], " + 
  "field_security": {" + 
  "grant": ["*"], " + 
  "except": null + 
  "])}]");
e = expectThrows(ElasticsearchParseException.class,
  () -> RoleDescriptor.parse("test", new BytesArray(exceptNull), false,
                  XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. except must not be null.");

---

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final String exceptGrantNull = "{"indices": [ {"names": "idx2", "privileges": "[p3]", "field_security": {"grant": null, "except": null } } ] }";

e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(exceptGrantNull), false, XContentType.JSON);
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role \[test\]. grant must not be null.");

final String bothFieldsMissing = "{"indices": [ {"names": "idx2", "privileges": "[p3]\}, "field_security": {"grant": [], "except": [] } } ] }";

e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(bothFieldsMissing), false, XContentType.JSON);
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role \[test\]. \"field_security\" must not be empty.");

// try with two indices and mix order a little
q = "{"indices": [ {"names": "idx2", "privileges": [p3]}, "field_security": {"grant": [], "except": [f2], "privileged": [p3] } } ] }";

rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{});
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
assertArrayEquals(rd.getIndicesPrivileges()[1].getGrantedFields(), new String[]{"*"});
assertArrayEquals(rd.getIndicesPrivileges()[1].getDeniedFields(), new String[]{"f2"});

// test old syntax for field permissions
public void testBWCFieldPermissions() throws Exception {
    String q = "{"indices": [ {"names": "idx2", "privileges": [p3], "fields": [f1, f2] } ] }";

    RoleDescriptor rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
    assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[0], new String[]{"f1", "f2"});
    assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(), new String[]{});
}
final String failingQuery = q;
ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class,
    () -> RoleDescriptor.parse("test", new BytesArray(failingQuery), false,
    XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...] format has " +
"changed for field permissions in role [test]" +
"," use ["field_security": {"grant": [...]","except": [...]}}] instead");

q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], " +
"fields": [ ]" +
"}]"};
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{
null" +
"}]"});
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery2 = q;

e = expectThrows(ElasticsearchParseException.class,
    () -> RoleDescriptor.parse("test", new BytesArray(failingQuery2), false,
    XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...] format has " +
"changed for field permissions in role [test]" +
"," use ["field_security": {"grant": [...]","except": [...]}}] instead");

q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], " +
"fields": null" +
"}]"};
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertNull(rd.getIndicesPrivileges()[0].getGrantedFields());
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery3 = q;

e = expectThrows(ElasticsearchParseException.class,
    () -> RoleDescriptor.parse("test", new BytesArray(failingQuery3), false,
    XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...] format has " +
"changed for field permissions in role [test]" +
"," use ["field_security": {"grant": [...]","except": [...]}}] instead");
}

public void testFieldPermissionsHashCodeThreadSafe() throws Exception {
    final int numThreads = scaledRandomIntBetween(4, 16);
    final FieldPermissions fieldPermissions = new FieldPermissions(
        new FieldPermissionsDefinition(new String[] { "*" }, new String[] { "foo" }));
    final CountDownLatch latch = new CountDownLatch(numThreads + 1);
    final AtomicReferenceArray<Integer> hashCodes = new AtomicReferenceArray<>((numThreads);
    List<Thread> threads = new ArrayList<>((numThreads);
    for (int i = 0; i < numThreads; i++) {
        final int threadNum = i;
        threads.add(new Thread(() -> {
            latch.countDown();
        })
    }
}
try {
    latch.await();
} catch (InterruptedException e) {
    Thread.currentThread().interrupt();
}
final int hashCode = fieldPermissions.hashCode();
hashCodes.set(threadNum, hashCode);
});
}

for (Thread thread : threads) {
    thread.start();
}
latch.countDown();
for (Thread thread : threads) {
    thread.join();
}

final int hashCode = fieldPermissions.hashCode();
for (int i = 0; i < numThreads; i++) {
    assertEquals((Integer) hashCode, hashCodes.get(i));
}

public void testAllFieldIsAutomaticallyExcludedIfNotExplicitlyGranted() throws Exception {
    final FieldPermissions fieldPermissions = new FieldPermissions(
        new FieldPermissionsDefinition(new String[]{"_a*"}, new String[0]));
    assertTrue(fieldPermissions.grantsAccessTo("_animal"));
    assertFalse(fieldPermissions.grantsAccessTo("_all"));
}

public void testAllFieldIsNotExcludedIfExplicitlyGranted() throws Exception {
    final String[] grant = {"foo", "bar", "baz", "_all"};
    Collections.shuffle(Arrays.asList(grant), random());

    final FieldPermissions fieldPermissions = new FieldPermissions(
        new FieldPermissionsDefinition(grant, new String[0]));

    assertTrue(fieldPermissions.grantsAccessTo("_all"));
    assertTrue(fieldPermissions.grantsAccessTo("foo"));
    assertTrue(fieldPermissions.grantsAccessTo("bar"));
    assertTrue(fieldPermissions.grantsAccessTo("baz"));
    assertFalse(fieldPermissions.grantsAccessTo(randomAlphaOfLengthBetween(5, 8)));
}
*/

/*
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 * or more contributor license agreements. Licensed under the Elastic License;
import javax.crypto.BadPaddingException;
import javax.crypto.Cipher;
import javax.crypto.IllegalBlockSizeException;
import javax.crypto.NoSuchPaddingException;
import javax.crypto.SecretKey;
import javax.crypto.SecretKeyFactory;
import javax.crypto.spec.PBEKeySpec;
import javax.crypto.spec.SecretKeySpec;
import java.nio.charset.StandardCharsets;
import java.security.GeneralSecurityException;
import java.security.KeyFactory;
import java.security.MessageDigest;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.SecureRandom;
import java.security.NoSuchAlgorithmException;
import java.security.InvalidKeyException;
import java.security.spec.InvalidKeySpecException;
import java.security.spec.PKCS8EncodedKeySpec;
import java.security.spec.X509EncodedKeySpec;
import java.util.Base64;
public class CryptUtils {
    private static final byte[] SALT = {
        (byte) 0x74, (byte) 0x68, (byte) 0x69, (byte) 0x73,
        (byte) 0x69, (byte) 0x73, (byte) 0x74, (byte) 0x68,
        (byte) 0x65, (byte) 0x73, (byte) 0x61, (byte) 0x6C,
        (byte) 0x74, (byte) 0x77, (byte) 0x65, (byte) 0x75
    };
    private static final String KEY_ALGORITHM = "RSA";
    private static final char[] DEFAULT_PASS_PHRASE = "elasticsearch-license".toCharArray();
    private static final String KDF_ALGORITHM = "PBKDF2WithHmacSHA512";
    private static final int KDF_ITERATION_COUNT = 10000;
    private static final String CIPHER_ALGORITHM = "AES";
    // This can be changed to 256 once Java 9 is the minimum version
    // http://www.oracle.com/technetwork/java/javase/terms/readme/jdk9-readme-3852447.html#jce
    private static final int ENCRYPTION_KEY_LENGTH = 128;
    private static final SecureRandom RANDOM = new SecureRandom();

    /**
     * Read encrypted private key file content with default pass phrase
     */
public static PrivateKey readEncryptedPrivateKey(byte[] fileContents) {
    return readEncryptedPrivateKey(fileContents, DEFAULT_PASS_PHRASE, false);
}

/**
 * Returns encrypted private key file content with default pass phrase
 */
public static byte[] writeEncryptedPrivateKey(PrivateKey privateKey) {
    return writeEncryptedPrivateKey(privateKey, DEFAULT_PASS_PHRASE);
}

/**
 * Read encrypted private key file content with provided <code>passPhrase</code>
 */
public static PrivateKey readEncryptedPrivateKey(byte[] fileContents, char[] passPhrase, boolean preV4) {
    byte[] keyBytes = preV4 ? decryptV3Format(fileContents) : decrypt(fileContents, passPhrase);
    PKCS8EncodedKeySpec privateKeySpec = new PKCS8EncodedKeySpec(keyBytes);
    try {
        return KeyFactory.getInstance(KEY_ALGORITHM).generatePrivate(privateKeySpec);
    } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Read public key file content
 */
public static PublicKey readPublicKey(byte[] fileContents) {
    X509EncodedKeySpec publicKeySpec = new X509EncodedKeySpec(fileContents);
    try {
        return KeyFactory.getInstance(CryptUtils.KEY_ALGORITHM).generatePublic(publicKeySpec);
    } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Returns encrypted public key file content with provided <code>passPhrase</code>
 */
public static byte[] writeEncryptedPublicKey(PublicKey publicKey) {
    X509EncodedKeySpec encodedKeySpec = new X509EncodedKeySpec(publicKey.getEncoded());
    return encrypt(encodedKeySpec.getEncoded(), DEFAULT_PASS_PHRASE);
}

/**
 * Returns encrypted private key file content with provided <code>passPhrase</code>
 */
public static byte[] writeEncryptedPrivateKey(PrivateKey privateKey, char[] passPhrase) {

PKCS8EncodedKeySpec encodedKeySpec = new PKCS8EncodedKeySpec(privateKey.getEncoded());
return encrypt(encodedKeySpec.getEncoded(), passPhrase);
}

/**
 * Encrypts provided <code>data</code> with <code>DEFAULT_PASS_PHRASE</code>
 */
static byte[] encrypt(byte[] data) {
    return encrypt(data, DEFAULT_PASS_PHRASE);
}

/**
 * Decrypts provided <code>encryptedData</code> with <code>DEFAULT_PASS_PHRASE</code>
 */
static byte[] decrypt(byte[] encryptedData) {
    return decrypt(encryptedData, DEFAULT_PASS_PHRASE);
}

