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# -*- coding: utf-8 -*-
#
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from __future__ import (absolute_import, division, print_function)
__metaclass__ = type

import os
import json
import pytest
import sys

if sys.version_info < (2, 7):
    pytestmark = pytest.mark.skip("F5 Ansible modules require Python >= 2.7")

from ansible.module_utils.basic import AnsibleModule

try:
    from library.modules.bigiq_regkey_license_assignment import ApiParameters
    from library.modules.bigiq_regkey_license_assignment import ModuleParameters
    from library.modules.bigiq_regkey_license_assignment import ModuleManager
    from library.modules.bigiq_regkey_license_assignment import ArgumentSpec

    # In Ansible 2.8, Ansible changed import paths.
    from test.units.compat import unittest
    from test.units.compat.mock import Mock
    from test.units.compat import mock
```
from test.units.modules.utils import set_module_args
except ImportError:
    from ansible.modules.network.f5.bigiq_regkey_license_assignment import ApiParameters
    from ansible.modules.network.f5.bigiq_regkey_license_assignment import ModuleParameters
    from ansible.modules.network.f5.bigiq_regkey_license_assignment import ModuleManager
    from ansible.modules.network.f5.bigiq_regkey_license_assignment import ArgumentSpec

    # Ansible 2.8 imports
    from units.compat import unittest
    from units.compat.mock import Mock
    from units.compat.mock import patch

    from units.modules.utils import set_module_args

    fixture_path = os.path.join(os.path.dirname(__file__), 'fixtures')
    fixture_data = {}

    def load_fixture(name):
        path = os.path.join(fixture_path, name)

        if path in fixture_data:
            return fixture_data[path]

        with open(path) as f:
            data = f.read()

        try:
            data = json.loads(data)
        except Exception:
            pass

        fixture_data[path] = data
        return data

    class TestParameters(unittest.TestCase):
        def test_module_parameters_unmanaged(self):
            args = dict(
                pool='foo-pool',
                key='XXXX-XXXX-XXXX-XXXX-XXXX',
                device='1.1.1.1',
                managed=False,
                device_username='admin',
                device_password='secret',
                device_port='8443'
            )
p = ModuleParameters(params=args)
assert p.pool == 'foo-pool'
assert p.key == 'XXXX-XXXX-XXXX-XXXX-XXXX'
assert p.device == '1.1.1.1'
assert p.managed is False
assert p.device_username == 'admin'
assert p.device_password == 'secret'
assert p.device_port == 8443

def test_module_parameters_managed(self):
    args = dict(
        pool='foo-pool',
        key='XXXX-XXXX-XXXX-XXXX-XXXX',
        device='1.1.1.1',
        managed=True,
    )

    p = ModuleParameters(params=args)
    assert p.pool == 'foo-pool'
    assert p.key == 'XXXX-XXXX-XXXX-XXXX-XXXX'
    assert p.device == '1.1.1.1'
    assert p.managed is True

class TestManager(unittest.TestCase):

    def setUp(self):
        self.spec = ArgumentSpec()
        self.patcher1 = patch('time.sleep')
        self.patcher1.start()

    def tearDown(self):
        self.patcher1.stop()

    def test_create(self, *args):
        set_module_args(dict(
            pool='foo-pool',
            key='XXXX-XXXX-XXXX-XXXX-XXXX',
            device='1.1.1.1',
            device_username='admin',
            device_password='secret',
            managed='no',
            state='present',
            provider=dict(
                server='localhost',
                password='password',
            ),
        ))
module = AnsibleModule(
    argument_spec=self.spec.argument_spec,
    supports_check_mode=self.spec.supports_check_mode,
    required_if=self.spec.required_if
)

mm = ModuleManager(module=module)

# Override methods to force specific logic in the module to happen
mm.exists = Mock(side_effect=[False, True])
mm.create_on_device = Mock(return_value=True)
mm.wait_for_device_to_be_licensed = Mock(return_value=True)

results = mm.exec_module()

assert results['changed'] is True

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from ansible.module_utils.basic import AnsibleModule

from library.modules.bigip_device_license import ApiParameters
from library.modules.bigip_device_license import ModuleParameters
from library.modules.bigip_device_license import ModuleManager
from library.modules.bigip_device_license import ArgumentSpec

# In Ansible 2.8, Ansible changed import paths.
from test.units.compat import unittest
from test.units.compat.mock import Mock
from test.units.compat.mock import patch
from test.units.modules.utils import set_module_args
except ImportError:
    from ansible.modules.network.f5.bigip_device_license import ApiParameters
    from ansible.modules.network.f5.bigip_device_license import ModuleParameters
    from ansible.modules.network.f5.bigip_device_license import ModuleManager
    from ansible.modules.network.f5.bigip_device_license import ArgumentSpec

# Ansible 2.8 imports
from units.compat import unittest
from units.compat.mock import Mock
from units.compat.mock import patch

from units.modules.utils import set_module_args

fixture_path = os.path.join(os.path.dirname(__file__), 'fixtures')
fixture_data = {}

def load_fixture(name):
    path = os.path.join(fixture_path, name)
    if path in fixture_data:
        return fixture_data[path]
    with open(path) as f:
        data = f.read()
    try:
        data = json.loads(data)
    except Exception:
        pass
    fixture_data[path] = data
    return data

class TestParameters(unittest.TestCase):
    def test_module_parameters(self):
        args = dict(
            license_key='xxxx-yyyy-zzzz',
            license_server='foo-license.f5.com',
            accept_eula=True
        )

        p = ModuleParameters(params=args)
        assert p.license_key == 'xxxx-yyyy-zzzz'
        assert p.license_server == 'foo-license.f5.com'
assert p.accept_eula is True

class TestModuleManager(unittest.TestCase):

def setUp(self):
    self.spec = ArgumentSpec()
    self.patcher1 = patch('time.sleep')
    self.patcher1.start()

def tearDown(self):
    self.patcher1.stop()

def test_create(self, *args):
    set_module_args(
        dict(
            license_key='xxxx-yyyy-zzzz',
            license_server='foo-license.f5.com',
            accept_eula=True,
            provider=dict(
                server='localhost',
                password='password',
                user='admin'
            )
        )
    )

    module = AnsibleModule(
        argument_spec=self.spec.argument_spec,
        supports_check_mode=self.spec.supports_check_mode,
        required_if=self.spec.required_if
    )
    mm = ModuleManager(module=module)

    # Override methods to force specific logic in the module to happen
    mm.exists = Mock(side_effect=[False, True])
    mm.read_dossier_from_device = Mock(return_value=True)
    mm.generate_license_from_remote = Mock(return_value=True)
    mm.upload_license_to_device = Mock(return_value=True)
    mm.upload_eula_to_device = Mock(return_value=True)
    mm.reload_license = Mock(return_value=True)
    mm._is_mcpd_ready_on_device = Mock(return_value=True)

    results = mm.exec_module()
    assert results['changed'] is True

# -*- coding: utf-8 -*-
#
# Copyright: (c) 2017, F5 Networks Inc.
from __future__ import (absolute_import, division, print_function)
__metaclass__ = type

import os
import json
import pytest
import sys

if sys.version_info < (2, 7):
    pytestmark = pytest.mark.skip("F5 Ansible modules require Python >= 2.7")

from ansible.module_utils.basic import AnsibleModule

try:
    from library.modules.bigiq_utility_license import ModuleParameters
    from library.modules.bigiq_utility_license import ModuleManager
    from library.modules.bigiq_utility_license import ArgumentSpec

# In Ansible 2.8, Ansible changed import paths.
from test.units.compat import unittest
from test.units.compat.mock import Mock
from test.units.compat.mock import patch
from test.units.modules.utils import set_module_args
except ImportError:
    from ansible.modules.network.f5.bigiq_utility_license import ModuleParameters
    from ansible.modules.network.f5.bigiq_utility_license import ModuleManager
    from ansible.modules.network.f5.bigiq_utility_license import ArgumentSpec

# Ansible 2.8 imports
from units.compat import unittest
from units.compat.mock import Mock
from units.compat.mock import patch
from units.modules.utils import set_module_args

fixture_path = os.path.join(os.path.dirname(__file__), 'fixtures')
fixture_data = {}
def load_fixture(name):
    path = os.path.join(fixture_path, name)
    if path in fixture_data:
        return fixture_data[path]
with open(path) as f:
    data = f.read()

try:
    data = json.loads(data)
except Exception:
    pass

fixture_data[path] = data
return data

class TestParameters(unittest.TestCase):
    def test_module_parameters(self):
        args = dict(
            license_key='XXXX-XXXX-XXXX-XXXX-XXXX',
            accept_eula=True,
        )

        p = ModuleParameters(params=args)
        assert p.license_key == 'XXXX-XXXX-XXXX-XXXX-XXXX'
        assert p.accept_eula is True

class TestManager(unittest.TestCase):

    def setUp(self):
        self.spec = ArgumentSpec()
        self.patcher1 = patch('time.sleep')
        self.patcher1.start()

    def tearDown(self):
        self.patcher1.stop()

    def test_create(self, *args):
        set_module_args(dict(
            license_key='XXXX-XXXX-XXXX-XXXX-XXXX',
            accept_eula=True,
            provider=dict(
                server='localhost',
                password='password',
                user='admin',
            ),
        ))

        module = AnsibleModule(
            argument_spec=self.spec.argument_spec,
support_check_mode=self.spec.supports_check_mode,
required_if=self.spec.required_if
)
mm = ModuleManager(module=module)

# Override methods to force specific logic in the module to happen
mm.exists = Mock(side_effect=[False, True])
mm.create_on_device = Mock(return_value=True)
mm.wait_for_initial_license_activation = Mock(return_value=True)
mm.wait_for_utility_license_activation = Mock(return_value=True)

results = mm.exec_module()

assert results['changed'] is True

# -*- coding: utf-8 -*-
#
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from __future__ import (absolute_import, division, print_function)
__metaclass__ = type

import os
import json
import pytest
import sys

if sys.version_info < (2, 7):
    pytestmark = pytest.mark.skip("F5 Ansible modules require Python >= 2.7")

from ansible.module_utils.basic import AnsibleModule

try:
    from library.modules.bigiq_utility_license_assignment import ApiParameters
    from library.modules.bigiq_utility_license_assignment import ModuleParameters
    from library.modules.bigiq_utility_license_assignment import ModuleManager
    from library.modules.bigiq_utility_license_assignment import ArgumentSpec

    # In Ansible 2.8, Ansible changed import paths.
    from test.units.compat import unittest
    from test.units.compat.mock import Mock
    from test.units.compat.mock import patch
    from test.units.modules.utils import set_module_args
except ImportError:
    from ansible.modules.network.f5.bigiq_utility_license_assignment import ApiParameters
    from ansible.modules.network.f5.bigiq_utility_license_assignment import ModuleParameters
    from ansible.modules.network.f5.bigiq_utility_license_assignment import ModuleManager
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from ansible.modules.network.f5.bigiq_utility_license_assignment import ArgumentSpec

# Ansible 2.8 imports
from units.compat import unittest
from units.compat.mock import Mock
from units.compat.mock import patch
from units.modules.utils import set_module_args

fixture_path = os.path.join(os.path.dirname(__file__), 'fixtures')
fixture_data = {}

def load_fixture(name):
    path = os.path.join(fixture_path, name)
    if path in fixture_data:
        return fixture_data[path]
    with open(path) as f:
        data = f.read()
    try:
        data = json.loads(data)
    except Exception:
        pass
    fixture_data[path] = data
    return data

class TestParameters(unittest.TestCase):
    def test_module_parameters_unmanaged(self):
        args = dict(
            offering='asdf',
            key='XXXX-XXXX-XXXX-XXXX-XXXX',
            device='1.1.1.1',
            managed=False,
            device_username='admin',
            device_password='secret',
            device_port='8443'
        )

        p = ModuleParameters(params=args)
        assert p.offering == 'asdf'
        assert p.key == 'XXXX-XXXX-XXXX-XXXX-XXXX'
        assert p.device == '1.1.1.1'
assert p.managed is False
assert p.device_username == 'admin'
assert p.device_password == 'secret'
assert p.device_port == 8443

def test_module_parameters_managed(self):
    args = dict(
        offering='asdf',
        key='XXXX-XXXX-XXXX-XXXX-XXXX',
        device='1.1.1.1',
        managed=True,
    )

    p = ModuleParameters(params=args)
    assert p.offering == 'asdf'
    assert p.key == 'XXXX-XXXX-XXXX-XXXX-XXXX'
    assert p.device == '1.1.1.1'
    assert p.managed is True

class TestManager(unittest.TestCase):

    def setUp(self):
        self.spec = ArgumentSpec()

    def test_create(self, *args):
        set_module_args(dict(
            offering='asdf',
            key='XXXX-XXXX-XXXX-XXXX-XXXX',
            device='1.1.1.1',
            device_username='admin',
            device_password='secret',
            managed='no',
            state='present',
            provider=dict(
                server='localhost',
                password='password',
                user='admin'
            )
        ))

        module = AnsibleModule(
            argument_spec=self.spec.argument_spec,
            supports_check_mode=self.spec.supports_check_mode,
            required_if=self.spec.required_if
        )
        mm = ModuleManager(module=module)
Override methods to force specific logic in the module to happen
mm.exists = Mock(side_effect=[False, True])
mm.create_on_device = Mock(return_value=True)
mm.wait_for_device_to_be_licensed = Mock(return_value=True)

results = mm.exec_module()

assert results['changed'] is True
{
  "description": "this is a description",
  "generation": 2,
  "id": "452f8628-1e56-4b4d-946c-0e68f5780aa1",
  "kind": "cm:device:licensing:pool:regkey:licenses:regkeypoollicensestate",
  "lastUpdateMicros": 1513371645532221,
  "name": "asd",
  "selfLink": "https://localhost/mgmt/cm/device/licensing/pool/regkey/licenses/452f8628-1e56-4b4d-946c-0e68f5780aa1",
  "sortName": "Registration Key Pool"
}
{
  "description": "foo bar baz",
  "dossier": "5d54d976",
  "encryptedPrivateKey": [
    27,
    -10,
    12,
    58,
    75
  ],
  "generation": 2,
  "internalPrivateKey": "sKpXEU7",
  "lastUpdateMicros": 1513107721123304,
  "licenseState": {
    "vendor": "F5 Networks, Inc.",
    "licensedDateTime": "2017-12-12T00:00:00-08:00",
    "licensedVersion": "5.3.0",
    "evaluationStartDateTime": "2017-12-11T00:00:00-08:00",
    "evaluationEndDateTime": "2018-01-12T00:00:00-08:00",
    "licenseEndDateTime": "2018-01-12T00:00:00-08:00",
    "licenseStartDateTime": "2017-12-11T00:00:00-08:00",
    "registrationKey": "XXXX-XXXX-XXXX-XXXX-XXXX",
    "dossier": "1a44262799bc",
    "authorization": "03fc41d1e8666",
    "usage": "F5 Internal Product Development",
    "platformId": "Z100",
    "authVers": "5b",
    "serviceCheckDateTime": "2017-12-12T00:00:00-08:00"}
"serviceStatus": "As of 2017-12-12 there is no active service contract. This may inhibit your ability to upgrade your software."