/**
 * Encrypts provided <code>data</code> with <code>passPhrase</code>
 */
private static byte[] encrypt(byte[] data, char[] passPhrase) {
    try {
        final Cipher encryptionCipher = getEncryptionCipher(deriveSecretKey(passPhrase));
        return encryptionCipher.doFinal(data);
    } catch (IllegalBlockSizeException | BadPaddingException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Decrypts provided <code>encryptedData</code> with <code>passPhrase</code>
 */
private static byte[] decrypt(byte[] encryptedData, char[] passPhrase) {
    try {
        final Cipher cipher = getDecryptionCipher(deriveSecretKey(passPhrase));
        return cipher.doFinal(encryptedData);
    } catch (IllegalBlockSizeException | BadPaddingException e) {
        throw new IllegalStateException(e);
    }
}

static byte[] encryptV3Format(byte[] data) {
    try {
        SecretKey encryptionKey = getV3Key();
        final Cipher encryptionCipher = getEncryptionCipher(encryptionKey);
        return encryptionCipher.doFinal(pad(data, 20));
    } catch (GeneralSecurityException e) {
try {
    SecretKey decryptionKey = getV3Key();
    final Cipher decryptionCipher = getDecryptionCipher(decryptionKey);
    return unPad(decryptionCipher.doFinal(data));
} catch (GeneralSecurityException e) {
    throw new IllegalStateException(e);
}

private static SecretKey getV3Key() throws NoSuchAlgorithmException, InvalidKeySpecException {
    final byte[] salt = {
        (byte) 0xA9, (byte) 0xA2, (byte) 0xB5, (byte) 0xDE,
        (byte) 0x2A, (byte) 0x8A, (byte) 0x9A, (byte) 0xE6
    };
    final byte[] passBytes = "elasticsearch-license".getBytes(StandardCharsets.UTF_8);
    final byte[] digest = MessageDigest.getInstance("SHA-512").digest(passBytes);
    final char[] hashedPassphrase = Base64.getEncoder().encodeToString(digest).toCharArray();
    PBEKeySpec keySpec = new PBEKeySpec(hashedPassphrase, salt, 1024, 128);
    byte[] shortKey = SecretKeyFactory.getInstance("PBEWithSHA1AndDESede").
    generateSecret(keySpec).getEncoded();
    byte[] intermediaryKey = new byte[16];
    for (int i = 0, j = 0; i < 16; i++) {
        intermediaryKey[i] = shortKey[j];
        if (++j == shortKey.length)
            j = 0;
    }
    return new SecretKeySpec(intermediaryKey, "AES");
}

private static SecretKey deriveSecretKey(char[] passPhrase) {
    try {
        PBEKeySpec keySpec = new PBEKeySpec(passPhrase, SALT, KDF_ITERATION_COUNT, ENCRYPTION_KEY_LENGTH);
        SecretKey secretKey = SecretKeyFactory.getInstance(KDF_ALGORITHM).generateSecret(keySpec);
        return new SecretKeySpec(secretKey.getEncoded(), CIPHER_ALGORITHM);
    } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}

private static Cipher getEncryptionCipher(SecretKey secretKey) {
return getCipher(Cipher.ENCRYPT_MODE, secretKey);
}

private static Cipher getDecryptionCipher(SecretKey secretKey) {
    return getCipher(Cipher.DECRYPT_MODE, secretKey);
}

private static Cipher getCipher(int mode, SecretKey secretKey) {
    try {
        Cipher cipher = Cipher.getInstance(CIPHER_ALGORITHM);
        cipher.init(mode, secretKey, RANDOM);
        return cipher;
    } catch (NoSuchAlgorithmException | InvalidKeyException | NoSuchPaddingException e) {
        throw new IllegalStateException(e);
    }
}

private static byte[] pad(byte[] bytes, int length) {
    if (bytes.length >= length) {
        byte[] out = new byte[bytes.length + 1];
        System.arraycopy(bytes, 0, out, 0, bytes.length);
        out[bytes.length] = (byte) 1;
        return out;
    }
    byte[] out = new byte[length + 1];
    int i = 0;
    for (; i < bytes.length; i++)
        out[i] = bytes[i];
    int padded = length - i;

    // fill the rest with random bytes
    byte[] fill = new byte[padded - 1];
    RANDOM.nextBytes(fill);
    System.arraycopy(fill, 0, out, i, padded - 1);
    out[length] = (byte) (padded + 1);

    return out;
}

private static byte[] unPad(byte[] bytes) {
    int padded = (int) bytes[bytes.length - 1];
    int targetLength = bytes.length - padded;

    byte[] out = new byte[targetLength];
System.arraycopy(bytes, 0, out, 0, targetLength);
return out;
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.LoggingDeprecationHandler;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.common.xcontent.XContentType;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;
import static org.elasticsearch.license.CryptUtils.encryptV3Format;
import static org.elasticsearch.license.CryptUtils.encrypt;
import static org.elasticsearch.license.CryptUtils.decryptV3Format;
import static org.elasticsearch.license.CryptUtils.decrypt;

class SelfGeneratedLicense {
    public static License create(License.Builder specBuilder, DiscoveryNodes currentNodes) {
        return create(specBuilder, LicenseUtils.compatibleLicenseVersion(currentNodes));
    }

    public static License create(License.Builder specBuilder, int version) {
        License spec = specBuilder
            .issuer("elasticsearch")
            .version(version)
            .build();
        final String signature;
        try {
            XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
            spec.toXContent(contentBuilder, new
                ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
            byte[] encrypt;
            if (version < License.VERSION_CRYPTO_ALGORITHMS) {
                encrypt = encryptV3Format(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
            } else {
                encrypt = encrypt(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
            }
            byte[] bytes = new byte[4 + 4 + encrypt.length];
            ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
            // Set -version in signature
            byteBuffer.putInt(-version)
                .putInt(encrypt.length)
                .put(encrypt);
            signature = Base64.getEncoder().encodeToString(bytes);
        } catch (IOException e) {
            throw new IllegalStateException(e);
        }
        return License.builder().fromLicenseSpec(spec, signature).build();
    }
}
public static boolean verify(final License license) {
    try {
        byte[] signatureBytes = Base64.getDecoder().decode(license.signature());
        ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
        int version = byteBuffer.getInt();
        int contentLen = byteBuffer.getInt();
        byte[] content = new byte[contentLen];
        byteBuffer.get(content);
        final License expectedLicense;

        // Version in signature is -version, so check for -(version) < 4
        byte[] decryptedContent = (-version < License.VERSION_CRYPTO_ALGORITHMS) ?
            decryptV3Format(content) : decrypt(content);

        // EMPTY is safe here because we don't call namedObject
        try (XContentParser parser = XContentFactory.xContent(XContentType.JSON).
            createParser(NamedXContentRegistry.EMPTY, LoggingDeprecationHandler.INSTANCE,
                decryptedContent)) {
            parser.nextToken();
            expectedLicense = License.builder().fromLicenseSpec(License.fromXContent(parser),
                license.signature()).version(-version).build();
        }
        return license.equals(expectedLicense);
    } catch (IOException e) {
        throw new IllegalStateException(e);
    }
}

public static boolean validSelfGeneratedType(String type) {
    return "basic".equals(type) || "trial".equals(type);
}

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/*
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package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.action.DocWriteResponse;
import org.elasticsearch.action.admin.cluster.health.ClusterHealthResponse;
import org.elasticsearch.action.admin.cluster.node.info.NodesInfoRequest;
import org.elasticsearch.action.admin.cluster.node.stats.NodesStatsResponse;
import org.elasticsearch.action.admin.cluster.stats.ClusterStatsIndices;
import org.elasticsearch.action.admin.cluster.stats.ClusterStatsResponse;
import org.elasticsearch.action.admin.indices.stats.IndicesStatsResponse;
import org.elasticsearch.action.index.IndexResponse;
import org.elasticsearch.client.Client;
import org.elasticsearch.client.Request;
import org.elasticsearch.client.RequestOptions;
import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.transport.NoNodeAvailableException;
import org.elasticsearch.client.transport.TransportClient;
import org.elasticsearch.cluster.routing.ShardRoutingState;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.SecureString;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.util.concurrent.ThreadContext;
import org.elasticsearch.discovery.DiscoveryModule;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.test.SecurityIntegTestCase;
import org.elasticsearch.test.SecuritySettingsSource;
import org.elasticsearch.test.SecuritySettingsSourceField;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.test.junit.annotations.TestLogging;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.TestXPackTransportClient;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.security.SecurityField;
import org.elasticsearch.xpack.core.security.action.user.PutUserResponse;
import org.elasticsearch.xpack.core.security.authc.support.Hasher;
import org.elasticsearch.xpack.core.security.client.SecurityClient;
import org.elasticsearch.xpack.security.LocalStateSecurity;
import org.junit.After;
import org.junit.Before;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.List;
import java.util.stream.Collectors;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.discovery.zen.SettingsBasedHostsProvider.DISCOVERY_ZEN_PING_UNICAST_HOSTS_SETTING;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertNoFailures;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.greaterThanOrEqualTo;
import static org.hamcrest.Matchers.hasItem;
import static org.hamcrest.Matchers.is;
import static org.hamcrest.Matchers.notNullValue;

@TestLogging("org.elasticsearch.cluster.service:TRACE,org.elasticsearch.discovery.zen:TRACE,org.elasticsearch.action.search:TRACE," +
"org.elasticsearch.search:TRACE")
public class LicensingTests extends SecurityIntegTestCase {

    public static final String ROLES =
            SecuritySettingsSource.TEST_ROLE + ":
            " cluster: [ all ]\n" indices:\n" +
            " - names: "*\n" +
            " privileges: [manage]\n" +
            " - names: '.*\n" +
            " privileges: [write]\n" +
            " - names: 'test\n" +
            " privileges: [read]\n" +
            " - names: 'test1\n" +
            " privileges: [read]\n" +
            '\n" +
            "role_a:\n" +
            " indices:\n" +
            " - names: 'a\n" +
            " privileges: [all]\n" +
            '\n" +
            "role_b:\n" +
            " indices:\n" +
            " - names: 'b\n" +
            " privileges: [all]\n";

    public static final String USERS_ROLES =

SecuritySettingsSource.CONFIG_STANDARD_USER_ROLES +
"role_a:user_a,user_b\n" +
"role_b:user_b\n";

@Override
protected String configRoles() {
    return ROLES;
}

@Override
protected String configUsers() {
    return SecuritySettingsSource.CONFIG_STANDARD_USER +
"user_a:{plain}passwd\n" +
"user_b:{plain}passwd\n";
}

@Override
protected String configUsersRoles() {
    return USERS_ROLES;
}

@Override
public Settings nodeSettings(int nodeOrdinal) {
    return Settings.builder().put(super.nodeSettings(nodeOrdinal))
        .put(NetworkModule.HTTP_ENABLED.getKey(), true)
        .put(TestZenDiscovery.USE_MOCK_PINGS.getKey(), false)
        .build();
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>(super.nodePlugins());
    plugins.add(Netty4Plugin.class); // for http
    return plugins;
}

@Override
protected int maxNumberOfNodes() {
    return super.maxNumberOfNodes() + 1;
}