,"exclusivePlatform": [  "Z100",  "Z100A",  "Z100AzureCloud",  "Z100GoogleCloud",  "Z100K",  "Z100x",  "Z100H"
],
"activeModules": [  "APM, Max, VE (2500 CCU, 10000 Access Sessions)|P961057-1761515|Anti-Virus Checks",  "LTM, 10 Gbps, VE|T487107-2453693|, VE|DNSSEC",  "PEM, VE|X895364-1851682"
],
"optionalModules": [  "APM, Base, VE (50 CCU / 200 AS)",  "App Mode (TMSH Only, No Root/Bash)",  "Concurrent Users",  "Concurrent Users and Access Sessions, VE",  "FIPS 140-2 Level 1, BIG-IP VE-1G to 10G",  "IP Intelligence, 1Yr, VE",  "IP Intelligence, 1Yr, VE-10G",  "IP Intelligence, 3Yr, VE-10G",  "LTM to Better Bundle Upgrade, 10Gbps",  "PEM URL Filtering, 1Yr, HIGH PERF",  "PEM URL Filtering, 3Yr, HIGH PERF",  "Routing Bundle",  "Secure Web Gateway, 1Yr, VE",  "URL Filtering, 1Yr, VE"
],
"moduleEvaluations": [
{  "moduleName": "IP Intelligence, 3Yr, VE|SUBSCRIPTION",  "endDate": "soon"  },
{  "moduleName": "Secure Web Gateway, 3Yr, VE|SUBSCRIPTION",  "endDate": "soon"  },
{  "moduleName": "URL Filtering, 3Yr, VE|SUBSCRIPTION",  "endDate": "soon"  }
],
"featureFlags": [

"featureName": "gtm_rate_limit",
"featureValue": "12345"
],
"generation": 0,
"lastUpdateMicros": 0
},
"licenseText": "#Auth vers : BIG-IQ Product License File#",
"message": "License XXXX-XXXX-XXXX-XXXX ready",
"name": "License for XXXX-XXXX-XXXX-XXXX-XXXX",
"publicKey": [
48,
0,
1
],
"regKey": "XXXX-XXXX-XXXX-XXXX-XXXX",
"selfLink": "https://localhost/mgmt/cm/device/licensing/pool/regkey/licenses/452f8628-1e56-4b4d-946c-0e6f5780aa1/offering/XXXX-XXXX-XXXX-XXXX-XXXX",
"sortName": "Registration Key Pool Item",
"status": "READY"
}

# -*- coding: utf-8 -*-

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from __future__ import (absolute_import, division, print_function)
__metaclass__ = type

import os
import json
import pytest
import sys

if sys.version_info < (2, 7):
    pytestmark = pytest.mark.skip("F5 Ansible modules require Python >= 2.7")

from ansible.module_utils.basic import AnsibleModule

try:
    from library.modules.bigiq_regkey_license import ModuleParameters
    from library.modules.bigiq_regkey_license import ApiParameters
    from library.modules.bigiq_regkey_license import ModuleManager
    from library.modules.bigiq_regkey_license import ArgumentSpec

    # In Ansible 2.8, Ansible changed import paths.
    from test.units.compat import unittest
    from test.units.compat.mock import Mock
from test.units.compat.mock import patch

from test.units.modules.utils import set_module_args

except ImportError:
    from ansible.modules.network.f5.bigiq_regkey_license import ModuleParameters
    from ansible.modules.network.f5.bigiq_regkey_license import ApiParameters
    from ansible.modules.network.f5.bigiq_regkey_license import ModuleManager
    from ansible.modules.network.f5.bigiq_regkey_license import ArgumentSpec

    # Ansible 2.8 imports
    from units.compat import unittest
    from units.compat.mock import Mock
    from units.compat.mock import patch

    from units.modules.utils import set_module_args

fixture_path = os.path.join(os.path.dirname(__file__), 'fixtures')
fixture_data = {}

def load_fixture(name):
    path = os.path.join(fixture_path, name)
    if path in fixture_data:
        return fixture_data[path]
    with open(path) as f:
        data = f.read()
    try:
        data = json.loads(data)
    except Exception:
        pass
    fixture_data[path] = data
    return data

class TestParameters(unittest.TestCase):
    def test_module_parameters(self):
        args = dict(
            regkey_pool='foo',
            license_key='XXXX-XXXX-XXXX-XXXX-XXXX',
            accept_eula=True,
            description='this is a description'
        )
p = ModuleParameters(params=args)
assert p.regkey_pool == 'foo'
assert p.license_key == 'XXXX-XXXX-XXXX-XXXX-XXXX'
assert p.accept_eula is True
assert p.description == 'this is a description'

def test_api_parameters(self):
    args = load_fixture('load_regkey_license_key.json')

    p = ApiParameters(params=args)
    assert p.description == 'foo bar baz'

class TestManager(unittest.TestCase):
    def setUp(self):
        self.spec = ArgumentSpec()
        self.patcher1 = patch('time.sleep')
        self.patcher1.start()

    def tearDown(self):
        self.patcher1.stop()

    def test_create(self, *args):
        set_module_args(dict(
            regkey_pool='foo',
            license_key='XXXX-XXXX-XXXX-XXXX-XXXX',
            accept_eula=True,
            description='this is a description',
            provider=dict(
                server='localhost',
                password='password',
                user='admin',
            )
        ))

        module = AnsibleModule(
            argument_spec=self.spec.argument_spec,
            supports_check_mode=self.spec.supports_check_mode
        )
        mm = ModuleManager(module=module)

        # Override methods to force specific logic in the module to happen
        mm.exists = Mock(side_effect=[False, True])
        mm.create_on_device = Mock(return_value=True)

        results = mm.exec_module()
assert results['changed'] is True
assert results['description'] == 'this is a description'

shippable/vcenter/group1
cloud/vcenter

# Test code for the vcenter license module.
# Copyright: (c) 2017, Dag Wieers <dag@wieers.com>
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- name: Wait for vcsim controller to come online {{ vcsim }}
  wait_for:
    host: "{{ vcsim }}"
    port: 5000
    state: started

- name: Kill vcsim
  uri:
    url: http://{{ vcsim }}:5000/killall

- name: Start vcsim
  uri:
    url: http://{{ vcsim }}:5000/spawn?cluster=2
  register: vcsim_instance

- name: Wait for vcsim server to come up online {{ vcsim }}
  wait_for:
    host: "{{ vcsim }}"
    port: 443
    state: started

- debug:
  var: vcsim_instance

# FIXME: ServerFaultCode: LicenseManager:LicenseManager does not implement: AddLicense
#- name: Add a vCenter evaluation license
#  vcenter_license:
#    hostname: '{{ vcsim }}'
#    username: '{ { vcsim_instance["json"]['username'] } }'
#    password: '{ { vcsim_instance["json"]["password"] } }'
#    validate_certs: no
#    license: 00000-00000-00000-00000-00000
#    state: present

#- name: Remove an (unused) vCenter evaluation license
#  vcenter_license:
#    hostname: '{ { vcsim } }
#    username: '{ { vcsim_instance["json"]['username'] } }'
#    password: '{ { vcsim_instance["json"]["password"] } }'
#    validate_certs: no
# license: 00000-00000-00000-00000-00000
# state: absent

#- name: Add an invalid vCenter license
#  vcenter_license:
#    hostname: '{{ vcsim }}'
#    username: '{{ vcsim_instance["json"]"username"[ ]}}'
#    password: '{{ vcsim_instance["json"]"password"[ ]}}'
#    validate_certs: no
#    license: 00000-00000-00000-00000-00001
#    state: present
#    ignore_errors: yes

.. _contributor_license_agreement:

**************************
Contributors License Agreement
**************************

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the license of the project.

This package was debianized by Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu> on
Tue, 17 Apr 2012 12:19:47 -0400.

It was downloaded from https://github.com/ansible/ansible.git

Copyright: Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu>

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Apache License

Version 2.0, January 2004
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#!/usr/bin/python
# -*- coding: utf-8 -*-
# (c) 2016, Cumulus Networks <ce-ceng@cumulusnetworks.com>
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from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
                    'status': ['removed'],
                    'supported_by': 'community'}

from ansible.module_utils.common.removed import removed_module

if __name__ == '__main__':
    removed_module(removed_in="2.5")

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from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
                    'status': ['preview'],
                    'supported_by': 'certified'}

DOCUMENTATION = ''
---
module: bigip_device_license
short_description: Manage license installation and activation on BIG-IP devices
description:
- Manage license installation and activation on a BIG-IP.
version_added: 2.6
options:
  license_key:
    description:
    - The registration key to use to license the BIG-IP.
    - This parameter is required if the C(state) is equal to C(present).
    - This parameter is not required when C(state) is C(absent) and will be ignored if it is provided.
    type: str
  license_server:
description:
- The F5 license server to use when getting a license and validating a dossier.
- This parameter is required if the C(state) is equal to C(present).
- This parameter is not required when C(state) is C(absent) and will be ignored if it is provided.

type: str
default: activate.f5.com

state:

description:
- The state of the license on the system.
- When C(present), only guarantees that a license is there.
- When C(latest), ensures that the license is always valid.
- When C(absent), removes the license on the system.
- When C(revoked), removes the license on the system and revokes its future usage on the F5 license servers.

type: str
choices:
- absent
- present
- revoked
default: present

accept_eula:

description:
- Declares whether you accept the BIG-IP EULA or not. By default, this value is C(no). You must specifically declare that you have viewed and accepted the license. This module will not present you with that EULA though, so it is incumbent on you to read it.
- The EULA can be found here; https://support.f5.com/csp/article/K12902.
- This parameter is not required when C(state) is C(absent) and will be ignored if it is provided.