@Before
public void resetLicensing() {
    enableLicensing();
}

@After
public void cleanupSecurityIndex() {

deleteSecurityIndex();
}

public void testEnableDisableBehaviour() throws Exception {
    IndexResponse indexResponse = index("test", "type", jsonBuilder()
        .startObject()
        .field("name", "value")
        .endObject());
    assertEquals(DocWriteResponse.Result.CREATED, indexResponse.getResult());

    indexResponse = index("test1", "type", jsonBuilder()
        .startObject()
        .field("name", "value1")
        .endObject());
    assertEquals(DocWriteResponse.Result.CREATED, indexResponse.getResult());

    refresh();
    // wait for all replicas to be started (to make sure that there are no more cluster state updates when we disable
    licensing)
    assertBusy(() -> assertTrue(client().admin().cluster().prepareState().get().getState().routingTable()
        .shardsWithState(ShardRoutingState.INITIALIZING).isEmpty()));

    Client client = internalCluster().transportClient();
    disableLicensing();

    assertElasticsearchSecurityException(() -> client.admin().indices().prepareStats().get());
    assertElasticsearchSecurityException(() -> client.admin().cluster().prepareClusterStats().get());
    assertElasticsearchSecurityException(() -> client.admin().cluster().prepareHealth().get());
    assertElasticsearchSecurityException(() -> client.admin().cluster().prepareNodesStats().get());

    enableLicensing(randomFrom(License.OperationMode.values()));

    IndicesStatsResponse indicesStatsResponse = client.admin().indices().prepareStats().get();
    assertNoFailures(indicesStatsResponse);

    ClusterStatsResponse clusterStatsNodeResponse = client.admin().cluster().prepareClusterStats().get();
    assertThat(clusterStatsNodeResponse, notNullValue());
    ClusterStatsIndices indices = clusterStatsNodeResponse.getIndicesStats();
    assertThat(indices, notNullValue());
    assertThat(indices.getIndexCount(), greaterThanOrEqualTo(2));

    ClusterHealthResponse clusterIndexHealth = client.admin().cluster().prepareHealth().get();
    assertThat(clusterIndexHealth, notNullValue());

    NodesStatsResponse nodeStats = client.admin().cluster().prepareNodesStats().get();
    assertThat(nodeStats, notNullValue());
public void testRestAuthenticationByLicenseType() throws Exception {
    Response unauthorizedRootResponse = getRestClient().performRequest(new Request("GET", "/"));
    // the default of the licensing tests is basic
    assertThat(unauthorizedRootResponse.getStatusLine().getStatusCode(), is(200));
    ResponseException e = expectThrows(ResponseException.class, () -> getRestClient().performRequest(new Request("GET", "/_xpack/security/_authenticate")));
    assertThat(e.getResponse().getStatusLine().getStatusCode(), is(403));

    // generate a new license with a mode that enables auth
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD, License.OperationMode.TRIAL,
                                              License.OperationMode.Platinum, License.OperationMode.STANDARD);
    enableLicensing(mode);
    e = expectThrows(ResponseException.class, () -> getRestClient().performRequest(new Request("GET", "/")));
    assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));
    e = expectThrows(ResponseException.class, () -> getRestClient().performRequest(new Request("GET", "/_xpack/security/_authenticate")));
    assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));

    RequestOptions.Builder optionsBuilder = RequestOptions.DEFAULT.toBuilder();
    optionsBuilder.addHeader("Authorization", UsernamePasswordToken.basicAuthHeaderValue(SecuritySettingsSource.TEST_USER_NAME,
                                                                 new SecureString(SecuritySettingsSourceField.TEST_PASSWORD.toCharArray())));
    RequestOptions options = optionsBuilder.build();

    Request rootRequest = new Request("GET", "/");
    rootRequest.setOptions(options);
    Response authorizedRootResponse = getRestClient().performRequest(rootRequest);
    assertThat(authorizedRootResponse.getStatusLine().getStatusCode(), is(200));
    Request authenticateRequest = new Request("GET", "/_xpack/security/_authenticate");
    authenticateRequest.setOptions(options);
    Response authorizedAuthenticateResponse = getRestClient().performRequest(authenticateRequest);
    assertThat(authorizedAuthenticateResponse.getStatusLine().getStatusCode(), is(200));
}

public void testSecurityActionsByLicenseType() throws Exception {
    // security actions should not work!
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getNodeInstance(Transport.class).boundAddress().publishAddress());
        fail("security actions should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertThat(e.status(), is(RestStatus.FORBIDDEN));
        assertThat(e.getMessage(), containsString("non-compliant"));
    }
}

// enable a license that enables security
License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.TRIAL,
License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
enableLicensing(mode);
// security actions should work!
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateSecurity.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());

assertNotNull(response);
}
public void testTransportClientAuthenticationByLicenseType() throws Exception {
Settings.Builder builder = Settings.builder()
  .put(internalCluster().transportClient().settings());
// remove user info
builder.remove(SecurityField.USER_SETTING.getKey());
builder.remove(ThreadContext.PREFIX + "." + UsernamePasswordToken.BASIC_AUTH_HEADER);

// basic has no auth
try (TransportClient client = new TestXPackTransportClient(builder.build(), LocalStateSecurity.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
assertGreenClusterState(client);
}
// enable a license that enables security
License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.TRIAL,
License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
enableLicensing(mode);

try (TransportClient client = new TestXPackTransportClient(builder.build(), LocalStateSecurity.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());

client.admin().cluster().prepareHealth().get();
fail("should not have been able to connect to a node!");
} catch (NoNodeAvailableException e) {
  // expected
}

public void testNodeJoinWithoutSecurityExplicitlyEnabled() throws Exception {

License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
enableLicensing(mode);
ensureGreen();

final List<String> unicastHostsList = internalCluster().masterClient().admin().cluster().nodesInfo(new
NodesInfoRequest()).get()
    .getNodes().stream().map(n -> n.getTransport().getAddress().publishAddress().toString()).distinct()
    .collect(Collectors.toList());

Path home = createTempDir();
Path conf = home.resolve("config");
Files.createDirectories(conf);
Settings nodeSettings = Settings.builder()
    .put(nodeSettings(maxNumberOfNodes() - 1).filter(s -> "xpack.security.enabled".equals(s) == false))
    .put("node.name", "my-test-node")
    .put("network.host", "localhost")
    .put("cluster.name", internalCluster().getClusterName())
    .put("discovery.zen.minimum_master_nodes", internalCluster().getInstance(Settings.class).get("discovery.zen.minimum_master_nodes"))
    .put("path.home", home)
    .put(TestZenDiscovery.USE_MOCK_PINGS.getKey(), false)
    .putList(DiscoveryModule.DISCOVERY_TYPE_SETTING.getKey(), "test-zen")
    .putList(DISCOVERY_ZEN_PING_UNICAST_HOSTS_SETTING.getKey(), unicastHostsList)
    .build();
Collection<Class<? extends Plugin>> mockPlugins = Arrays.asList(LocalStateSecurity.class,
TestZenDiscovery.TestPlugin.class);
try (Node node = new MockNode(nodeSettings, mockPlugins)) {
    node.start();
    ensureStableCluster(cluster().size() + 1);
}

private static void assertElasticsearchSecurityException(ThrowingRunnable runnable) {
    ElasticsearchSecurityException ee = expectThrows(ElasticsearchSecurityException.class, runnable);
    assertThat(ee.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
        hasItem(XPackField.SECURITY));
    assertThat(ee.status(), is(RestStatus.FORBIDDEN));
}

public static void disableLicensing() {
    disableLicensing(License.OperationMode.BASIC);
}

public static void disableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, false, null);
    }
}
public static void enableLicensing() {
    enableLicensing(License.OperationMode.BASIC);
}

public static void enableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, true, null);
    }
}

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 */
package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.LogManager;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.apache.logging.log4j.util.Supplier;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.time.Clock;
import java.util.UUID;

public class StartupSelfGeneratedLicenseTask extends ClusterStateUpdateTask {
    private static final Logger logger = LogManager.getLogger(StartupSelfGeneratedLicenseTask.class);

    private int selfGeneratedLicenseMaxNodes = 1000;
    private final Settings settings;
    private final Clock clock;
    private final ClusterService clusterService;

    /**
     * Max number of nodes licensed by generated trial license
     */
    private int selfGeneratedLicenseMaxNodes = 1000;

    private final Settings settings;
    private final Clock clock;
    private final ClusterService clusterService;
public StartupSelfGeneratedLicenseTask(Settings settings, Clock clock, ClusterService clusterService) {
    this.settings = settings;
    this.clock = clock;
    this.clusterService = clusterService;
}

@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
    LicensesMetaData licensesMetaData = newState.metaData().custom(LicensesMetaData.TYPE);
    if (logger.isDebugEnabled()) {
        logger.debug("registered self generated license: {}", licensesMetaData);
    }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    final MetaData metaData = currentState.metaData();
    final LicensesMetaData currentLicensesMetaData = metaData.custom(LicensesMetaData.TYPE);
    // do not generate a license if any license is present
    if (currentLicensesMetaData == null) {
        String type = LicenseService.SELF_GENERATED_LICENSE_TYPE.get(settings);
        if (!SelfGeneratedLicense.validSelfGeneratedType(type)) {
            throw new IllegalArgumentException("Illegal self generated license type [" + type + "]\nMust be trial or basic.");
        }
        return updateWithLicense(currentState, type);
    } else if (LicenseUtils.signatureNeedsUpdate(currentLicensesMetaData.getLicense(), currentState.nodes())) {
        return updateLicenseSignature(currentState, currentLicensesMetaData);
    } else if (LicenseUtils.licenseNeedsExtended(currentLicensesMetaData.getLicense())) {
        return extendBasic(currentState, currentLicensesMetaData);
    } else {
        return currentState;
    }
}

private ClusterState updateLicenseSignature(ClusterState currentState, LicensesMetaData currentLicenseMetaData) {
    License license = currentLicenseMetaData.getLicense();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    String type = license.type();
    long issueDate = license.issueDate();
    long expiryDate = license.expiryDate();
    // extend the basic license expiration date if needed since extendBasic will not be called now
    if (!"basic".equals(type) && expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
        expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
        return updateWithLicense(currentState, type);
    }
}

private ClusterState updateWithLicense(ClusterState currentState, String type) {
    LicensesMetaData licensesMetaData = new LicenseService().generateLicense(type, settings);
    try {
        licensesMetaData.addLicense(currentState.nodes().size(), this.clock, this.clusterService);
        return currentNodeState(
            currentState
                .metaData(currentState.metaData().put(LicensesMetaData.TYPE, licensesMetaData))
                .addCustomPrimaryTerm("xpack.license.expiry", expiryDate));
    } catch (...)
    {
        logger.error("Failed to generate self generated license.");
        return currentState;
    }
}

public StartupSelfGeneratedLicenseTask(Settings settings, Clock clock, ClusterService clusterService) {
    this.settings = settings;
    this.clock = clock;
    this.clusterService = clusterService;
}

@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
    LicensesMetaData licensesMetaData = newState.metaData().custom(LicensesMetaData.TYPE);
    if (logger.isDebugEnabled()) {
        logger.debug("registered self generated license: {}", licensesMetaData);
    }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    final MetaData metaData = currentState.metaData();
    final LicensesMetaData currentLicensesMetaData = metaData.custom(LicensesMetaData.TYPE);
    // do not generate a license if any license is present
    if (currentLicensesMetaData == null) {
        String type = LicenseService.SELF_GENERATED_LICENSE_TYPE.get(settings);
        if (!SelfGeneratedLicense.validSelfGeneratedType(type)) {
            throw new IllegalArgumentException("Illegal self generated license type [" + type + "]\nMust be trial or basic.");
        }
        return updateWithLicense(currentState, type);
    } else if (LicenseUtils.signatureNeedsUpdate(currentLicensesMetaData.getLicense(), currentState.nodes())) {
        return updateLicenseSignature(currentState, currentLicensesMetaData);
    } else if (LicenseUtils.licenseNeedsExtended(currentLicensesMetaData.getLicense())) {
        return extendBasic(currentState, currentLicensesMetaData);
    } else {
        return currentState;
    }
}

private ClusterState updateLicenseSignature(ClusterState currentState, LicensesMetaData currentLicenseMetaData) {
    License license = currentLicenseMetaData.getLicense();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    String type = license.type();
    long issueDate = license.issueDate();
    long expiryDate = license.expiryDate();
    // extend the basic license expiration date if needed since extendBasic will not be called now
    if (!"basic".equals(type) && expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
        expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
        return updateWithLicense(currentState, type);
    }
}
License.Builder specBuilder = License.builder()
    .uid(license.uid())
    .issuedTo(license.issuedTo())
    .maxNodes(selfGeneratedLicenseMaxNodes)
    .issueDate(issueDate)
    .type(type)
    .expiryDate(expiryDate);
License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
Version trialVersion = currentLicenseMetaData.getMostRecentTrialVersion();
LicensesMetaData newLicenseMetadata = new LicensesMetaData(selfGeneratedLicense, trialVersion); mdBuilder.putCustom(LicensesMetaData.TYPE, newLicenseMetadata);
logger.info("Updating existing license to the new version.\n\nOld license:\n {}\n\n New license:\n {}", license, newLicenseMetadata.getLicense());
return ClusterState.builder(currentState).metaData(mdBuilder).build();}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error((Supplier<?>) () -> new ParameterizedMessage("unexpected failure during 
\[{}\]", source), e);
}

private ClusterState extendBasic(ClusterState currentState, LicensesMetaData currentLicenseMetadata) {
    License license = currentLicenseMetadata.getLicense();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    LicensesMetaData newLicenseMetadata = createBasicLicenseFromExistingLicense(currentLicenseMetadata); mdBuilder.putCustom(LicensesMetaData.TYPE, newLicenseMetadata);
logger.info("Existing basic license has an expiration. Basic licenses no longer expire.\nRegenerating license.\n\nOld license:\n {}\n\n New license:\n {}", license, newLicenseMetadata.getLicense());
return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

private LicensesMetaData createBasicLicenseFromExistingLicense(LicensesMetaData currentLicenseMetadata) {
    License currentLicense = currentLicenseMetadata.getLicense();
    License.Builder specBuilder = License.builder()
        .uid(currentLicense.uid())
        .issuedTo(currentLicense.issuedTo())
        .maxNodes(selfGeneratedLicenseMaxNodes)
        .issueDate(currentLicense.issueDate())
        .type("basic")
        .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentLicense.version());
Version trialVersion = currentLicenseMetadata.getMostRecentTrialVersion();
return new LicensesMetaData(selfGeneratedLicense, trialVersion);
}

private ClusterState updateWithLicense(ClusterState currentState, String type) {
    long issueDate = clock.millis();
MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
long expiryDate;
if ("basic".equals(type)) {
    expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
} else {
    expiryDate = issueDate +
    LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();
}
License.Builder specBuilder = License.builder()
    .uid(UUID.randomUUID().toString())
    .issuedTo(clusterService.getClusterName().value())
    .maxNodes(selfGeneratedLicenseMaxNodes)
    .issueDate(issueDate)
    .type(type)
    .expiryDate(expiryDate);
License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
LicensesMetaData licensesMetaData;
if ("trial".equals(type)) {
    licensesMetaData = new LicensesMetaData(selfGeneratedLicense, Version.CURRENT);
} else {
    licensesMetaData = new LicensesMetaData(selfGeneratedLicense, null);
}
mdBuilder.putCustom(LicensesMetaData.TYPE, licensesMetaData);
return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

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Of the two options provided, Elastic chooses to license RapidXml under the
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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.salaranta@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.

## Licensing

Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).
## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

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```

```java
package org.elasticsearch.xpack.security.authz.permission;

import org.elasticsearch.action.get.GetAction;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.permission.Role;
import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import java.util.function.Predicate;
import static org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege.MONITOR;
import static org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege.READ;
import static org.hamcrest.Matchers.is;
import static org.hamcrest.Matchers.notNullValue;

public class PermissionTests extends ESTestCase {
    private Role permission;

    @Before
    public void init() {
        Role.Builder builder = Role.builder("test");
        builder.add(MONITOR, "test_*", "/foo.*/");
        builder.add(READ, "baz_*foo", "/fool.*bar/");
        builder.add(MONITOR, "/bar.*/");
        permission = builder.build();
    }

    public void testAllowedIndicesMatcherAction() throws Exception {
        testAllowedIndicesMatcher(permission.indices().allowedIndicesMatcher(GetAction.NAME));
    }

    public void testAllowedIndicesMatcherActionCaching() throws Exception {
        Predicate<String> matcher1 = permission.indices().allowedIndicesMatcher(GetAction.NAME);
        Predicate<String> matcher2 = permission.indices().allowedIndicesMatcher(GetAction.NAME);
        assertThat(matcher1, is(matcher2));
    }

    public void testBuildEmptyRole() {
```

```
Role.Builder permission = Role.builder(new String[] { "some_role" });
Role role = permission.build();
assertThat(role, notNullValue());
assertThat(role.cluster(), notNullValue());
assertThat(role.indices(), notNullValue());
assertThat(role.runAs(), notNullValue());
}

public void testRunAs() {
    Role permission = Role.builder("some_role")
        .runAs(new Privilege("name", "user1", "run*"))
        .build();
    assertThat(permission.runAs().check("user1"), is(true));
    assertThat(permission.runAs().check("user"), is(false));
    assertThat(permission.runAs().check("run" + randomAlphaOfLengthBetween(1, 10)), is(true));
}

// "baz_*foo", "/fool.*bar/"
private void testAllowedIndicesMatcher(Predicate<String> indicesMatcher) {
    assertThat(indicesMatcher.test("foobar"), is(false));
    assertThat(indicesMatcher.test("fool"), is(false));
    assertThat(indicesMatcher.test("fool2bar"), is(true));
    assertThat(indicesMatcher.test("baz_foo"), is(true));
    assertThat(indicesMatcher.test("barbapapa"), is(false));
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import java.util.Map;
import static org.elasticsearch.rest.RestRequest.Method.POST;

import java.io.IOException;
import java.util.Map;
import static org.elasticsearch.rest.RestRequest.Method.POST;
public class RestPostStartTrialLicense extends XPackRestHandler {

    RestPostStartTrialLicense(Settings settings, RestController controller) {
        super(settings);
        controller.registerHandler(POST, URI_BASE + "/license/start_trial", this);
    }

    @Override
    protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
        PostStartTrialRequest startTrialRequest = new PostStartTrialRequest();
        startTrialRequest.setType(request.param("type", "trial"));
        startTrialRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
        return channel -> client.licensing().postStartTrial(startTrialRequest,
            new RestBuilderListener<PostStartTrialResponse>(channel) {
                @Override
                public RestResponse buildResponse(PostStartTrialResponse response, XContentBuilder builder) throws Exception {
                    PostStartTrialResponse.Status status = response.getStatus();
                    builder.startObject();
                    builder.field("acknowledged", startTrialRequest.isAcknowledged());
                    if (status.isTrialStarted()) {
                        builder.field("trial_was_started", true);
                        builder.field("type", startTrialRequest.getType());
                    } else {
                        builder.field("trial_was_started", false);
                        builder.field("error_message", status.getErrorMessage());
                    }
                    Map<String, String[]> acknowledgementMessages = response.getAcknowledgementMessages();
                    if (acknowledgementMessages.isEmpty() == false) {
                        builder.startObject("acknowledge");
                        builder.field("message", response.getAcknowledgementMessage());
                        for (Map.Entry<String, String[]> entry : acknowledgementMessages.entrySet()) {
                            builder.startArray(entry.getKey());
                            for (String message : entry.getValue()) {
                                builder.value(message);
                            }
                            builder.endArray();
                        }
                        builder.endObject();
                    }
                    builder.endObject();
                }
                return new BytesRestResponse(status.getRestStatus(), builder);
            });
    }
}

Open Source Used In MSX Platform Services 3.8.01828
```java
@Override
public String getName() {
    return "xpack_upgrade_to_trial_action";
}
}
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Tika-parsers component uses CDDL/LGPL dual-licensed dependency: jhighlight
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 */
package org.elasticsearch.license;

import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.protocol.xpack.license.GetLicenseRequest;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;
import java.util.HashMap;
import java.util.Map;
import static org.elasticsearch.rest.RestRequest.Method.GET;
import static org.elasticsearch.rest.RestStatus.NOT_FOUND;
import static org.elasticsearch.rest.RestStatus.OK;

public class RestGetLicenseAction extends XPackRestHandler {

    @Inject
    public RestGetLicenseAction(Settings settings, RestController controller) {
        super(settings);
        // @deprecated Remove deprecations in 6.0
controller.registerWithDeprecatedHandler(GET, URI_BASE + "/license", this,
    GET, "/_license", deprecationLogger);

    // Remove _licenses support entirely in 6.0
    controller.registerAsDeprecatedHandler(GET, "/_licenses", this,
        "[GET /_licenses] is deprecated! Use " +
        "[GET /_xpack/license] instead.",
        deprecationLogger);
    
    @Override
    public String getName() {
        return "xpack_get_license_action";
    }