type: bool
default: no

extends_documentation_fragment: f5

author:
- Tim Rupp (@caphrim007)

EXAMPLES = ""
- name: License BIG-IP using a key
  bigip_device_license:
    license_key: "XXXXX-XXXXX-XXXXX-XXXXX-XXXXXXX"
  provider:
    server: "lb.mydomain.com"
    user: "admin"
    password: "secret"
  delegate_to: localhost

- name: Remove the license from the system
bigip_device_license:
    state: "absent"
    provider:
        server: "lb.mydomain.com"
        user: "admin"
        password: "secret"
        delegate_to: localhost

RETURN = r"
# only common fields returned
"

from ansible.module_utils.basic import AnsibleModule
from ansible.module_utils.six import iteritems
import re
import time
import xml.etree.ElementTree

try:
    from library.module_utils.network.f5.bigip import F5RestClient
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import AnsibleF5Parameters
    from library.module_utils.network.f5.common import fq_name
    from library.module_utils.network.f5.icontrol import iControlRestSession
except ImportError:
    from ansible.module_utils.network.f5.bigip import F5RestClient
    from ansible.module_utils.network.f5.common import F5ModuleError
    from ansible.module_utils.network.f5.common import AnsibleF5Parameters
    from ansible.module_utils.network.f5.common import fq_name
    from ansible.module_utils.network.f5.icontrol import iControlRestSession

class LicenseXmlParser(object):
    def __init__(self, content=None):
        self.raw_content = content
        try:
            self.content = xml.etree.ElementTree.fromstring(content)
        except xml.etree.ElementTree.ParseError as ex:
            raise F5ModuleError("Provided XML payload is invalid. Received '{0}'.").format(str(ex)))

@property
    def namespaces(self):
        result = {
            'xsi': 'http://www.w3.org/2001/XMLSchema-instance'
@property
def eula(self):
    try:
        root = self.content.findall('.//eula', self.namespaces)
        return root[0].text
    except Exception:
        return None

@property
def license(self):
    try:
        root = self.content.findall('.//license', self.namespaces)
        return root[0].text
    except Exception:
        return None

def find_element(self, value):
    root = self.content.findall('.//multiRef', self.namespaces)
    if len(root) == 0:
        return None
    for elem in root:
        for k, v in iteritems(elem.attrib):
            if value in v:
                return elem

@property
def state(self):
    elem = self.find_element('TransactionState')
    if elem is not None:
        return elem.text

@property
def fault_number(self):
    fault = self.get_fault()
    return fault.get('faultNumber', None)

@property
def fault_text(self):
    fault = self.get_fault()
    return fault.get('faultText', None)

def get_fault(self):
    result = dict()
    self.set_result_for_license_fault(result)
self.set_result_for_general_fault(result)

if 'faultNumber' not in result:
    result['faultNumber'] = None
return result

def set_result_for_license_fault(self, result):
    root = self.find_element('LicensingFault')
    if root is None:
        return result
    for elem in root:
        if elem.tag == 'faultNumber':
            result['faultNumber'] = int(elem.text)
        elif elem.tag == 'faultText':
            tmp = elem.attrib.get('{http://www.w3.org/2001/XMLSchema-instance}nil', None)
            if tmp == 'true':
                result['faultText'] = None
            else:
                result['faultText'] = elem.text

def set_result_for_general_fault(self, result):
    namespaces = {
                  'ns2': 'http://schemas.xmlsoap.org/soap/envelope/
    }
    root = self.content.findall('.//ns2:Fault', namespaces)
    if len(root) == 0:
        return None
    for elem in root[0]:
        if elem.tag == 'faultstring':
            result['faultText'] = elem.text

def json(self):
    result = dict(
                eula=self.eula or None,
                license=self.license or None,
                state=self.state or None,
                fault_number=self.fault_number,
                fault_text=self.fault_text or None
            )
    return result

class Parameters(AnsibleF5Parameters):
    api_map = {
                  'licenseEndDateTime': 'license_end_date_time',
    }
    api_attributes = [
class ApiParameters(Parameters):
    pass

class ModuleParameters(Parameters):
    @property
    def license_options(self):
        result = dict(
            eula=self.eula or '',
            email=self.email or '',
            first_name=self.first_name or '',
            last_name=self.last_name or '',
            company=self.company or '',
            phone=self.phone or '',
            job_title=self.job_title or '',
            address=self.address or '',
            city=self.city or '',
            state=self.state or '',
            postal_code=self.postal_code or '',
            country=self.country or ''
        )
        return result

    @property
    def license_url(self):
        result = 'https://{0}/license/services/urn:com.f5.license.v5b.ActivationService'.format(self.license_server)
        return result

    @property
    def license_envelope(self):
        result = None
        return result

        result = """<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:ns3="http://www.w3.org/2001/XMLSchema"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:NS0="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:NS1="https://{0}/license/services/urn:com.f5.license.v5b.ActivationService"
xmlns:NS2="http://schemas.xmlsoap.org/soap/envelope/""
<SOAP-ENV:Envelope>
<ns2:Body>
<ns1:getLicense>
<dossier xsi:type="ns3:string">{1}</dossier>
<eula xsi:type="ns3:string">{eula}</eula>
<email xsi:type="ns3:string">{email}</email>
<firstName xsi:type="ns3:string">{first_name}</firstName>
<lastName xsi:type="ns3:string">{last_name}</lastName>
<companyName xsi:type="ns3:string">{company}</companyName>
<phone xsi:type="ns3:string">{phone}</phone>
<jobTitle xsi:type="ns3:string">{job_title}</jobTitle>
<address xsi:type="ns3:string">{address}</address>
<city xsi:type="ns3:string">{city}</city>
<stateProvince xsi:type="ns3:string">{state}</stateProvince>
<postalCode xsi:type="ns3:string">{postal_code}</postalCode>
<country xsi:type="ns3:string">{country}</country>
</ns1:getLicense>
</ns2:Body>
</SOAP-ENV:Envelope>

result = result.format(self.license_server, self.dossier, **self.license_options)
return result

class Changes(Parameters):
    def to_return(self):
        result = {}
        try:
            for returnable in self.returnables:
                result[returnable] = getattr(self, returnable)
        result = self._filter_params(result)
        except Exception:
            pass
        return result

class UsableChanges(Changes):
    pass

class ReportableChanges(Changes):
    pass

class Difference(object):
    def __init__(self, want, have=None):
self.want = want
self.have = have

def compare(self, param):
    try:
        result = getattr(self, param)
        return result
    except AttributeError:
        return self.__default(param)

def __default(self, param):
    attr1 = getattr(self.want, param)
    try:
        attr2 = getattr(self.have, param)
        if attr1 != attr2:
            return attr1
    except AttributeError:
        return attr1

class ModuleManager(object):
    def __init__(self, *args, **kwargs):
        self.module = kwargs.get('module', None)
        self.client = F5RestClient(**self.module.params)
        self.want = ModuleParameters(params=self.module.params, client=self.client)
        self.have = ApiParameters(client=self.client)
        self.changes = UsableChanges()
        self.escape_patterns = r'([^$"\'\])'

    def _set_changed_options(self):
        changed = {}
        for key in Parameters.returnables:
            if getattr(self.want, key) is not None:
                changed[key] = getattr(self.want, key)
        if changed:
            self.changes = UsableChanges(params=changed)

    def _update_changed_options(self):
        diff = Difference(self.want, self.have)
        updatables = Parameters.updatables
        changed = dict()
        for k in updatables:
            change = diff.compare(k)
            if change is None:
                continue
            else:
                if isinstance(change, dict):
                    changed.update(change)

        def __init__(self, *args, **kwargs):
            self.module = kwargs.get('module', None)
            self.client = F5RestClient(**self.module.params)
            self.want = ModuleParameters(params=self.module.params, client=self.client)
            self.have = ApiParameters(client=self.client)
            self.changes = UsableChanges()
            self.escape_patterns = r'([^$"\'\])'

    def _set_changed_options(self):
        changed = {}
        for key in Parameters.returnables:
            if getattr(self.want, key) is not None:
                changed[key] = getattr(self.want, key)
        if changed:
            self.changes = UsableChanges(params=changed)

    def _update_changed_options(self):
        diff = Difference(self.want, self.have)
        updatables = Parameters.updatables
        changed = dict()
        for k in updatables:
            change = diff.compare(k)
            if change is None:
                continue
            else:
                if isinstance(change, dict):
                    changed.update(change)
else:
    changed[k] = change
if changed:
    self.changes = UsableChanges(params=changed)
    return True
return False

def should_update(self):
    result = self._update_changed_options()
    if result:
        return True
    return False

def exec_module(self):
    changed = False
    result = dict()
    state = self.want.state

    if state == "present":
        changed = self.present()
    elif state == "absent":
        changed = self.absent()
    elif state == "revoked":
        changed = self.revoke()

    reportable = ReportableChanges(params=self.changes.to_return())
    changes = reportable.to_return()
    result.update(**changes)
    result.update(dict(changed=changed))
    self._announce_deprecations(result)
    return result

def _announce_deprecations(self, result):
    warnings = result.pop('__warnings', [])
    for warning in warnings:
        self.client.module.deprecate(
            msg=warning['msg'],
            version=warning['version'])

def present(self):
    if self.exists() and not self.is_revoked():
        return False
    else:
        return self.create()

def remove(self):
    if self.module.check_mode:
return True
self.remove_from_device()
if self.exists():
    raise F5ModuleError("Failed to delete the resource.")
return True

def revoke(self):
    if self.is_revoked():
        return False
else:
    # When revoking a license, it should be acceptable to auto-accept the
    # license since you accepted it the first time when you activated the
    # license you are now revoking.
    self.want.update({'accept_eula': True})

    # Revoking seems to just be another way of saying "get me a new license".
    # There appear to be revoke-specific wording in the license and I assume
    # some special revoke-like signing is happening, but the process is essentially
    # just another form of "create".
    return self.create()

def revoke_from_device(self):
    if self.module.check_mode:
        return True
    dossier = self.read_dossier_from_device()
    if dossier:
        self.want.update({'dossier': dossier})
    else:
        raise F5ModuleError("Dossier not generated.")

    if self.is_revoked():
        return False
def is_revoked(self):
    command = '-c "egrep Revoked /config/bigip.license"
params = dict(
    command='run',
    utilCmdArgs=command
)
uri = "https://{}/mgmt/tm/util/bash".format(
    self.client.provider['server'],
    self.client.provider['server_port']
)
resp = self.client.api.post(uri, json=params)
try:
    response = resp.json()
except ValueError as ex:
raise F5ModuleError(str(ex))

if 'code' in response and response['code'] in [400, 403]:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp.content)
if 'commandResult' in response and 'Revoked' in response['commandResult']:
    return True
return False

def read_dossier_from_device(self):
    params = dict(
        command='run',
        utilCmdArgs='-b "{0}"'.format(self.want.license_key)
    )
    if self.want.state == 'revoked':
        params['utilCmdArgs'] = '-r ' + params['utilCmdArgs']

    uri = "https://{0}:{1}/mgmt/tm/util/get-dossier".format(
        self.client.provider['server'],
        self.client.provider['server_port']
    )
    resp = self.client.api.post(uri, json=params)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if 'code' in response and response['code'] in [400, 403]:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp.content)
    try:
        if self.want.state == 'revoked':
            return response['commandResult'][8:]
        else:
            return response['commandResult']
    except Exception:
        return None

def generate_license_from_remote(self):
    mgmt = iControlRestSession(
        validate_certs=False,
        headers={
            'SOAPAction': "",
            'Content-Type': 'text/xml; charset=utf-8',
        ...
for x in range(0, 10):
    try:
        resp = mgmt.post(
            self.want.license_url,
            data=self.want.license_envelope,
        )
    except Exception:
        continue

try:
    resp = LicenseXmlParser(content=resp.content)
    result = resp.json()
except F5ModuleError:
    # This error occurs when there is a problem with the license server and it
    # starts returning invalid XML (like if they upgraded something and the server
    # is redirecting improperly.
    #
    # There's no way to recover from this error except by notifying F5 that there
    # is an issue with the license server.
    raise
except Exception:
    continue

if result['state'] == 'EULA_REQUIRED':
    self.want.update({'eula': result['eula']})
    continue
if result['state'] == 'LICENSE_RETURNED':
    return result
elif result['state'] == 'EMAIL_REQUIRED':
    raise F5ModuleError("Email must be provided")
elif result['state'] == 'CONTACT_INFO_REQUIRED':
    raise F5ModuleError("Contact info must be provided")
else:
    raise F5ModuleError(result['fault_text'])

def create(self):
    self._set_changed_options()
    if not self.want.accept_eula:
        raise F5ModuleError("You must read and accept the product EULA to license the box."
    )
    if self.module.check_mode:
        return True

dossier = self.read_dossier_from_device()
if dossier:
    self.want.update({'dossier': dossier})
else:
    raise F5ModuleError("Dossier not generated.")