    /**
     * There will be only one license displayed per feature, the selected license will have the latest expiry_date
     * out of all other licenses for the feature.
     * <p>
     * The licenses are sorted by latest issue_date
     */
    @Override
    public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws
        IOException {
        final Map<String, String> overrideParams = new HashMap<>(2);
        overrideParams.put(LicenseREST_VIEW_MODE, "true");
        overrideParams.put(License.LICENSE_VERSION_MODE, License.VERSION_CURRENT);
        final ToXContent.Params params = new ToXContent.DelegatingMapParams(overrideParams, request);
        GetLicenseRequest getLicenseRequest = new GetLicenseRequest();
        getLicenseRequest.local(request.paramAsBoolean("local", getLicenseRequest.local()));
        return channel -> client.es().admin().cluster().execute(GetLicenseAction.INSTANCE, getLicenseRequest,
            new RestBuilderListener<GetLicenseResponse>(channel) {
                @Override
                public RestResponse buildResponse(GetLicenseResponse response, XContentBuilder builder) throws
                    Exception {
                    // Default to pretty printing, but allow ?pretty=false to disable
                    if (!request.hasParam("pretty")) {
                        builder.prettyPrint().lfAtEnd();
                    }
                    boolean hasLicense = response.license() != null;
                    builder.startObject();
                    if (hasLicense) {
                        builder.startObject("license");
                        response.license().toInnerXContent(builder, params);
                        builder.endObject();
                    }
                    builder.endObject();
                    return new BytesRestResponse(hasLicense ? OK : NOT_FOUND, builder);
            } });
## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

### SnakeYAML features ###

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

### Info ###

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

### Contribute ###

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
* You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).

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*/
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.AbstractNamedDiffable;
import org.elasticsearch.cluster.MergableCustomMetaData;
import org.elasticsearch.cluster.NamedDiff;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.io.IOException;
import java.util.EnumSet;

/**
 * Contains metadata about registered licenses
 */
public class LicensesMetaData extends AbstractNamedDiffable<MetaData.Custom> implements XPackPlugin.XPackMetaDataCustom,
     MergableCustomMetaData<LicensesMetaData> {

    public static final String TYPE = "licenses";

    /**
     * When license is explicitly removed by a user, LICENSE_TOMBSTONE
     * is used as a placeholder in the license metadata. This enables
us to distinguish between the scenario when a cluster never had a license (null) and when a license was removed explicitly (LICENSE_TOMBSTONE).

We rely on this to decide whether to generate a unsigned trial license or not. We should only generate a license if no license ever existed in the cluster state.

```java
public static final License LICENSE_TOMBSTONE = License.builder()
    .type("trial")
    .issuer("elasticsearch")
    .uid("TOMBSTONE")
    .issuedTo("")
    .maxNodes(0)
    .issueDate(0)
    .expiryDate(0)
    .build();

private License license;

// This field describes the version of x-pack for which this cluster has exercised a trial. If the field is null, then no trial has been exercised. We keep the version to leave open the possibility that we may eventually allow a cluster to exercise a trial every time they upgrade to a new major version.
private Version trialVersion;

LicensesMetaData(License license, Version trialVersion) {
    this.license = license;
    this.trialVersion = trialVersion;
}

public License getLicense() {
    return license;
}

boolean isEligibleForTrial() {
    if (trialVersion == null) {
        return true;
    }
    return Version.CURRENT.major > trialVersion.major;
}

Version getMostRecentTrialVersion() {
    return trialVersion;
}

@Override
public String toString() {
    return "LicensesMetaData{" +
```
public static LicensesMetaData fromXContent(XContentParser parser) throws IOException {

    License license = LICENSE_TOMBSTONE;
    Version trialLicense = null;
    XContentParser.Token token;
    while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
        if (token == XContentParser.Token.FIELD_NAME) {
            String fieldName = parser.currentName();
            if (fieldName != null) {
                if (fieldName.equals(Fields.LICENSE)) {
                    token = parser.nextToken();
                    license = parser.parse(License.class);
                }
                if (fieldName.equals(Fields_TRIAL_LICENSE)) {
                    token = parser.nextToken();
                    trialLicense = parser.parse(Version.class);
                }
            }
        }
    }

    return new LicensesMetaData(license, trialLicense);
}
if (token == XContentParser.Token.START_OBJECT) {
    license = License.fromXContent(parser);
} else if (token == XContentParser.Token.VALUE_NULL) {
    license = LICENSE_TOMBSTONE;
}
else if (fieldName.equals(Fields.TRIAL_LICENSE)) {
    parser.nextToken();
    trialLicense = Version.fromString(parser.text());
}
return new LicensesMetaData(license, trialLicense);
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    if (license == LICENSE_TOMBSTONE) {
        builder.nullField(Fields.LICENSE);
    } else {
        builder.startObject(Fields.LICENSE);
        license.toInnerXContent(builder, params);
        builder.endObject();
    }
    if (trialVersion != null) {
        builder.field(Fields.TRIAL_LICENSE, trialVersion.toString());
    }
    return builder;
}

@Override
public void writeTo(StreamOutput streamOutput) throws IOException {
    if (license == LICENSE_TOMBSTONE) {
        streamOutput.writeBoolean(false); // no license
    } else {
        streamOutput.writeBoolean(true); // has a license
        license.writeTo(streamOutput);
    }
    if (streamOutput.getVersion().onOrAfter(Version.V_6_1_0)) {
        if (trialVersion == null) {
            streamOutput.writeBoolean(false);
        } else {
            streamOutput.writeBoolean(true);
            Version.writeVersion(trialVersion, streamOutput);
        }
    }
    }
}
public LicensesMetaData(StreamInput streamInput) throws IOException {
    if (streamInput.readBoolean()) {
        license = License.readLicense(streamInput);
    } else {
        license = LICENSE_TOMBSTONE;
    }
    if (streamInput.getVersion().onOrAfter(Version.V_6_1_0)) {
        boolean hasExercisedTrial = streamInput.readBoolean();
        if (hasExercisedTrial) {
            this.trialVersion = Version.readVersion(streamInput);
        }
    }
}

public static NamedDiff<MetaData.Custom> readDiffFrom(StreamInput streamInput) throws IOException {
    return readDiffFrom(MetaData.Custom.class, TYPE, streamInput);
}

public static License extractLicense(LicensesMetaData licensesMetaData) {
    if (licensesMetaData != null) {
        License license = licensesMetaData.getLicense();
        if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
            return null;
        } else {
            return license;
        }
    }
    return null;
}

@Override
public LicensesMetaData merge(LicensesMetaData other) {
    if (other.license == null) {
        return this;
    } else if (license == null
        || OperationMode.compare(other.license.operationMode(), license.operationMode()) > 0) {
        return other;
    }
    return this;
}

private static final class Fields {
    private static final String LICENSE = "license";
    private static final String TRIAL_LICENSE = "trial_license";
}

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package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.RestStatus;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import static org.elasticsearch.license.PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;

class PostStartBasicResponse extends AcknowledgedResponse {

    private Map<String, String[]> acknowledgeMessages;
    private String acknowledgeMessage;

    enum Status {
        GENERATED_BASIC(true, null, RestStatus.OK),
        ALREADY_USING_BASIC(false, "Operation failed: Current license is basic.", RestStatus.FORBIDDEN),
        NEED_ACKNOWLEDGEMENT(false, "Operation failed: Needs acknowledgement.", RestStatus.OK);

        private final boolean isBasicStarted;
        private final String errorMessage;
        private final RestStatus restStatus;

        Status(boolean isBasicStarted, String errorMessage, RestStatus restStatus) {
            this.isBasicStarted = isBasicStarted;
            this.errorMessage = errorMessage;
            this.restStatus = restStatus;
        }

        boolean isBasicStarted() {
            return isBasicStarted;
        }

        String getErrorMessage() {
            return errorMessage;
        }
    }

    private final boolean isBasicStarted;
    private final String errorMessage;
    private final RestStatus restStatus;

    Status(boolean isBasicStarted, String errorMessage, RestStatus restStatus) {
        this.isBasicStarted = isBasicStarted;
        this.errorMessage = errorMessage;
        this.restStatus = restStatus;
    }

    boolean isBasicStarted() {
        return isBasicStarted;
    }

    String getErrorMessage() {
        return errorMessage;
    }
}
return errorMessage;
}

RestStatus getRestStatus() {
    return restStatus;
}
}

private Status status;

PostStartBasicResponse() {
}

PostStartBasicResponse(Status status) {
    this(status, Collections.emptyMap(), null);
}

PostStartBasicResponse(Status status, Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    super(status != NEED_ACKNOWLEDGEMENT);
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    status = in.readEnum(Status.class);
    acknowledgeMessage = in.readOptionalString();
    int size = in.readVInt();
    Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
    for (int i = 0; i < size; i++) {
        String feature = in.readString();
        int nMessages = in.readVInt();
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = in.readString();
        }
        acknowledgeMessages.put(feature, messages);
    }
    this.acknowledgeMessages = acknowledgeMessages;
}
@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeEnum(status);
    out.writeOptionalString(acknowledgeMessage);
    out.writeVInt(acknowledgeMessages.size());
    for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
        out.writeString(entry.getKey());
        out.writeVInt(entry.getValue().length);
        for (String message : entry.getValue()) {
            out.writeString(message);
        }
    }
}

@Override
protected void addCustomFields(XContentBuilder builder, Params params) throws IOException {
    if (status.isBasicStarted()) {
        builder.field("basic_was_started", true);
    } else {
        builder.field("basic_was_started", false);
        builder.field("error_message", status.getErrorMessage());
    }
    if (acknowledgeMessages.isEmpty() == false) {
        builder.startObject("acknowledge");
        builder.field("message", acknowledgeMessage);
        builder.field("message", acknowledgeMessage);
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            builder.startArray(entry.getKey());
            for (String message : entry.getValue()) {
                builder.value(message);
            }
            builder.endArray();
        }
        builder.endObject();
    }
}

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import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.protocol.xpack.license.GetLicenseRequest;

public class GetLicenseAction extends Action<GetLicenseRequest, GetLicenseResponse,
GetLicenseRequestBuilder> {

    public static final GetLicenseAction INSTANCE = new GetLicenseAction();
    public static final String NAME = "cluster:monitor/xpack/license/get";

    private GetLicenseAction() {
        super(NAME);
    }

    @Override
    public GetLicenseResponse newResponse() {
        return new GetLicenseResponse();
    }