self.create_on_device()
self.wait_for_mcpd()
if not self.exists():
    raise F5ModuleError("Failed to license the device.")
return True

def absent(self):
    if self.any_license_exists():
        self.remove()
        self.wait_for_mcpd()
    if self.exists():
        raise F5ModuleError("Failed to remove the license from the device.")
    return True
return False

def exists(self):
    uri = "https://{0}:{1}/mgmt/tm/shared/licensing/registration".format(
        self.client.provider['server'],
        self.client.provider['server_port'],
    )
    resp = self.client.api.get(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))

    if 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp.content)

    try:
        if response['registrationKey'] == self.want.license_key:
            return True
    except Exception:
        pass
    return False
def wait_for_mcpd(self):
    nops = 0

    # Sleep a little to let mcpd settle and begin properly
    time.sleep(5)

    while nops < 4:
        try:
            if self._is_mcpd_ready_on_device():
                nops += 1
            else:
                nops = 0
        except Exception:
            pass
        time.sleep(5)

    def _is_mcpd_ready_on_device(self):
        try:
            command = "tmsh show sys mcp-state | grep running"
            params = dict(  
                command='run',
                utilCmdArgs='-c \"{}\"'.format(command)
            )
            uri = "https://{}:{}/mgmt/tm/util/bash".format(  
                self.client.provider["server"],
                self.client.provider["server_port"]
            )
            resp = self.client.api.post(uri, json=params)
            try:
                response = resp.json()
                except ValueError as ex:
                    raise F5ModuleError(str(ex))
                if 'code' in response and response['code'] in [400, 403]:
                    if 'message' in response:
                        raise F5ModuleError(response['message'])
                    else:
                        raise F5ModuleError(resp.content)
                if 'commandResult' in response:
                    return True
            except Exception:
                pass
            return False

    def any_license_exists(self):
        uri = "https://{}:{}/mgmt/tm/shared/licensing/registration".format(  
            self.client.provider["server"],
        )
self.client.provider['server_port'],
)
resp = self.client.api.get(uri)
try:
    response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))

if 'code' in response and response['code'] == 400:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp.content)

try:
    if response['registrationKey'] is not None:
        return True
except Exception:
    pass
return False

def create_on_device(self):
    license = self.generate_license_from_remote()
    if license is None:
        raise F5ModuleError("Failed to generate license from F5 activation servers."
    
)
result = self.upload_license_to_device(license)
if not result:
    raise F5ModuleError("Failed to install license on device."
    
)
result = self.upload_eula_to_device(license)
if not result:
    raise F5ModuleError("Failed to upload EULA file to device."
    
)
result = self.reload_license()
if not result:
    raise F5ModuleError("Failed to reload license configuration.""
    
)

def upload_license_to_device(self, license):
    license_payload = re.sub(self.escape_patterns, r'\\\', license['license'])
    command_arg = """cat > /config/bigip.license <<EOF\n{0}\nEOF""".format(license_payload)
    command = '-c "{0}"'.format(command_arg)
    params = dict(
        command=\'run',
        
    )
utilCmdArgs=command
)
uri = "https://{0}:{1}/mgmt/tm/util/bash".format(
    self.client.provider['server'],
    self.client.provider['server_port']
)
resp = self.client.api.post(uri, json=params)
try:
    response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))
if 'code' in response and response['code'] in [400, 403]:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp.content)
return True

def upload_eula_to_device(self, license):
    eula_payload = re.sub(self.escape_patterns, r'\\1', license['eula'])
    command_arg = """cat > /LICENSE.F5 <<EOF\n{0}\nEOF""".format(eula_payload)
    command = '-c "{0}"'.format(command_arg)
    params = dict(
        command='run',
        utilCmdArgs=command
    )
    uri = "https://{0}:{1}/mgmt/tm/util/bash".format(
        self.client.provider['server'],
        self.client.provider['server_port']
    )
    resp = self.client.api.post(uri, json=params)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if 'code' in response and response['code'] in [400, 403]:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp.content)
    return True

def reload_license(self):
    command = '-c "\"{0}\"".format("/usr/bin/reloadlic")
    params = dict(
        command='run',
    )
utilCmdArgs=command
)
uri = "https://{0}:{1}/mgmt/tm/util/bash".format(
    self.client.provider['server'],
    self.client.provider['server_port']
)
resp = self.client.api.post(uri, json=params)
try:
    response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))

if 'code' in response and response['code'] in [400, 403]:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp.content)
return True

def remove_from_device(self):
    result = self.remove_license_from_device()
    if not result:
        raise F5ModuleError(
            "Failed to remove license from device."
        )
    result = self.remove_eula_from_device()
    if not result:
        raise F5ModuleError(
            "Failed to remove EULA file from device."
        )
    result = self.reload_license()
    if not result:
        raise F5ModuleError(
            "Failed to reload the empty license configuration."
        )

def remove_license_from_device(self):
    params = dict(
        command='run',
        utilCmdArgs="/config/bigip.license"
    )
    uri = "https://{0}:{1}/mgmt/tm/util/bash".format(
        self.client.provider['server'],
        self.client.provider['server_port']
    )
    resp = self.client.api.post(uri, json=params)
    try:
response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))

if 'code' in response and response['code'] in [400, 403]:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp.content)

if 'commandResult' in response:
    if 'No such file or directory' in response['commandResult']:
        return True
    else:
        raise F5ModuleError(response['commandResult'])
return True

def remove_eula_from_device(self):
    params = dict(
        command='run',
        utilCmdArgs='/LICENSE.F5'
    )
    uri = "https://{0}:{1}/mgmt/tm/util/bash".format(
        self.client.provider['server'],
        self.client.provider['server_port']
    )
    resp = self.client.api.post(uri, json=params)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if 'code' in response and response['code'] in [400, 403]:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp.content)
    if 'commandResult' in response:
        if 'No such file or directory' in response['commandResult']:
            return True
        else:
            raise F5ModuleError(response['commandResult'])
    return True

class ArgumentSpec(object):
def __init__(self):
    self.supports_check_mode = True
    argument_spec = dict(
        license_key=dict(),
        license_server=dict(
            default='activate.f5.com',
        ),
        state=dict(
            choices=['absent', 'present', 'revoked'],
            default='present',
        ),
        accept_eula=dict(
            type='bool',
            default='no',
        ),
    )
    self.argument_spec = {}
    self.argument_spec.update(f5_argument_spec)
    self.argument_spec.update(argument_spec)
    self.required_if = [
        [state, 'present', [accept_eula, license_key]]
    ]

def main():
    spec = ArgumentSpec()

    module = AnsibleModule(
        argument_spec=spec.argument_spec,
        supports_check_mode=spec.supports_check_mode,
        required_if=spec.required_if,
    )

    try:
        mm = ModuleManager(module=module)
        results = mm.exec_module()
        module.exit_json(**results)
    except F5ModuleError as ex:
        module.fail_json(msg=str(ex))

if __name__ == '__main__':
    main()

#!/usr/bin/python
# -*- coding: utf-8 -*-

# Copyright: (c) 2017, F5 Networks Inc.
# GNU General Public License v3.0 (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)
from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
                    'status': ['preview'],
                    'supported_by': 'certified'}

DOCUMENTATION = r'''
---
module: bigiq_utility_license
short_description: Manage utility licenses on a BIG-IQ
description:
  - Manages utility licenses on a BIG-IQ. Utility licenses are one form of licenses that BIG-IQ can distribute. These licenses, unlike regkey licenses, do not require a pool to be created before creation. Additionally, when assigning them, you assign by offering instead of key.
version_added: 2.6
options:
  license_key:
    description:
      - The license key to install and activate.
    type: str
    required: True
  accept_eula:
    description:
      - A key that signifies that you accept the F5 EULA for this license.
      - A copy of the EULA can be found here https://askf5.f5.com/csp/article/K12902
      - This is required when C(state) is C(present).
    type: bool
state:
  description:
    - The state of the utility license on the system.
    - When C(present), guarantees that the license exists.
    - When C(absent), removes the license from the system.
  type: str
  choices:
    - absent
    - present
  default: present
requirements:
  - BIG-IQ >= 5.3.0
extends_documentation_fragment: f5
author:
  - Tim Rupp (@caphrim007)
...
EXAMPLES = r""
- name: Add a utility license to the system
  bigiq_utility_license:
    license_key: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
    accept_eula: yes
    state: present
    provider:
      user: admin
      password: secret
      server: lb.mydomain.com
      delegate_to: localhost

- name: Remove a utility license from the system
  bigiq_utility_license:
    license_key: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
    state: absent
    provider:
      user: admin
      password: secret
      server: lb.mydomain.com
      delegate_to: localhost
"

RETURN = r""
# only common fields returned
"

import time

from ansible.module_utils.basic import AnsibleModule

try:
    from library.module_utils.network.f5.bigiq import F5RestClient
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import AnsibleF5Parameters
    from library.module_utils.network.f5.common import f5_argument_spec
except ImportError:
    from ansible.module_utils.network.f5.bigiq import F5RestClient
    from ansible.module_utils.network.f5.common import F5ModuleError
    from ansible.module_utils.network.f5.common import AnsibleF5Parameters
    from ansible.module_utils.network.f5.common import f5_argument_spec


class Parameters(AnsibleF5Parameters):
    api_map = {
        'regKey': 'license_key'
    }
api_attributes = [
    'regKey'
]

returnables = [
    'license_key'
]

updatables = [
    'license_key'
]

def to_return(self):
    result = {}
    try:
        for returnable in self.returnables:
            result[returnable] = getattr(self, returnable)
            result = self._filter_params(result)
        except Exception:
            pass
    return result

class ApiParameters(Parameters):
    pass

class ModuleParameters(Parameters):
    pass

class Changes(Parameters):
    def to_return(self):
        result = {}
        try:
            for returnable in self.returnables:
                result[returnable] = getattr(self, returnable)
                result = self._filter_params(result)
            except Exception:
                pass
        return result

class UsableChanges(Changes):
    pass

class ReportableChanges(Changes):
    pass
@property
def license_key(self):
    return None

class Difference(object):
def __init__(self, want, have=None):
    self.want = want
    self.have = have
def compare(self, param):
    try:
        result = getattr(self, param)
        return result
    except AttributeError:
        return self.__default(param)
def __default(self, param):
    attr1 = getattr(self.want, param)
    try:
        attr2 = getattr(self.have, param)
        if attr1 != attr2:
            return attr1
    except AttributeError:
        return attr1
class ModuleManager(object):
def __init__(self, *args, **kwargs):
    self.module = kwargs.get('module', None)
    self.client = F5RestClient(**self.module.params)
    self.want = ModuleParameters(client=self.client, params=self.module.params)
    self.have = ApiParameters()
    self.changes = UsableChanges()
def _set_changed_options(self):
    changed = {}
    for key in Parameters.returnables:
        if getattr(self.want, key) is not None:
            changed[key] = getattr(self.want, key)
    if changed:
        self.changes = UsableChanges(params=changed)
def _update_changed_options(self):
    diff = Difference(self.want, self.have)
    updatables = Parameters.updatables
    changed = dict()
    for k in updatables:
change = diff.compare(k)
if change is None:
    continue
else:
    if isinstance(change, dict):
        changed.update(change)
    else:
        changed[k] = change

if changed:
    self.changes = UsableChanges(params=changed)
    return True
return False

def should_update(self):
    result = self._update_changed_options()
    if result:
        return True
    return False

def exec_module(self):
    changed = False
    result = dict()
    state = self.want.state

    if state == "present":
        changed = self.present()
    elif state == "absent":
        changed = self.absent()

    reportable = ReportableChanges(params=self.changes.to_return())
    changes = reportable.to_return()
    result.update(**changes)
    result.update(dict(changed=changed))
    self._announce_deprecations(result)
    return result

def _announce_deprecations(self, result):
    warnings = result.pop('__warnings', [])
    for warning in warnings:
        self.module.deprecate(
            msg=warning['msg'],
            version=warning['version']
        )

def present(self):
    if self.exists():
        return False
    else:
return self.create()

def exists(self):
    uri = "https://[{0}]:{1}/mgmt/cm/device/licensing/pool/utility/licenses/?$filter=regKey+eq+'{2}'".format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.license_key
    )
    resp = self.client.api.get(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if resp.status == 200 and response['totalItems'] == 0:
        return False
    elif 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp._content)
    return True

def remove(self):
    if self.module.check_mode:
        return True
    self.remove_from_device()
    self.wait_for_removal()
    if self.exists():
        raise F5ModuleError("Failed to delete the resource.")
    return True

def create(self):
    self._set_changed_options()
    if self.module.check_mode:
        return True
    if self.want.accept_eula is False:
        raise F5ModuleError(
            "To add a license, you must accept its EULA. Please see the module documentation for a link to this."
        )
    self.create_on_device()
    self.wait_for_initial_license_activation()
    self.wait_for_utility_license_activation()
    if not self.exists():
        raise F5ModuleError("Failed to activate the license.")
    return True
def create_on_device(self):
    params = self.changes.api_params()
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/initial-activation'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
    )

    params['name'] = self.want.license_key
    params['status'] = 'ACTIVATING_AUTOMATIC'

    resp = self.client.api.post(uri, json=params)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))

    if 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp._content)

def wait_for_removal(self):
    count = 0

    while count < 3:
        if not self.exists():
            count += 1
        else:
            count = 0
        time.sleep(1)

def wait_for_initial_license_activation(self):
    count = 0
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/initial-activation/{2}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.license_key,
    )

    while count < 3:
        resp = self.client.api.get(uri)
        try:
            response = resp.json()
        except ValueError as ex:
            raise F5ModuleError(str(ex))
if 'code' in response and response['code'] == 400:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp._content)

if response['status'] == 'READY':
    count += 1
elif response['status'] == 'ACTIVATING_AUTOMATIC_NEED_EULA_ACCEPT':
    uri = response['selfLink'].replace('https://localhost',
                                       'https://{0}:{1}'.format(
                                           self.client.provider['server'],
                                           self.client.provider['server_port']
                                       ))
    self.client.api.patch(uri, json=dict(
        status='ACTIVATING_AUTOMATIC_EULA_ACCEPTED',
        eulaText=response['eulaText']
    ))
elif response['status'] == 'ACTIVATION_FAILED':
    raise F5ModuleError(str(response['message']))
else:
    count = 0
    time.sleep(1)

def wait_for_utility_license_activation(self):
    count = 0
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.license_key
    )

    while count < 3:
        resp = self.client.api.get(uri)
        try:
            response = resp.json()
        except ValueError as ex:
            raise F5ModuleError(str(ex))

        if 'code' in response and response['code'] in [400, 401]:
            if 'message' in response:
                raise F5ModuleError(response['message'])
            else:
                raise F5ModuleError(resp._content)

        if response['status'] == 'READY':
count += 1
elif response['status'] == 'ACTIVATION_FAILED':
    raise F5ModuleError(str(response['message']))
else:
    count = 0
time.sleep(1)

def absent(self):
    if self.exists():
        return self.remove()
    return False

def remove_from_device(self):
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.license_key
    )

    resp = self.client.api.delete(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp._content)

class ArgumentSpec(object):
    def __init__(self):
        self.supports_check_mode = True
        argument_spec = dict(
            license_key=dict(required=True, no_log=True),
            accept_eula=dict(type='bool'),
            state=dict(
                default='present',
                choices=['present', 'absent']
            ),
        )
        self.argument_spec = {}
        self.argument_spec.update(f5_argument_spec)
        self.argument_spec.update(argument_spec)
        self.required_if = [ ]
def main():
    spec = ArgumentSpec()

    module = AnsibleModule(
        argument_spec=spec.argument_spec,
        supports_check_mode=spec.supports_check_mode,
        required_if=spec.required_if
    )

    client = F5RestClient(**module.params)

    try:
        mm = ModuleManager(module=module)
        results = mm.exec_module()
        module.exit_json(**results)
    except F5ModuleError as ex:
        module.fail_json(msg=str(ex))

if __name__ == '__main__':
    main()
options:
  pool:
    description:
      - The registration key pool to use.
    type: str
    required: True
  key:
    description:
      - The registration key that you want to assign from the pool.
    type: str
    required: True
  device:
    description:
      - When C(managed) is C(no), specifies the address, or hostname, where the BIG-IQ can reach the remote device to register.
      - When C(managed) is C(yes), specifies the managed device, or device UUID, that you want to register.
      - If C(managed) is C(yes), it is very important that you do not have more than one device with the same name. BIG-IQ internally recognizes devices by their ID, and therefore, this module's cannot guarantee that the correct device will be registered. The device returned is the device that will be used.
    type: str
    managed:
      description:
        - Whether the specified device is a managed or un-managed device.
      - When C(state) is C(present), this parameter is required.
      type: bool
    device_port:
      description:
        - Specifies the port of the remote device to connect to.
        - If this parameter is not specified, the default of C(443) will be used.
      type: int
      default: 443
    device_username:
      description:
        - The username used to connect to the remote device.
        - This username should be one that has sufficient privileges on the remote device to do licensing. Usually this is the C(Administrator) role.
        - When C(managed) is C(no), this parameter is required.
      type: str
    device_password:
      description:
        - The password of the C(device_username).
        - When C(managed) is C(no), this parameter is required.
      type: str
  state:
    description:
      - When C(present), ensures that the device is assigned the specified license.
- When C(absent), ensures the license is revokes from the remote device and freed
  on the BIG-IQ.

  type: str
  choices:
  - present
  - absent
  default: present
extends_documentation_fragment: f5
author:
  - Tim Rupp (@caphrim007)

EXAMPLES = r""n
- name: Register an unmanaged device
  bigiq_regkey_license_assignment:
    pool: my-regkey-pool
    key: XXXX-XXXX-XXXX-XXXX-XXXX
    device: 1.1.1.1
    managed: no
    device_username: admin
    device_password: secret
    state: present
    provider:
      user: admin
      password: secret
      server: lb.mydomain.com
    delegate_to: localhost

- name: Register a managed device, by name
  bigiq_regkey_license_assignment:
    pool: my-regkey-pool
    key: XXXX-XXXX-XXXX-XXXX-XXXX
    device: bigi1.foo.com
    managed: yes
    state: present
    provider:
      user: admin
      password: secret
      server: lb.mydomain.com
    delegate_to: localhost

- name: Register a managed device, by UUID
  bigiq_regkey_license_assignment:
    pool: my-regkey-pool
    key: XXXX-XXXX-XXXX-XXXX-XXXX
    device: 7141a063-7cf8-423f-9829-9d40599fa3e0
    managed: yes
    state: present
provider:
  user: admin
  password: secret
  server: lb.mydomain.com
  delegate_to: localhost

RETURN = r"
  # only common fields returned
"

import re
import time

from ansible.module_utils.basic import AnsibleModule

try:
  from library.module_utils.network.f5.bigiq import F5RestClient
  from library.module_utils.network.f5.common import F5ModuleError
  from library.module_utils.network.f5.common import AnsibleF5Parameters
  from library.module_utils.network.f5.common import f5_argument_spec
  from library.module_utils.network.f5.ipaddress import is_valid_ip
except ImportError:
  from ansible.module_utils.network.f5.bigiq import F5RestClient
  from ansible.module_utils.network.f5.common import F5ModuleError
  from ansible.module_utils.network.f5.common import AnsibleF5Parameters
  from ansible.module_utils.network.f5.common import f5_argument_spec
  from ansible.module_utils.network.f5.ipaddress import is_valid_ip

class Parameters(AnsibleF5Parameters):
  api_map = {
    'deviceReference': 'device_reference',
    'deviceAddress': 'device_address',
    'httpsPort': 'device_port'
  }

  api_attributes = [
    'deviceReference', 'deviceAddress', 'httpsPort', 'managed'
  ]

  returnables = [
    'device_address', 'device_reference', 'device_username', 'device_password',
    'device_port', 'managed'
  ]

  updatables = [
    'device_reference', 'device_address', 'device_username', 'device_password',
  ]
'device_port', 'managed'
]

def to_return(self):
    result = {}
    try:
        for returnable in self.returnables:
            result[returnable] = getattr(self, returnable)
            result = self._filter_params(result)
    except Exception:
        pass
    return result

class ApiParameters(Parameters):
    pass

class ModuleParameters(Parameters):
    @property
    def device_password(self):
        if self._values['device_password'] is None:
            return None
        return self._values['device_password']

    @property
    def device_username(self):
        if self._values['device_username'] is None:
            return None
        return self._values['device_username']

    @property
    def device_address(self):
        if self.device_is_address:
            return self._values['device']

    @property
    def device_port(self):
        if self._values['device_port'] is None:
            return None
        return int(self._values['device_port'])

    @property
    def device_is_address(self):
        if is_valid_ip(self.device):
            return True
        return False
@property
def device_is_id(self):
    pattern = r'[A-Za-z0-9]{8}-[A-Za-z0-9]{4}-[A-Za-z0-9]{4}-[A-Za-z0-9]{4}-[A-Za-z0-9]{12}'
    if re.match(pattern, self.device):
        return True
    return False

@property
def device_is_name(self):
    if not self.device_is_address and not self.device_is_id:
        return True
    return False

@property
def device_reference(self):
    if not self.managed:
        return None
    if self.device_is_address:
        # This range lookup is how you do lookups for single IP addresses. Weird.
        filter = "address+eq+'{0}...{0}'".format(self.device)
    elif self.device_is_name:
        filter = "hostname+eq+'{0}'".format(self.device)
    elif self.device_is_id:
        filter = "uuid+eq+'{0}'".format(self.device)
    else:
        raise F5ModuleError(
            "Unknown device format '{0}'".format(self.device)
        )

    uri = "https://{0}:{1}/mgmt/shared/resolver/device-groups/cm-bigip-allBigIpDevices/devices/?$filter={2}&$top=1".format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        filter
    )
    resp = self.client.api.get(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if resp.status == 200 and response['totalItems'] == 0:
        raise F5ModuleError(
            "No device with the specified address was found."
        )
    elif 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
    else:
raise F5ModuleError(resp._content)

id = response['items'][0]['uuid']
result = dict(
    link='https://localhost/mgmt/shared/resolver/device-groups/cm-bigip-allBigIpDevices/devices/{0}'.format(id)
)
return result

@property
def pool_id(self):
    filter = "(name eq '{0}')".format(self.pool)
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses?$filter={2}&$top=1'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        filter
    )
    resp = self.client.api.get(uri)
try:
    response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))
if resp.status == 200 and response['totalItems'] == 0:
    raise F5ModuleError("No pool with the specified name was found." )
elif 'code' in response and response['code'] == 400:
    if 'message' in response:
        raise F5ModuleError(response['message'])
else:
    raise F5ModuleError(resp._content)
return response['items'][0]['id']

@property
def member_id(self):
    if self.device_is_address:
        # This range lookup is how you do lookups for single IP addresses. Weird.
        filter = "deviceAddress+eq+'{0}...{0}'".format(self.device)
    elif self.device_is_name:
        filter = "deviceName+eq+'{0}'".format(self.device)
    elif self.device_is_id:
        filter = "deviceMachineId+eq+'{0}'".format(self.device)
    else:
        raise F5ModuleError("Unknown device format '{0}'".format(self.device))
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/2/offers/3/members/?$filter=4'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
    )
    resp = self.client.api.get(uri)
try:
    response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))
if resp.status == 200 and response['totalItems'] == 0:
    raise F5ModuleError("No member with the specified device was found." )
elif 'code' in response and response['code'] == 400:
    if 'message' in response:
        raise F5ModuleError(response['message'])
else:
    raise F5ModuleError(resp._content)
return response['items'][0]['id']
self.pool_id,
self.key,
filter
)
resp = self.client.api.get(uri)
try:
    response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))

if resp.status == 200 and response['totalItems'] == 0:
    return None
elif 'code' in response and response['code'] == 400:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp._content)
result = response['items'][0]['id']
return result

class Changes(Parameters):
    pass

class UsableChanges(Changes):
    @property
def device_port(self):
        if self._values['managed']:
            return None
        return self._values['device_port']

    @property
def device_username(self):
        if self._values['managed']:
            return None
        return self._values['device_username']

    @property
def device_password(self):
        if self._values['managed']:
            return None
        return self._values['device_password']

    @property
def device_reference(self):
        if not self._values['managed']:
            return None
return self._values['device_reference']

@property
def device_address(self):
    if self._values['managed']:
        return None
    return self._values['device_address']

@property
def managed(self):
    return None

class ReportableChanges(Changes):
    pass

class Difference(object):
    def __init__(self, want, have=None):
        self.want = want
        self.have = have

    def compare(self, param):
        try:
            result = getattr(self, param)
            return result
        except AttributeError:
            return self.__default(param)

    def __default(self, param):
        attr1 = getattr(self.want, param)
        try:
            attr2 = getattr(self.have, param)
            if attr1 != attr2:
                return attr1
        except AttributeError:
            return attr1

class ModuleManager(object):
    def __init__(self, *args, **kwargs):
        self.module = kwargs.get('module', None)
        self.client = F5RestClient(**self.module.params)
        self.want = ModuleParameters(params=self.module.params, client=self.client)
        self.have = ApiParameters()
        self.changes = UsableChanges()
changed = {}
for key in Parameters.returnables:
    if getattr(self.want, key) is not None:
        changed[key] = getattr(self.want, key)
if changed:
    self.changes = UsableChanges(params=changed)

def _update_changed_options(self):
    diff = Difference(self.want, self.have)
    updatables = Parameters.updatables
    changed = dict()
    for k in updatables:
        change = diff.compare(k)
        if change is None:
            continue
        else:
            if isinstance(change, dict):
                changed.update(change)
            else:
                changed[k] = change
    if changed:
        self.changes = UsableChanges(params=changed)
        return True
    return False

def should_update(self):
    result = self._update_changed_options()
    if result:
        return True
    return False

def exec_module(self):
    changed = False
    result = dict()
    state = self.want.state
    if state == "present":
        changed = self.present()
    elif state == "absent":
        changed = self.absent()
    reportable = ReportableChanges(params=self.changes.to_return())
    changes = reportable.to_return()
    result.update(**changes)
    result.update(dict(changed=changed))
    self._announce_deprecations(result)
    return result
def _announce_deprecations(self, result):
    warnings = result.pop('__warnings', [])
    for warning in warnings:
        self.module.deprecate(
            msg=warning['msg'],
            version=warning['version']
        )

def present(self):
    if self.exists():
        return False
    return self.create()

def exists(self):
    if self.want.member_id is None:
        return False
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}/members/{4}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.pool_id,
        self.want.key,
        self.want.member_id
    )
    resp = self.client.api.get(uri)
    if resp.status == 200:
        return True
    return False

def remove(self):
    self._set_changed_options()
    if self.module.check_mode:
        return True
    self.remove_from_device()
    if self.exists():
        raise F5ModuleError("Failed to delete the resource.")