    @Override
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    }

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import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPostStartBasicAction extends TransportMasterNodeAction<PostStartBasicRequest,
    PostStartBasicResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportPostStartBasicAction(Settings settings, TransportService transportService, ClusterService
        clusterService,
        LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, PostStartBasicAction.NAME, transportService, clusterService, threadPool, actionFilters,
            indexNameExpressionResolver, PostStartBasicRequest::new);
        this.licenseService = licenseService;
    }
}
@Override
protected String executor() {  
    return ThreadPool.Names.SAME;
}

@Override
protected PostStartBasicResponse newResponse() {  
    return new PostStartBasicResponse();
}

@Override
protected void masterOperation(PostStartBasicRequest request, ClusterState state,  
        ActionListener<PostStartBasicResponse> listener) throws Exception {  
    licenseService.startBasicLicense(request, listener);
}

@Override
protected ClusterBlockException checkBlock(PostStartBasicRequest request, ClusterState state) {  
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}

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package org.elasticsearch.xpack.ccr;

import org.elasticsearch.client.Request;
import org.elasticsearch.client.ResponseException;
import java.util.Locale;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.hasToString;

public class CcrMultiClusterLicenseIT extends ESCCRRestTestCase {

    public void testFollow() {
        if ("follow".equals(targetCluster)) {
            final Request request = new Request("PUT", "/follower/_ccr/follow");
            request.setJsonEntity("{"remote_cluster": "leader_cluster", 
            "leader_index": "leader" }");
            assertNonCompliantLicense(request);
        }
    }

    public void testAutoFollow() throws Exception {
        if ("follow".equals(targetCluster)) {
            final Request request = new Request("PUT", "/_ccr/auto_follow/test_pattern");
            request.setJsonEntity("{"leader_index_patterns": ["*"], 
            "remote_cluster": "leader_cluster" }");
            final ResponseException e = expectThrows(ResponseException.class, () ->
            client().performRequest(request));
            final String expected = String.format(Locale.ROOT, 
"can not fetch remote cluster state as the remote cluster [_%s] is not licensed for [ccr]; " +
"the license mode [BASIC] on cluster [%s] does not enable [ccr], 
"leader_cluster", 
"leader_cluster",
private static void assertNonCompliantLicense(final Request request) {
    final ResponseException e = expectThrows(ResponseException.class, () -> client().performRequest(request));
    final String expected = String.format(Locale.ROOT,
        "can not fetch remote index \[%s\] metadata as the remote cluster \[%s\] is not licensed for \[ccr\]; \n        " +
        "the license mode \[BASIC\] on cluster \[%s\] does not enable \[ccr\]",
        "leader_cluster:leader",
        "leader_cluster",
        "leader_cluster");
    assertThat(e, hasToString(containsString(expected)));
}

package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class PostStartTrialRequest extends MasterNodeRequest<PostStartTrialRequest> {
    private boolean acknowledge = false;
    private String type;

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    public PostStartTrialRequest setType(String type) {
        this.type = type;
        return this;
    }
}
public String getType() {
    return type;
}

public PostStartTrialRequest acknowledge(boolean acknowledge) {
    this.acknowledge = acknowledge;
    return this;
}

public boolean isAcknowledged() {
    return acknowledge;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    if (in.getVersion().onOrAfter(Version.V_6_3_0)) {
        type = in.readString();
        acknowledge = in.readBoolean();
    } else {
        type = "trial";
        acknowledge = true;
    }
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    Version version = Version.V_6_3_0;
    if (out.getVersion().onOrAfter(version)) {
        super.writeTo(out);
        out.writeString(type);
        out.writeBoolean(acknowledge);
    } else {
        if ("trial".equals(type) == false) {
            throw new IllegalArgumentException("All nodes in cluster must be version [" + version + "] or newer to start trial with a different type than 'trial'. Attempting to write to " + "a node with version [" + out.getVersion() + "] with trial type [" + type + "].");
        } else if (acknowledge == false) {
            throw new IllegalArgumentException("Request must be acknowledged to send to a node with a version " + "prior to [" + version + "]. Attempting to send request to node with version [" + out.getVersion() + "] " + "without acknowledgement.");
        } else {
            super.writeTo(out);
        }
    }
}
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import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;
import org.elasticsearch.action.support.master.AcknowledgedResponse;

public class DeleteLicenseAction extends Action<DeleteLicenseRequest, AcknowledgedResponse,
DeleteLicenseRequestBuilder> {

    public static final DeleteLicenseAction INSTANCE = new DeleteLicenseAction();
    public static final String NAME = "cluster:admin/xpack/license/delete";

    private DeleteLicenseAction() {
        super(NAME);
    }

    @Override
    public AcknowledgedResponse newResponse() {
        return new AcknowledgedResponse();
    }

    @Override
    public DeleteLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new DeleteLicenseRequestBuilder(client, this);
    }
}

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
\code{src/lib/gssapi}, including the following files:

\begin{verbatim}
lib/gssapi/generic/gssapi_err_generic
lib/gssapi/mechglue/g_accept_sec_context
lib/gssapi/mechglue/g_acquire_cred
lib/gssapi/mechglue/g_canon_name
lib/gssapi/mechglue/g_compare_name
lib/gssapi/mechglue/g_context_time
lib/gssapi/mechglue/g_delete_sec_context
lib/gssapi/mechglue/g_dsp_name
lib/gssapi/mechglue/g_dsp_status
lib/gssapi/mechglue/g_dup_name
\end{verbatim}
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.iprop`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`

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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_credential.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_credential.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_credential.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_credential.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:

.. 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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lib/gssapi/mechglue/g_initialize.c
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lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.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
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import os
import sys
import re

def warn(fname, ln, msg):
print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
text_seen = False
is_license = False
for line in comment:
    if not is_license and indicates_license(line):
        is_license = True
    if text_seen:
        warn(fname, ln, 'License begins after first line of comment')
    elif code_seen:
        warn(fname, ln, 'License after code')
    elif nonlicense_seen:
        warn(fname, ln, 'License after non-license comments')
    break
# DB2 licenses start with '/*- and we don't want to change them.
if line != '' and line != '-':
text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
m = re.match(r'/\* ([^\*]*)(([^\*/][^\*])\*\*([^\*])? \*\*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'\s+\*\*?\*\*\*f\', '', 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:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

1.241 spring-boot-starter-validation 2.2.2

1.242 spring-oxm 5.2.2

1.243 brave-instrumentation-spring-web 5.9.0

1.244 commons-lang 3.7
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1.259 aspectj-tools 1.9.2

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1.262 joda-time 2.10.5

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1.267 randomfill 1.0.4

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1.268 pcollections 3.1.0

1.269 ui-router-core 6.0.3

1.269.1 Available under license :
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1.270 spring-boot-starter-logging 2.2.2

1.271 javax-websocket-client-impl

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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

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

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1.273 kryo-parent 4.0.2

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1.285 shajs 2.4.11

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1.286 browserify-rsa 4.0.1

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1.287 springfox-spi 2.9.2

1.288 spring-boot 2.2.2

1.289 hystrix-metrics-event-stream 1.5.18

1.290 libx11 1.6.4-3+deb9u1

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**1.307 x-is-array 0.1.0**

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File: src/main/java/org/apache/commons/ssl/ASN1Util.java

Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/KeyStoreBuilder.java

Changes: Fixing tryJKS to correctly return null for a potential PKCS12 file
with no key entry. This happens with cacerts in Java 9+ because of
the changes in JEP 229, because both JKS and PKCS12 files can now
be loaded using either the JKS or PKCS12 keystore type.
Replacing direct System.out calls with Logger calls.
Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/PKCS8Key.java

Changes: Removing Bouncy Castle classes and linking to the JAR instead.
File: src/main/java/org/apache/commons/ssl/*

Changes: Replacing direct printStackTrace calls with Logger calls, remove logging "abstraction".

Files: src/main/java/org/apache/commons/ssl/org/bouncycastle/*

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Apache Commons Logging 1.2
Byte Buddy 1.8.8
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The PKCS12 key derivation function was also developed by Bouncy Castle (Look for the "pkcs12()" method inside PKCS8.java).

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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**Eclipse**

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

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

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

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**Oracle**

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

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

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**Oracle OpenJDK**

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

* java.sun.security.ssl

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

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

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

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Apache

The following artifacts are ASL2 licensed.

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

-----

MortBay

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

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

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

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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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Full name: James Strachan
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5hdry6ZjXRcUihQEyNz2F/T4=
=I4Co
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iD8DBQFE85cgao9Frj/CIrIRAamuJAKCFgi4W0UOH8iUn+SV6PBHRF3BnLgCcDqqCZokttk0bTHfwaa5TtxQbScw=
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=HmqH
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Mailing Address: 4676 Admiralty Way, Suite 520
           Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
E-Mail: gordon.king@simulalabs.com
Fax: +1 800 822 0471

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<th>Date added</th>
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<tbody>
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<td>12 September 2006</td>
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Full name: Julian Anthony Fox Gosnell
E-Mail: jules@coredevelopers.net
Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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1.346 rx-netty-servo 0.4.9

1.347 websocket-servlet 9.4.24.v20191120

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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

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org.ow2.asm:asm-commons
org.ow2.asm:asm
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- org.apache.taglibs:taglibs-standard-impl

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

- https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
- org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.348 kryo-shaded 4.0.2

1.349 to-array 0.1.4
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1.350 j2objc-annotations 1.1

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

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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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<code>Replaceable</code> 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 <code>Replaceable</code> 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".

<code>Replaceable</code> 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.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>. For a subclass to support metadata, typical behavior of <code>replace()</code> 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.
<p>If this is not the behavior, the subclass should document any differences.</p>

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@author Alan Liu
@stable ICU 2.0

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

<p><em>Note:</em> This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.</p>

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/**
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 */
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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package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a [ @code java.io.FilePermission] object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * [ @code java.lang.RuntimePermission],
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
An important method that must be implemented by each subclass is the `implies` method to compare Permissions. Basically, "permission p1 implies permission p2" means that if one is granted permission p1, one is naturally granted permission p2. Thus, this is not an equality test, but rather more of a subset test.

Permission objects are similar to String objects in that they are immutable once they have been created. Subclasses should not provide methods that can change the state of a permission once it has been created.