    # Artificial sleeping to wait for remote licensing (on BIG-IP) to complete
    #
    # This should be something that BIG-IQ can do natively in 6.1-ish time.
    time.sleep(60)
    return True

def create(self):
    self._set_changed_options()
    if not self.want.managed:
        if self.want.device_username is None:
            raise F5ModuleError("You must specify a 'device_username' when working with unmanaged devices."
if self.want.device_password is None:
    raise F5ModuleError(
        "You must specify a 'device_password' when working with unmanaged devices."
    )
if self.module.check_mode:
    return True
self.create_on_device()
if not self.exists():
    raise F5ModuleError(
        "Failed to license the remote device."
    )
self.wait_for_device_to_be_licensed()

# Artificial sleeping to wait for remote licensing (on BIG-IP) to complete
#
# This should be something that BIG-IQ can do natively in 6.1-ish time.
time.sleep(60)
return True

def create_on_device(self):
    params = self.changes.api_params()
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}/members/'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.pool_id,
        self.want.key
    )
    if not self.want.managed:
        params['username'] = self.want.device_username
        params['password'] = self.want.device_password

    resp = self.client.api.post(uri, json=params)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))

    if 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp.content)

    def wait_for_device_to_be_licensed(self):
        count = 0
        uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}/members/{4}'.format(
            self.client.provider['server'],
            self.want.device_username,
            self.want.device_password
        )

    def on_device(self):
        params = self.changes.api_params()
        uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}/members/'.format(
            self.client.provider['server'],
            self.client.provider['server_port'],
            self.want.pool_id,
            self.want.key
        )
        if not self.want.managed:
            params['username'] = self.want.device_username
            params['password'] = self.want.device_password

        resp = self.client.api.post(uri, json=params)
        try:
            response = resp.json()
        except ValueError as ex:
            raise F5ModuleError(str(ex))

        if 'code' in response and response['code'] == 400:
            if 'message' in response:
                raise F5ModuleError(response['message'])
            else:
                raise F5ModuleError(resp.content)
self.client.provider['server_port'],
self.want.pool_id,
self.want.key,
self.want.member_id
)
while count < 3:
    resp = self.client.api.get(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp.content)
    if response['status'] == 'LICENSED':
        count += 1
    else:
        count = 0

def absent(self):
    if self.exists():
        return self.remove()
    return False

def remove_from_device(self):
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}/members/{4}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.pool_id,
        self.want.key,
        self.want.member_id
    )
    params = {}
    if not self.want.managed:
        params.update(self.changes.api_params())
        params['id'] = self.want.member_id
        params['username'] = self.want.device_username
        params['password'] = self.want.device_password
        self.client.api.delete(uri, json=params)

class ArgumentSpec(object):
    def __init__(self):
        self.supports_check_mode = True
        argument_spec = dict(

pool=dict(required=True),
key=dict(required=True, no_log=True),
device=dict(required=True),
managed=dict(type='bool'),
device_port=dict(type='int', default=443),
device_username=dict(no_log=True),
device_password=dict(no_log=True),
state=dict(default='present', choices=['absent', 'present'])
)
self.argument_spec = {}
self.argument_spec.update(f5_argument_spec)
self.argument_spec.update(argument_spec)
self.required_if = [
    ['state', 'present', ['key', 'managed']],
    ['managed', False, ['device', 'device_username', 'device_password']],
    ['managed', True, ['device']]
]

def main():
    spec = ArgumentSpec()

    module = AnsibleModule(
        argument_spec=spec.argument_spec,
        supports_check_mode=spec.supports_check_mode,
        required_if=spec.required_if
    )

    try:
        mm = ModuleManager(module=module)
        results = mm.exec_module()
        module.exit_json(**results)
    except F5ModuleError as ex:
        module.fail_json(msg=str(ex))

if __name__ == '__main__':
    main()

#!/usr/bin/python
# -*- coding: utf-8 -*-
#
# Copyright: (c) 2017, F5 Networks Inc.
# GNU General Public License v3.0 (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type
DOCUMENTATION = r""
---
module: bigiq_regkey_license
short_description: Manages licenses in a BIG-IQ registration key pool
description:
- Manages licenses in a BIG-IQ registration key pool.
version_added: 2.5
options:
  regkey_pool:
    description:
    - The registration key pool that you want to place the license in.
    - You must be mindful to name your registration pools unique names. While
      BIG-IQ does not require this, this module does. If you do not do this,
      the behavior of the module is undefined and you may end up putting
      licenses in the wrong registration key pool.
    type: str
    required: True
  license_key:
    description:
    - The license key to put in the pool.
    type: str
    required: True
description:
  accept_eula:
    description:
    - A key that signifies that you accept the F5 EULA for this license.
    - A copy of the EULA can be found here https://askf5.f5.com/csp/article/K12902
    - This is required when C(state) is C(present).
    type: bool
state:
  description:
  - The state of the regkey license in the pool on the system.
  - When C(present), guarantees that the license exists in the pool.
  - When C(absent), removes the license from the pool.
  type: str
  choices:
    - absent
    - present
  default: present
requirements:
  - BIG-IQ >= 5.3.0
extends_documentation_fragment: f5
author:
- Tim Rupp (@caphrim007)

EXAMPLES = r""
- name: Add a registration key license to a pool
  bigiq_regkey_license:
    regkey_pool: foo-pool
    license_key: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
    accept_eula: yes
    provider:
      password: secret
      server: lb.mydomain.com
      user: admin
    delegate_to: localhost

- name: Remove a registration key license from a pool
  bigiq_regkey_license:
    regkey_pool: foo-pool
    license_key: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
    state: absent
    provider:
      password: secret
      server: lb.mydomain.com
      user: admin
    delegate_to: localhost
""

RETURN = r""
description:
  description: The new description of the license key.
  returned: changed
  type: str
  sample: My license for BIG-IP 1
""

import time

from ansible.module_utils.basic import AnsibleModule
try:
    from library.module_utils.network.f5.bigiq import F5RestClient
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import AnsibleF5Parameters
    from library.module_utils.network.f5.common import f5_argument_spec
except ImportError:
    from ansible.module_utils.network.f5.bigiq import F5RestClient
from ansible.module_utils.network.f5.common import F5ModuleError
from ansible.module_utils.network.f5.common import AnsibleF5Parameters
from ansible.module_utils.network.f5.common import f5_argument_spec

class Parameters(AnsibleF5Parameters):
    api_map = {
        'regKey': 'license_key'
    }
    api_attributes = [
        'regKey', 'description'
    ]
    returnables = [
        'description'
    ]
    updatables = [
        'description'
    ]
    def to_return(self):
        result = {}
        try:
            for returnable in self.returnables:
                result[returnable] = getattr(self, returnable)
            result = self._filter_params(result)
        except Exception:
            pass
        return result

class ApiParameters(Parameters):
    pass

class ModuleParameters(Parameters):
    @property
def regkey_pool_uuid(self):
        if self._values['regkey_pool_uuid']:
            return self._values['regkey_pool_uuid']
        collection = self.read_current_from_device()
        resource = next((x for x in collection if x.name == self.regkey_pool), None)
        if resource is None:
            raise F5ModuleError("Could not find the specified regkey pool.")
        self._values['regkey_pool_uuid'] = resource.id
        return resource.id
def read_current_from_device(self):
    uri = "https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses".format(
    self.client.provider['server'],
    self.client.provider['server_port'],
    )
    resp = self.client.api.get(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))

    if 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp.content)
    if 'items' not in response:
        return []
    result = [ApiParameters(params=r) for r in response['items']]
    return result

class Changes(Parameters):
    def to_return(self):
        result = {}
        try:
            for returnable in self.returnables:
                result[returnable] = getattr(self, returnable)
            result = self._filter_params(result)
        except Exception:
            pass
        return result

class UsableChanges(Changes):
    pass

class ReportableChanges(Changes):
    pass

class Difference(object):
    def __init__(self, want, have=None):
        self.want = want
        self.have = have
def compare(self, param):
    try:
        result = getattr(self, param)
        return result
    except AttributeError:
        return self.__default(param)

def __default(self, param):
    attr1 = getattr(self.want, param)
    try:
        attr2 = getattr(self.have, param)
        if attr1 != attr2:
            return attr1
    except AttributeError:
        return attr1

class ModuleManager(object):
    def __init__(self, *args, **kwargs):
        self.module = kwargs.get('module', None)
        self.client = F5RestClient(**self.module.params)
        self.want = ModuleParameters(client=self.client, params=self.module.params)
        self.have = ApiParameters()
        self.changes = UsableChanges()

    def _set_changed_options(self):
        changed = {}
        for key in Parameters.returnables:
            if getattr(self.want, key) is not None:
                changed[key] = getattr(self.want, key)
        if changed:
            self.changes = UsableChanges(params=changed)

    def _update_changed_options(self):
        diff = Difference(self.want, self.have)
        updatables = Parameters.updatables
        changed = dict()
        for k in updatables:
            change = diff.compare(k)
            if change is None:
                continue
            else:
                if isinstance(change, dict):
                    changed.update(change)
                else:
                    changed[k] = change
        if changed:
            self.changes = UsableChanges(params=changed)
return True
return False

def should_update(self):
    result = self._update_changed_options()
    if result:
        return True
    return False

def exec_module(self):
    changed = False
    result = dict()
    state = self.want.state

    if state == "present":
        changed = self.present()
    elif state == "absent":
        changed = self.absent()

    reportable = ReportableChanges(params=self.changes.to_return())
    changes = reportable.to_return()
    result.update(**changes)
    result.update(dict(changed=changed))
    self._announce_deprecations(result)
    return result

def _announce_deprecations(self, result):
    warnings = result.pop('__warnings', [])
    for warning in warnings:
        self.module.deprecate(
            msg=warning['msg'],
            version=warning['version']
        )

def present(self):
    if self.exists():
        return self.update()
    else:
        return self.create()

def exists(self):
    uri = "https://(0):[1]/mgmt/cm/device/licensing/pool/regkey/licenses/[2]/offerings/[3]".format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.regkey_pool_uuid,
        self.want.license_key
    )
    resp = self.client.api.get(uri)
try:
    response = resp.json()
except ValueError:
    return False
if resp.status == 404 or 'code' in response and response['code'] == 404:
    return False
return True

def update(self):
    self.have = self.read_current_from_device()
    if not self.should_update():
        return False
    if self.module.check_mode:
        return True
    self.update_on_device()
    return True

def remove(self):
    if self.module.check_mode:
        return True
    self.remove_from_device()
    if self.exists():
        raise F5ModuleError("Failed to delete the resource.")
    return True

def create(self):
    self._set_changed_options()
    if self.module.check_mode:
        return True
    if self.want.accept_eula is False:
        raise F5ModuleError("To add a license, you must accept its EULA. Please see the module documentation for a link to this."
    )
    self.create_on_device()
    return True

def create_on_device(self):
    params = self.want.api_params()
    params['name'] = self.want.name
    params['status'] = 'ACTIVATING_AUTOMATIC'
    uri = "https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings".format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.regkey_pool_uuid,
    )
    resp = self.client.api.post(uri, json=params)
    try:
        response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))

if 'code' in response and response['code'] in [400, 403]:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp.content)

for x in range(60):
    resource = self.read_current_from_device()
    if resource.status == 'READY':
        break
    elif resource.status == 'ACTIVATING_AUTOMATIC_NEED_EULA_ACCEPT':
        params = dict(
            status='ACTIVATING_AUTOMATIC_EULA_ACCEPTED',
            eulaText=resource.eulaText
        )
        uri = "https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}".format(
            self.client.provider['server'],
            self.client.provider['server_port'],
            self.want.regkey_pool_uuid,
            self.want.license_key
        )
        resp = self.client.api.patch(uri, json=params)
        try:
            response = resp.json()
        except ValueError as ex:
            raise F5ModuleError(str(ex))
        if 'code' in response and response['code'] == 400:
            if 'message' in response:
                raise F5ModuleError(response['message'])
            else:
                raise F5ModuleError(resp.content)
        elif resource.status == 'ACTIVATION_FAILED':
            raise F5ModuleError(str(resource.message))
        time.sleep(1)

def update_on_device(self):
    params = self.changes.api_params()
    uri = "https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}".format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.regkey_pool_uuid,
        self.want.license_key
    )
    resp = self.client.api.patch(uri, json=params)
try:
    response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))

if 'code' in response and response['code'] == 400:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp.content)

def absent(self):
    if self.exists():
        return self.remove()
    return False

def remove_from_device(self):
    uri = "https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}".format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.regkey_pool_uuid,
        self.want.license_key
    )
    resp = self.client.api.delete(uri)
    if resp.status == 200:
        return True

def read_current_from_device(self):
    uri = "https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}".format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.regkey_pool_uuid,
        self.want.license_key
    )
    resp = self.client.api.get(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp.content)
    return ApiParameters(params=response)
class ArgumentSpec(object):
    def __init__(self):
        self.supports_check_mode = True
        argument_spec = dict(
            regkey_pool=dict(required=True),
            license_key=dict(required=True, no_log=True),
            description=dict(),
            accept_eula=dict(type='bool'),
            state=dict(
                default='present',
                choices=['present', 'absent']
            ),
        )
        self.argument_spec = {}
        self.argument_spec.update(f5_argument_spec)
        self.argument_spec.update(argument_spec)
        self.required_if = [
            ['state', 'present', ['accept_eula']]
        ]

def main():
    spec = ArgumentSpec()

    module = AnsibleModule(
        argument_spec=spec.argument_spec,
        supports_check_mode=spec.supports_check_mode,
        required_if=spec.required_if,
    )

    try:
        mm = ModuleManager(module=module)
        results = mm.exec_module()
        module.exit_json(**results)
    except F5ModuleError as ex:
        module.fail_json(msg=str(ex))

if __name__ == '__main__':
    main()
#!/usr/bin/python
# -*- coding: utf-8 -*-
#
# Copyright: (c) 2017, F5 Networks Inc.
# GNU General Public License v3.0 (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type
ANSIBLE_METADATA = {'metadata_version': '1.1',
                     'status': ['preview'],
                     'supported_by': 'certified'}

DOCUMENTATION = 'r''
---
module: bigiq_utility_license_assignment
short_description: Manage utility license assignment on BIG-IPs from a BIG-IQ
description:
  - Manages the assignment of utility licenses on a BIG-IQ. Assignment means that
    the license is assigned to a BIG-IP, or, it needs to be assigned to a BIG-IP.