@see Permissions
@see PermissionCollection

@since 1.2

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     *
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * Implements the guard interface for a permission. The
     * `{@code SecurityManager.checkPermission}` method is called,
     * passing this permission object as the permission to check.
     * Returns silently if access is granted. Otherwise, throws
     * a SecurityException.
     *
     * @param object the object being guarded (currently ignored).
     */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

public abstract boolean implies(Permission permission);

public abstract boolean equals(Object obj);

/*
* @param permission the permission to check against.
* @return true if the specified permission is implied by this object,
* false if not.
*/
* The required \{@code hashCode\} behavior for Permission Objects is
* the following:
* \begin{itemize}
* \item Whenever it is invoked on the same Permission object more than
* once during an execution of a Java application, the
* \{@code hashCode\} method
* must consistently return the same integer. This integer need not
* remain consistent from one execution of an application to another
* execution of the same application.
* \item If two Permission objects are equal according to the
* \{@code equals\} method, then calling the \{@code hashCode\} method on each of the
* two Permission objects must produce the same integer result.
* \end{itemize}
* \@return a hash code value for this object.
* */

public abstract int hashCode();

/***
* Returns the name of this Permission.
* For example, in the case of a \{@code java.io.FilePermission\},
* the name will be a pathname.
* \@return the name of this Permission.
* */

public final String getName() { return name; }

/***
* Returns the actions as a String. This is abstract
* so subclasses can defer creating a String representation until
* one is needed. Subclasses should always return actions in what they
* consider to be their
* canonical form. For example, two FilePermission objects created via
* the following:
* \begin{pre}
* perm1 = new FilePermission(p1,"read,write");
* perm2 = new FilePermission(p2,"write,read");
* \end{pre}
* both return
* "read,write" when the [@code getActions] method is invoked.
*
* @return the actions of this Permission.
*
*/

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the [@code PermissionCollection.implies] method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: '("ClassName" "name" "actions")', or
 * '("ClassName" "name")' if actions list is null or empty.
 *
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " \\
                " + actions + ")";
    }
}

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Mesa 3-D graphics library

Version: 5.0

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<settings default="langtools">
    <LanguageOptions name="JAVA">
        <option name="fileLocation" value="1" />
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package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 * @since 1.1
 *
 * @deprecated This class is deprecated and subject to removal in a future
 * version of Java SE. It has been replaced by [@code java.security.Policy]
 * and related classes since 1.2.
 */
@Deprecated(since="9", forRemoval=true)
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     */

* @param another the Permission object to compare with.
*  
* @return true if the Permission objects are equal, false otherwise
*/
public boolean equals(Object another);

/**
 * Prints a string representation of this permission.
 *  
* @return the string representation of the permission.
*/
public String toString();

}  // End of class Permission

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import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
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            "/*
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             */
    ;

    private static final String ORACLE_AFTER2012 =
            "/*
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    private static final String UNICODE =
            "/*
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    private static final String UNICODE =
            "/*
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             */
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"
private static String OPENJDK2012 =
" */\n" +
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" "\n" +
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 *
 */
";

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    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),

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Locale.US).get(Calendar.YEAR);

// no instantiation
private CopyrightHeaders() {
}
}

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 * or visit www.oracle.com if you need additional information or have any
 * questions.
 */

/**
 * @test
 * @bug 4886069 8023045
 * @summary Confirm that printer recognizes the Legal selection either by
 *          prompting the user to put Legal paper or automatically selecting
 *          the tray containing Legal Paper. The printout image should not
 *          be shifted up by about 3".
 * @run main/manual PrintTest
 *
 */
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.border.*;
import java.awt.print.*;
import javax.print.*;
import javax.print.attribute.*;

import java.awt.print.*;
import javax.print.*;
import javax.print.attribute.*;
import java.print.attribute.standard.*;
import java.io.*;

public class PrintTest extends JFrame {
    private JPanel contentPane;
    private JMenuBar jMenuBar1 = new JMenuBar();
    private JMenu jMenuFile = new JMenu();
    private JMenuItem jMenuItem1 = new JMenuItem();
    private BorderLayout borderLayout1 = new BorderLayout();
    private JPanel jPanel1 = new JPanel();
    private BorderLayout borderLayout2 = new BorderLayout();
    private JScrollPane jScrollPane1 = new JScrollPane();
    private JTextArea jTextArea1 = new JTextArea();
    private Border border1;

    //Construct the frame
    public PrintTest() {
        enableEvents(AWTEvent.WINDOW_EVENT_MASK);
        try {
            jbInit();
        }
    }
    catch(Exception e) {
        e.printStackTrace();
    }
}

private void jbInit() throws Exception 
{
    contentPane = (JPanel) this.getContentPane();
    border1 = BorderFactory.createLineBorder(Color.black,1);
    contentPane.setLayout(borderLayout1);
    this.setTitle("Print Test");
    jMenuFile.setText("File");
    jMenuItem1.setText("Print");
    jMenuItem1.setAccelerator(javax.swing.KeyStroke.getKeyStroke(80, java.awt.event.KeyEvent.CTRL_MASK,
false));
    jMenuItem1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(ActionEvent e) {
            jMenuItem1_actionPerformed(e);
        }
    });
    jPanel1.setLayout(borderLayout2);
    jTextArea1.setBorder(border1);
    jTextArea1.setText("1. This is a printer test designed to illustrate a bug in the java printing API.
2. This is a printer test designed to illustrate a bug in the java printing API.
3. This is a printer test designed to illustrate a bug in the java printing API.
4. This is a printer test designed to illustrate a bug in the java printing API.
5. This is a printer test designed to illustrate a bug in the java printing API.");
    jMenuFile.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(ActionEvent e) {
        }
    });
    jMenuBar1.add(jMenuFile);
    jMenuFile.add(jMenuItem1);
    jMenuItem1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(ActionEvent e) {
            jMenuItem1_actionPerformed(e);
        }
    });
    jPanel1.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    jTextArea1.setLineWrap(true);
    jTextArea1.setWrapStyleWord(true);
    jScrollPane1.setViewportView(jTextArea1);
    jMenuFile.add(jMenuItem1);
    jMenuItem1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(ActionEvent e) {
            jMenuItem1_actionPerformed(e);
        }
    });
    jPanel1.add(jScrollPane1, BorderLayout.CENTER);
}

public void jMenuItem1_actionPerformed(ActionEvent e) {
    jTextArea1.setText("}1. This is a printer test designed to illustrate a bug in the java printing API.
2. This is a printer test designed to illustrate a bug in the java printing API.
3. This is a printer test designed to illustrate a bug in the java printing API.
4. This is a printer test designed to illustrate a bug in the java printing API.
5. This is a printer test designed to illustrate a bug in the java printing API.");
}

private void jbInit() throws Exception {
    jbInit();
}

private void jMenuItem1_actionPerformed(ActionEvent e) {
    jTextArea1.setText("1. This is a printer test designed to illustrate a bug in the java printing API.
2. This is a printer test designed to illustrate a bug in the java printing API.
3. This is a printer test designed to illustrate a bug in the java printing API.
4. This is a printer test designed to illustrate a bug in the java printing API.
5. This is a printer test designed to illustrate a bug in the java printing API.");
}

private void jMenuItem1_actionPerformed(ActionEvent e) {
    jTextArea1.setText("1. This is a printer test designed to illustrate a bug in the java printing API.
2. This is a printer test designed to illustrate a bug in the java printing API.
3. This is a printer test designed to illustrate a bug in the java printing API.
4. This is a printer test designed to illustrate a bug in the java printing API.
5. This is a printer test designed to illustrate a bug in the java printing API.");
}

private void jMenuItem1_actionPerformed(ActionEvent e) {
    jTextArea1.setText("1. This is a printer test designed to illustrate a bug in the java printing API.
2. This is a printer test designed to illustrate a bug in the java printing API.
3. This is a printer test designed to illustrate a bug in the java printing API.
4. This is a printer test designed to illustrate a bug in the java printing API.
5. This is a printer test designed to illustrate a bug in the java printing API.");
}

private void jMenuItem1_actionPerformed(ActionEvent e) {
    jTextArea1.setText("1. This is a printer test designed to illustrate a bug in the java printing API.
2. This is a printer test designed to illustrate a bug in the java printing API.
3. This is a printer test designed to illustrate a bug in the java printing API.
4. This is a printer test designed to illustrate a bug in the java printing API.
5. This is a printer test designed to illustrate a bug in the java printing API.");
}
"6. This is a printer test designed to illustrate a bug in the java printing API.
7. This is a printer test designed to illustrate a bug in the java printing API.
8. This is a printer test designed to illustrate a bug in the java printing API.
9. This is a printer test designed to illustrate a bug in the java printing API.
10. This is a printer test designed to illustrate a bug in the java printing API.
11. This is a printer test designed to illustrate a bug in the java printing API.
12. This is a printer test designed to illustrate a bug in the java printing API.
13. This is a printer test designed to illustrate a bug in the java printing API.
14. This is a printer test designed to illustrate a bug in the java printing API.
15. This is a printer test designed to illustrate a bug in the java printing API.
16. This is a printer test designed to illustrate a bug in the java printing API.
17. This is a printer test designed to illustrate a bug in the java printing API.
18. This is a printer test designed to illustrate a bug in the java printing API.
19. This is a printer test designed to illustrate a bug in the java printing API.
20. This is a printer test designed to illustrate a bug in the java printing API.
21. This is a printer test designed to illustrate a bug in the java printing API.
22. This is a printer test designed to illustrate a bug in the java printing API.
23. This is a printer test designed to illustrate a bug in the java printing API.
24. This is a printer test designed to illustrate a bug in the java printing API.
25. This is a printer test designed to illustrate a bug in the java printing API.
26. This is a printer test designed to illustrate a bug in the java printing API.
27. This is a printer test designed to illustrate a bug in the java printing API.");

void jMenuItem1_actionPerformed(ActionEvent e) {
    PrintUtils.printComponent(jTextArea1);
}

public static class PrintUtils implements Printable {
    private JComponent componentToBePrinted;
}
protected double scale = 1.0;
PrintRequestAttributeSet pras = new HashPrintRequestAttributeSet();

public static void printComponent(JComponent c) {
    new PrintUtils(c).print();
}

public PrintUtils(JComponent componentToBePrinted) {
    this.componentToBePrinted = componentToBePrinted;
}

void print() {
    DocFlavor flavor = DocFlavor.SERVICE_FORMATTED.PRINTABLE;
    pras.add(MediaSizeName.NA_LEGAL);

    PrintService printService[] = PrintServiceLookup.lookupPrintServices(flavor, pras);
    PrintService defaultService = PrintServiceLookup.lookupDefaultPrintService();
    if ((defaultService == null) || (printService.length == 0)) {
        System.out.println("No default print service found. Test aborted.");
        return;
    }