    Additionally, this module supported revoking the assignments from BIG-IP devices.
version_added: 2.7
options:
  unit_of_measure:
    description:
      - Sets the rate at which this license usage is billed.
      - Depending on your license, you may have different units of measures
        available to you. If a particular unit is not available to you, the module
        will notify you at licensing time.
    type: str
    choices:
      - hourly
      - daily
      - monthly
      - yearly
    default: hourly
  key:
    description:
      - The registration key that you want choose an offering from.
    type: str
    required: True
  offering:
    description:
      - Name of the license offering to assign to the device.
    type: str
  device:
    description:
      - When C(managed) is C(no), specifies the address, or hostname, where the BIG-IQ
        can reach the remote device to register.
      - When C(managed) is C(yes), specifies the managed device, or device UUID, that
        you want to register.
      - If C(managed) is C(yes), it is very important that you do not have more than
        one device with the same name. BIG-IQ internally recognizes devices by their ID,
        and therefore, this module's cannot guarantee that the correct device will be
        registered. The device returned is the device that will be used.'
type: str
managed:
description:
  - Whether the specified device is a managed or un-managed device.
  - When C(state) is C(present), this parameter is required.
type: bool
device_port:
description:
  - Specifies the port of the remote device to connect to.
  - If this parameter is not specified, the default of C(443) will be used.
type: int
default: 443
device_username:
description:
  - The username used to connect to the remote device.
  - This username should be one that has sufficient privileges on the remote device to do licensing. Usually this is the C(Administrator) role.
  - When C(managed) is C(no), this parameter is required.
type: str
device_password:
description:
  - The password of the C(device_username).
  - When C(managed) is C(no), this parameter is required.
type: str
state:
description:
  - When C(present), ensures that the device is assigned the specified license.
  - When C(absent), ensures the license is revoked from the remote device and freed on the BIG-IQ.
type: str
choices:
  - present
  - absent
default: present
extends_documentation_fragment: f5
author:
  - Tim Rupp (@caphrim007)
""

EXAMPLES = r''
- name: Register an unmanaged device
  bigiq_utility_license_assignment:
    key: XXXX-XXXX-XXXX-XXXX-XXXX
    offering: F5-BIG-MSP-AFM-10G-LIC
    device: 1.1.1.1
    managed: no
    device_username: admin
    device_password: secret
state: present
provider:
  password: secret
  server: lb.mydomain.com
  user: admin
delegate_to: localhost

- name: Register a managed device, by name
  bigiq_utility_license_assignment:
    key: XXXX-XXXX-XXXX-XXXX-XXXX
    offering: F5-BIG-MSP-AFM-10G-LIC
    device: bigi1.foo.com
    managed: yes
    state: present
    provider:
      password: secret
      server: lb.mydomain.com
      user: admin
delegate_to: localhost

- name: Register a managed device, by UUID
  bigiq_utility_license_assignment:
    key: XXXX-XXXX-XXXX-XXXX-XXXX
    offering: F5-BIG-MSP-AFM-10G-LIC
    device: 7141a063-7cf8-423f-9829-9d40599fa3e0
    managed: yes
    state: present
    provider:
      password: secret
      server: lb.mydomain.com
      user: admin
delegate_to: localhost

RETURN = r""
# only common fields returned
""

import re
from ansible.module_utils.basic import AnsibleModule

try:
  from library.module_utils.network.f5.bigiq import F5RestClient
  from library.module_utils.network.f5.common import F5ModuleError
  from library.module_utils.network.f5.common import AnsibleF5Parameters
  from library.module_utils.network.f5.common import f5_argument_spec
  from library.module_utils.network.f5.ipaddress import is_valid_ip
except ImportError:
    from ansible.module_utils.network.f5.bigiq import F5RestClient
    from ansible.module_utils.network.f5.common import F5ModuleError
    from ansible.module_utils.network.f5.common import AnsibleF5Parameters
    from ansible.module_utils.network.f5.common import f5_argument_spec
    from ansible.module_utils.network.f5.ipaddress import is_valid_ip
    
    class Parameters(AnsibleF5Parameters):
        api_map = {
            'deviceReference': 'device_reference',
            'deviceAddress': 'device_address',
            'httpsPort': 'device_port',
            'unitOfMeasure': 'unit_of_measure'
        }

        api_attributes = [
            'deviceReference', 'deviceAddress', 'httpsPort', 'managed', 'unitOfMeasure'
        ]

        returnables = [
            'device_address', 'device_reference', 'device_username', 'device_password',
            'device_port', 'managed', 'unit_of_measure'
        ]

        updatables = [
            'device_reference', 'device_address', 'device_username', 'device_password',
            'device_port', 'managed', 'unit_of_measure'
        ]

        def to_return(self):
            result = {}
            try:
                for returnable in self.returnables:
                    result[returnable] = getattr(self, returnable)
                    result = self._filter_params(result)
            except Exception:
                pass
            return result

    class ApiParameters(Parameters):
        pass

    class ModuleParameters(Parameters):
        @property
def device_password(self):
            pass

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    110
if self._values['device_password'] is None:
    return None
return self._values['device_password']

@property
def device_username(self):
    if self._values['device_username'] is None:
        return None
    return self._values['device_username']

@property
def device_address(self):
    if self.device_is_address:
        return self._values['device']

@property
def device_port(self):
    if self._values['device_port'] is None:
        return None
    return int(self._values['device_port'])

@property
def device_is_address(self):
    if is_valid_ip(self.device):
        return True
    return False

@property
def device_is_id(self):
    pattern = r'[A-Za-z0-9]{8}-[A-Za-z0-9]{4}-[A-Za-z0-9]{4}-[A-Za-z0-9]{4}-[A-Za-z0-9]{12}'
    if re.match(pattern, self.device):
        return True
    return False

@property
def device_is_name(self):
    if not self.device_is_address and not self.device_is_id:
        return True
    return False

@property
def device_reference(self):
    if not self.managed:
        return None
    if self.device_is_address:
        # This range lookup is how you do lookups for single IP addresses. Weird.
        filter = "address+eq+'{0}...{0}'".format(self.device)
        #
        # elif self.device_is_name:
filter = "hostname+eq+'{0}'".format(self.device)
elif self.device_is_id:
    filter = "uuid+eq+'{0}'".format(self.device)
else:
    raise F5ModuleError("Unknown device format '{0}'".format(self.device))

uri = "https://{0}:{1}/mgmt/shared/resolver/device-groups/cm-bigip-allBigIpDevices/devices/?$filter={2}&$top=1".format(
    self.client.provider['server'],
    self.client.provider['server_port'],
    filter
)
resp = self.client.api.get(uri)
try:
    response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))
if resp.status == 200 and response['totalItems'] == 0:
    raise F5ModuleError("No device with the specified address was found." )
elif 'code' in response and response['code'] == 400:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp._content)

id = response['items'][0]['uuid']
result = dict(
    link='https://localhost/mgmt/shared/resolver/device-groups/cm-bigip-allBigIpDevices/devices/{0}'.format(id)
)
return result

@property
def offering_id(self):
    filter = "(name+eq+'{0}')".format(self.offering)

uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}/offerings?$filter={3}&$top=1'.format(
    self.client.provider['server'],
    self.client.provider['server_port'],
    self.key,
    filter
)
resp = self.client.api.get(uri)
try:
    response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))
if resp.status == 200 and response['totalItems'] == 0:
    raise F5ModuleError(
        "No offering with the specified name was found."
    )
elif 'code' in response and response['code'] == 400:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp._content)
return response['items'][0]['id']

@property
def member_id(self):
    if self.device_is_address:
        # This range lookup is how you do lookups for single IP addresses. Weird.
        filter = "deviceAddress+eq+'{0}...{0}'".format(self.device)
    elif self.device_is_name:
        filter = "deviceName+eq+'{0}'".format(self.device)
    elif self.device_is_id:
        filter = "deviceMachineId+eq+'{0}'".format(self.device)
    else:
        raise F5ModuleError(
            "Unknown device format '{0}'".format(self.device)
        )
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}/offerings/{3}/members/?$filter={4}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.key,
        self.offering_id,
        filter
    )
    resp = self.client.api.get(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if resp.status == 200 and response['totalItems'] == 0:
        return None
    elif 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp._content)
    result = response['items'][0]['id']
    return result
class Changes(Parameters):
    pass

class UsableChanges(Changes):
    @property
    def device_port(self):
        if self._values['managed']:
            return None
        return self._values['device_port']

    @property
    def device_username(self):
        if self._values['managed']:
            return None
        return self._values['device_username']

    @property
    def device_password(self):
        if self._values['managed']:
            return None
        return self._values['device_password']

    @property
    def device_reference(self):
        if not self._values['managed']:
            return None
        return self._values['device_reference']

    @property
    def managed(self):
        return None

class ReportableChanges(Changes):
    pass

class Difference(object):
    def __init__(self, want, have=None):
        self.want = want
self.have = have

def compare(self, param):
    try:
        result = getattr(self, param)
        return result
    except AttributeError:
        return self.__default(param)

def __default(self, param):
    attr1 = getattr(self.want, param)
    try:
        attr2 = getattr(self.have, param)
        if attr1 != attr2:
            return attr1
    except AttributeError:
        return attr1

class ModuleManager(object):
    def __init__(self, *args, **kwargs):
        self.module = kwargs.get('module', None)
        self.client = F5RestClient(**self.module.params)
        self.want = ModuleParameters(params=self.module.params, client=self.client)
        self.have = ApiParameters()
        self.changes = UsableChanges()

    def _set_changed_options(self):
        changed = {}
        for key in Parameters.returnables:
            if getattr(self.want, key) is not None:
                changed[key] = getattr(self.want, key)
        if changed:
            self.changes = Changes(params=changed)

    def _update_changed_options(self):
        diff = Difference(self.want, self.have)
        updatables = Parameters.updatables
        changed = dict()
        for k in updatables:
            change = diff.compare(k)
            if change is None:
                continue
            else:
                if isinstance(change, dict):
                    changed.update(change)
                else:
                    changed[k] = change

            changed = dict()
if changed:
    self.changes = Changes(params=changed)
    return True
return False

def should_update(self):
    result = self._update_changed_options()
    if result:
        return True
    return False

def exec_module(self):
    changed = False
    result = dict()
    state = self.want.state

    if state == "present":
        changed = self.present()
    elif state == "absent":
        changed = self.absent()

    reportable = ReportableChanges(params=self.changes.to_return())
    changes = reportable.to_return()
    result.update(**changes)
    result.update(dict(changed=changed))
    self._announce_deprecations(result)
    return result

def _announce_deprecations(self, result):
    warnings = result.pop('__warnings', [])
    for warning in warnings:
        self.module.deprecate(  
            msg=warning['msg'],  
            version=warning['version']  
        )

def present(self):
    if self.exists():
        return False
    return self.create()

def exists(self):
    if self.want.member_id is None:
        return False
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}/offerings/{3}/members/{4}'.format(  
        self.client.provider['server'],  
        self.client.provider['server_port'],  
        self.want.key,  
    )
def remove(self):
    self._set_changed_options()
    if self.module.check_mode:
        return True
    self.remove_from_device()
    if self.exists():
        raise F5ModuleError("Failed to delete the resource.")
    return True

def create(self):
    self._set_changed_options()
    if not self.want.managed:
        if self.want.device_username is None:
            raise F5ModuleError(
                "You must specify a 'device_username' when working with unmanaged devices."