    PrintService service = ServiceUI.printDialog(null, 100, 100, printService, defaultService, flavor, pras);
    if (service != null) {
        DocPrintJob job = service.createPrintJob();
        DocAttributeSet das = new HashDocAttributeSet();

        Doc doc = new SimpleDoc(this, flavor, das);

        try {
            job.print(doc, pras);
        } catch (PrintException pe) {
            pe.printStackTrace();
        }
    }
}

public int print(Graphics g, PageFormat pageFormat, int pageIndex) {
    double h = componentToBePrinted.getHeight();
    double pageHeight = pageFormat.getImageableHeight();

if (pageIndex * pageHeight > h * scale) {
    return(NO_SUCH_PAGE);
} else {

    Graphics2D g2d = (Graphics2D)g;

    //move past unprintable area
    double xOffset=pageFormat.getImageableX();
    double yOffset=pageFormat.getImageableY();
    g2d.translate(xOffset,yOffset);

    //move to correct page taking into account the scaling
    double newx=0;
    double newy=pageHeight*(-pageIndex);
    g2d.translate(newx / 1.0,newy / 1.0);

    //print

    componentToBePrinted.print(g2d);
    return(PAGE_EXISTS);
}

public static void disableDoubleBuffering(Component c) {
    RepaintManager currentManager = RepaintManager.currentManager(c);
    currentManager.setDoubleBufferingEnabled(false);
}

/** Re-enables double buffering globally. */
public static void enableDoubleBuffering(Component c) {
    RepaintManager currentManager = RepaintManager.currentManager(c);
    currentManager.setDoubleBufferingEnabled(true);
}

public static void main(String[] args) {
    try {
        UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
    }
    catch(Exception e) {
        e.printStackTrace();
    }
    PrintTest frame = new PrintTest();
    frame.pack();
}
Dimension screenSize = Toolkit.getDefaultToolkit().getScreenSize();
Dimension frameSize = frame.getSize();
if (frameSize.height > screenSize.height) {
    frameSize.height = screenSize.height;
}
if (frameSize.width > screenSize.width) {
    frameSize.width = screenSize.width;
}
frame.setLocation((screenSize.width - frameSize.width) / 2, (screenSize.height - frameSize.height) / 2);
frame.setVisible(true);

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# Version

# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings
dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialoginput.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bold.latin-1=DejaVu LGC Sans Mono Bold

dialoginput.bold.japanese-x0208=Sazanami Gothic

dialoginput.bold.korean=Baekmuk Gulim

dialoginput.bold.chinese-big5=AR PL ShanHeiSun Uni

dialoginput.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.italic.latin-1=DejaVu LGC Sans Mono Oblique

dialoginput.italic.japanese-x0208=Sazanami Gothic

dialoginput.italic.korean=Baekmuk Gulim

dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni

dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique

dialoginput.bolditalic.japanese-x0208=Sazanami Gothic

dialoginput.bolditalic.korean=Baekmuk Gulim

dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni

dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf
filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf
filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
filename.Baekmuk_Batang=/usr/share/fonts/korean/TrueType/batang.ttf

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1.364 spring-cloud-vault-config 2.2.0

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wk@gnupg.org
Designed and implemented Libgcrypt.

GNUPG Matthew Skala 1998-08-10
Disclaims changes.
mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPGNatural Resources Canada 1998-08-11
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Assigns changes.
mroth@nessie.de
Wrote cipher/des.c.
Changes and bugfixes all over the place.

GNUPGNiklas Hernaeus 1998-09-18
Disclaims changes.
nh@df.lth.se
Weak key patches.

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Assigns past and future changes.
twoday@freakmail.de
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
simon@josefsson.org

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Assigns past and future changes.
moritz@g10code.com

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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/mpih-mul3.S, mpi/hppa1.1/udiv-qrnnnd.S, mpi/hppa1.1/mpih-mul2.S, mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
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 Müller 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)

Authors with a DCO

Andrei Scherer <andsch@inbox.com>
2014-08-22:BF7CEF794F9.000003F0andsch@inbox.com:

Christian Aistleitner <christian@quelltextlich.at>
2013-02-26:20130226110144.GA12678@quelltextlich.at:

Christian Grothoff <christian@grothoff.org>
2013-03-21:514B5D8A.6040705@grothoff.org:

Dmitry Eremin-Solenikov <dbaryshkov@gmail.com>
2013-07-13:20130713144407.GA27334@fangorn.rup.mentorg.com:

Dmitry Kasatkin <dmitry.kasatkin@intel.com>
2012-12-14:50CAE2DB.80302@intel.com:

Jermie Courrges-Anglas <jca@wxcvbn.org>
2016-05-26:87bn3ssqg0.fsf@ritchie.wxcvbn.org

Jussi Kivilinna <jussi.kivilinna@mbnet.fi>
2012-11-15:20121115172331.150537dzb5i6jmy8@www.dalek.fi:

Jussi Kivilinna <jussi.kivilinna@iki.fi>
2013-05-06:5186720A.4090101@iki.fi:

Markus Teich <markus dot teich at stusta dot mhn dot de>
2014-10-08:20141008180509.GA27770@trolle:

Milan Broz <gmazyland@gmail.com>
2014-01-13:52D44CC6.4050707@gmail.com:

Peter Wu <peter@lekensteyn.nl>
2015-07-22:20150722191325.GA8113@al:

Rafal Carr <funman@videolan.org>
Open Source Used In MSX Platform Services 3.8.03035

2012-04-20:4F91988B.1080502@videolan.org:

Sergey V. <sftp.mtuci@gmail.com>
2013-11-07:2066221.51Yaj7Yq760@darkstar:

Stephan Mueller <smueller@chronox.de>
2014-08-22:2008899.25OeoelVVA@myon.chronox.de:

Tom Mrz <tm@t8m.info>
2012-04-16:1334571250.5056.52.camel@vespa.frost.loc:

Vitezslav Cizek <vcizek@suse.com>
2015-11-05:20151105131424.GA32700@kolac.suse.cz

Werner Koch <wk@gnupg.org> (g10 Code GmbH)
2012-12-05:87obi8u4h2.fsf@vigenere.g10code.de:

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

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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http://rubaxa.github.io/Sortable/

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1.372 jetty-servlets 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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Oracle

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

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

-----

Oracle OpenJDK

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

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

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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
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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

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org.apache.tomcat:tomcat-el-api
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org.eclipse.jetty.toolchain:jetty-schemas

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1.373 he 1.1.7

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1.374 libxdmcp 1.1.2-3

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1.375 swagger-ui 3.22.2

1.376 bean-validation-api 2.0.1

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1.377 spring session core 2.2.0
1.378 lucene-join 7.5.0
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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.416 spring-boot-actuator 2.2.2

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1.429 swagger-annotations 1.5.22
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 */

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * <p>
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 * <p>
 * @return the name of the license
 */
 String name();

/**}
* An optional URL for the license.
*
* @return an optional URL for the license.
*/
String url() default "";
}

1.430 spring-kafka 2.3.4

1.431 process-nextick-args v2.0.1

1.431.1 Available under license:

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1.432 base-files 9.9+deb9u11

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1.433 reactive-streams 1.0.3

1.434 spring-boot-starter-cache 2.2.2

1.435 minimalistic-assert 1.0.1

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1.436 asm 7.1

1.437 good-listener 1.2.2

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2006-Jan-27

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1.447 browserify-des 1.0.2

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1.448 redis-starter 2.2.2

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1.452 base64-arraybuffer 0.1.5

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 */
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/** Tagging interface to indicate the library or callback uses an alternate
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* @author twall
*/
public interface AltCallingConvention {}
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1.467 spring-context-support 5.2.2

1.468 compiler 0.9.3

1.469 angularjs-nvd3-directives 0.0.8

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1.473 ca-certificates-java 20170929~deb9u3

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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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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.496 beanshell 2.0b6

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1.501 openjdk-7-jre 11.0.5

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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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### JRuby Joni v1.1.9

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### 1.513 min-document 2.19.0

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1.514 spring-cloud-sleuth-zipkin 2.2.0

1.515 lang-mustache-client 6.5.4

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*/
package org.springframework.security.acls.model;
import java.io.Serializable;

/**
 * Represents a permission granted to a <tt>Sid</tt> for a given domain object.
 * @author Ben Alex
 */
public interface Permission extends Serializable {
  // ~ Static fields/initializers
  //
  //
  char RESERVED_ON = '~';
  char RESERVED_OFF = '.';
  String THIRTY_TWO_RESERVED_OFF = ".........................";

  // ~ Methods
  //
  //
  int getMask();

  /**
   * Returns the bits that represents the permission.
   * @return the bits that represent the permission
   */
  int getMask();

  /**
   * Returns a 32-character long bit pattern <code>String</code> representing this
   * permission.
   * @return a 32-character bit pattern
   */
  String getPattern();
String getPattern();
}

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1.518 xerces-j Xerces-J 2.12.0
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1.519 spring-beans 3.2.17
1.520 desjs 1.0.0

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1.521 vdom-virtualize 2.0.0

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1.522 angular-simple-logger 0.1.7

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1.523 t-digest 3.2

1.524 clipboard 1.5.16
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1.525 springfox-core 2.9.2

1.526 parse 5.1.1
1.526.1 Available under license :
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1.528 feign-slf4j 10.4.0

1.529 elasticsearch-rest-client 6.5.4
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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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* 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

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1.534 spring-vault-core 2.2.0

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

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1.544 asm 2010.02.05
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1.569 string-decoder 0.10.31

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1.570 jetty-xml 9.4.24.v20191120

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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
org.apache.tomcat:tomcat-jasper
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org.eclipse.jetty.toolchain:jetty-schemas

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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

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org.ow2.asm:asm-commons
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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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.621 ns popover 0.6.8

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1.623 ev-store 7.0.0

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1.625 esapi 2.2.0.0

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1.627 spring-boot-starter-aop 2.2.2

1.628 libffi 3.2.1 6
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1.630 angular-common 8.0.3

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1.631 netty-codec-http 4.1.43

1.632 spring-plugin-core 1.2.0

1.633 commons-pool 2.7.0

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1.636 lombok 1.18.10
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

#perl
copyright.t

copyright.t

=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:
1.646 component-inherit 0.0.3

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1.647 antisamy 1.5.8

1.648 d3-tip 0.6.8

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1.649 batik-css 1.11

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1.651 xml-apis-ext 1.3.04

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1.653 netflix-statistics 0.1.1

1.654 glibc 2.24-11+deb9u4

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- analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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1.659 zstd-jni 1.4.0 1

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Zstd-jni: JNI bindings to Zstd Library

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