            )
        if self.want.device_password is None:
            raise F5ModuleError(
                "You must specify a 'device_password' when working with unmanaged devices."
            )
    if self.module.check_mode:
        return True
    self.create_on_device()
    if not self.exists():
        raise F5ModuleError(
            "Failed to license the remote device."
        )
    self.wait_for_device_to_be_licensed()
    return True

def create_on_device(self):
    params = self.changes.api_params()
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}/offerings/{3}/members/'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.key,
        self.want.offering_id,
    )

    if not self.want.managed:
params['username'] = self.want.device_username
params['password'] = self.want.device_password

resp = self.client.api.post(uri, json=params)
try:
    response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))

if 'code' in response and response['code'] == 400:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp.content)

def wait_for_device_to_be_licensed(self):
    count = 0
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}/offerings/{3}/members/{4}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.key,
        self.want.offering_id,
        self.want.member_id,
    )
    while count < 3:
        resp = self.client.api.get(uri)
        try:
            response = resp.json()
        except ValueError as ex:
            raise F5ModuleError(str(ex))
        if 'code' in response and response['code'] == 400:
            if 'message' in response:
                raise F5ModuleError(response['message'])
            else:
                raise F5ModuleError(resp.content)
        if response['status'] == 'LICENSED':
            count += 1
        else:
            count = 0

def absent(self):
    if self.exists():
        return self.remove()
    return False

def remove_from_device(self):
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}/offerings/{3}/members/{4}'.format( 

self.client.provider['server'],
self.client.provider['server_port'],
self.want.key,
self.want.offering_id,
self.want.member_id
)

params = {}
if not self.want.managed:
    params.update(self.changes.api_params())
params['id'] = self.want.member_id
params['username'] = self.want.device_username
params['password'] = self.want.device_password
self.client.api.delete(uri, json=params)

class ArgumentSpec(object):
    def __init__(self):
        self.supports_check_mode = True
        argument_spec = dict(
            offering=dict(required=True),
            unit_of_measure=dict(
                default='hourly',
                choices=[
                    'hourly', 'daily', 'monthly', 'yearly'
                ]
            ),
            key=dict(required=True, no_log=True),
            device=dict(required=True),
            managed=dict(type='bool'),
            device_port=dict(type='int', default=443),
            device_username=dict(no_log=True),
            device_password=dict(no_log=True),
            state=dict(default='present', choices=['absent', 'present'])
        )

        self.argument_spec = {}
        self.argument_spec.update(f5_argument_spec)
        self.argument_spec.update(argument_spec)
        self.required_if = [
            ['state', 'present', ['key', 'managed']],
            ['managed', False, ['device', 'device_username', 'device_password']],
            ['managed', True, ['device']]  
        ]

    def main():
        spec = ArgumentSpec()

        module = AnsibleModule(  

argument_spec=spec.argument_spec,
supports_check_mode=spec.supports_check_mode,
required_if=spec.required_if
)

try:
    mm = ModuleManager(module=module)
    results = mm.exec_module()
    module.exit_json(**results)
except F5ModuleError as ex:
    module.fail_json(msg=str(ex))

if __name__ == '__main__':
    main()
#!/usr/bin/python
# (c) 2018-2019, NetApp, Inc
# GNU General Public License v3.0+ (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
    'status': ['preview'],
    'supported_by': 'certified'}

DOCUMENTATION = ''

module: na_ontap_license

short_description: NetApp ONTAP protocol and feature licenses
extends_documentation_fragment:
    - netapp.na_ontap
version_added: '2.6'
author: NetApp Ansible Team (@carchi8py) <ng-ansibleteam@netapp.com>

description:
- Add or remove licenses on NetApp ONTAP.

options:
state:
    description:
    - Whether the specified license should exist or not.
    choices: ['present', 'absent']
default: present
remove_unused:
description:
- Remove licenses that have no controller affiliation in the cluster.
type: bool

remove_expired:
description:
- Remove licenses that have expired in the cluster.
type: bool

serial_number:
description:
Serial number of the node associated with the license.
This parameter is used primarily when removing license for a specific service.

license_names:
description:
- List of license-names to delete.
suboptions:
  base:
    description:
    - Cluster Base License
  nfs:
    description:
    - NFS License
  cifs:
    description:
    - CIFS License
  iscsi:
    description:
    - iSCSI License
  fcp:
    description:
    - FCP License
  cdmi:
    description:
    - CDMI License
  snaprestore:
    description:
    - SnapRestore License
  snapmirror:
    description:
    - SnapMirror License
  flexclone:
    description:
    - FlexClone License
  snapvault:
description:
- SnapVault License

snaplock:
description:
- SnapLock License

snapmanagersuite:
description:
- SnapManagerSuite License

snapprotectapps:
description:
- SnapProtectApp License

v_storageattach:
description:
- Virtual Attached Storage License

license_codes:
description:
- List of license codes to be added.

EXAMPLES = ""
- name: Add licenses
  na_ontap_license:
    state: present
    hostname: "{{ netapp_hostname }}"
    username: "{{ netapp_username }}"
    password: "{{ netapp_password }}"
    serial_number: ""#""
    license_codes: CODE1,CODE2

- name: Remove licenses
  na_ontap_license:
    state: absent
    hostname: "{{ netapp_hostname }}"
    username: "{{ netapp_username }}"
    password: "{{ netapp_password }}"
    remove_unused: false
    remove_expired: true
    serial_number: ""#"
    license_names: nfs,cifs

RETURN = ""

import traceback
from ansible.module_utils.basic import AnsibleModule
from ansible.module_utils._text import to_native
import ansible.module_utils.netapp as netapp_utils
HAS_NETAPP_LIB = netapp_utils.has_netapp_lib()

def local_cmp(a, b):
    '''
    compares with only values and not keys, keys should be the same for both dicts
    :param a: dict 1
    :param b: dict 2
    :return: difference of values in both dicts
    '''
    diff = [key for key in a if a[key] != b[key]]
    return len(diff)

class NetAppOntapLicense(object):
    '''ONTAP license class'''
    def __init__(self):
        self.argument_spec = netapp_utils.na_ontap_host_argument_spec()
        self.argument_spec.update(dict(
            state=dict(required=False, choices=['present', 'absent'], default='present'),
            serial_number=dict(required=False, type='str'),
            remove_unused=dict(default=None, type='bool'),
            remove_expired=dict(default=None, type='bool'),
            license_codes=dict(default=None, type='list'),
            license_names=dict(default=None, type='list'),
        ))
        self.module = AnsibleModule(
            argument_spec=self.argument_spec,
            supports_check_mode=False,
            required_if=[
                ('state', 'absent', ['serial_number', 'license_names'])
            ]
        )
        parameters = self.module.params
        # set up state variables
        self.state = parameters['state']
        self.serial_number = parameters['serial_number']
        self.remove_unused = parameters['remove_unused']
        self.remove_expired = parameters['remove_expired']
        self.license_codes = parameters['license_codes']
        self.license_names = parameters['license_names']
if HAS_NETAPP_LIB is False:
    self.module.fail_json(
        msg="the python NetApp-Lib module is required")
else:
    self.server = netapp_utils.setup_na_ontap_zapi(module=self.module)

def get_licensing_status(self):
    
    Check licensing status
    
    :return: package (key) and licensing status (value)
    :rtype: dict
    
    license_status = netapp_utils.zapi.NaElement('license-v2-status-list-info')
    result = None
    try:
        result = self.server.invoke_successfully(license_status,
            enable_tunneling=False)
    except netapp_utils.zapi.NaApiError as error:
        self.module.fail_json(msg="Error checking license status: %s" %
            to_native(error), exception=traceback.format_exc())
    return_dictionary = {}
    license_v2_status = result.get_child_by_name('license-v2-status')
    if license_v2_status:
        for license_v2_status_info in license_v2_status.get_children():
            package = license_v2_status_info.get_child_content('package')
            status = license_v2_status_info.get_child_content('method')
            return_dictionary[package] = status
    return return_dictionary

def remove_licenses(self, package_name):
    
    Remove requested licenses
    
    :param:
    :package_name: Name of the license to be deleted
    
    license_delete = netapp_utils.zapi.NaElement('license-v2-delete')
    license_delete.add_new_child('serial-number', self.serial_number)
    license_delete.add_new_child('package', package_name)
    try:
        self.server.invoke_successfully(license_delete,
            enable_tunneling=False)
    except netapp_utils.zapi.NaApiError as error:
# Error 15661 - Object not found
if to_native(error.code) == "15661":
    return False
else:
    self.module.fail_json(msg="Error removing license %s" %
    to_native(error), exception=traceback.format_exc())

def remove_unused_licenses(self):
    """
    Remove unused licenses
    """
    remove_unused = netapp_utils.zapi.NaElement('license-v2-delete-unused')
    try:
        self.server.invoke_successfully(remove_unused,
        enable_tunneling=False)
    except netapp_utils.zapi.NaApiError as error:
        self.module.fail_json(msg="Error removing unused licenses: %s" %
        to_native(error), exception=traceback.format_exc())

def remove_expired_licenses(self):
    """
    Remove expired licenses
    """
    remove_expired = netapp_utils.zapi.NaElement(  
    'license-v2-delete-expired')
    try:
        self.server.invoke_successfully(remove_expired,
        enable_tunneling=False)
    except netapp_utils.zapi.NaApiError as error:
        self.module.fail_json(msg="Error removing expired licenses: %s" %
        to_native(error), exception=traceback.format_exc())

def add_licenses(self):
    """
    Add licenses
    """
    license_add = netapp_utils.zapi.NaElement('license-v2-add')
codes = netapp_utils.zapi.NaElement('codes')
for code in self.license_codes:
    codes.add_new_child('license-code-v2', str(code.strip().lower()))
license_add.add_child_elem(codes)
try:
    self.server.invoke_successfully(license_add,
    enable_tunneling=False)
except netapp_utils.zapi.NaApiError as error:
    self.module.fail_json(msg="Error adding licenses: %s" %
    to_native(error), exception=traceback.format_exc())
def apply(self):
    '''Call add, delete or modify methods'''
    changed = False
    create_license = False
    remove_license = False
    results = netapp_utils.get_cserver(self.server)
    cserver = netapp_utils.setup_na_ontap_zapi(
        module=self.module, vserver=results)
    netapp_utils.ems_log_event("na_ontap_license", cserver)
    # Add / Update licenses.
    license_status = self.get_licensing_status()

    if self.state == 'absent':  # delete
        changed = True
    else:  # add or update
        if self.license_codes is not None:
            create_license = True
            changed = True
        if self.remove_unused is not None:
            remove_license = True
            changed = True
        if self.remove_expired is not None:
            remove_license = True
            changed = True
    if changed:
        if self.state == 'present':  # execute create
            if create_license:
                self.add_licenses()
            if self.remove_unused is not None:
                self.remove_unused_licenses()
            if self.remove_expired is not None:
                self.remove_expired_licenses()
            if create_license or remove_license:
                new_license_status = self.get_licensing_status()
                if local_cmp(license_status, new_license_status) == 0:
                    changed = False
        else:  # execute delete
            license_deleted = False
            for package in self.license_names:
                license_deleted |= self.remove_licenses(package)
                changed = license_deleted

    self.module.exit_json(changed=changed)

def main():
    '''Apply license operations'''
    obj = NetAppOntapLicense()
obj.apply()

if __name__ == '__main__':
    main()
#!/usr/bin/python

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# GNU General Public License v3.0+ (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
                    'status': ['deprecated'],
                    'supported_by': 'community'}

DOCUMENTATION = ''

module: na_cdot_license

short_description: Manage NetApp cDOT protocol and feature licenses
extends_documentation_fragment:
    - netapp.ontap
version_added: '2.3'
author: Sumit Kumar (@timuster) <sumit4@netapp.com>

deprecated:
    removed_in: '2.11'
    why: Updated modules released with increased functionality
    alternative: Use M(na_ontap_license) instead.

description:
    - Add or remove licenses on NetApp ONTAP.

options:

remove_unused:
    description:
        - Remove licenses that have no controller affiliation in the cluster.
    type: bool

remove_expired:
    description:
        - Remove licenses that have expired in the cluster.
    type: bool
serial_number:
  description:
  - Serial number of the node associated with the license.
  - This parameter is used primarily when removing license for a specific service.
  - If this parameter is not provided, the cluster serial number is used by default.

licenses:
  description:
  - List of licenses to add or remove.
  - Please note that trying to remove a non-existent license will throw an error.
  suboptions:
    base:
      description:
      - Cluster Base License
    nfs:
      description:
      - NFS License
    cifs:
      description:
      - CIFS License
    iscsi:
      description:
      - iSCSI License
    fcp:
      description:
      - FCP License
    cdmi:
      description:
      - CDMI License
    snaprestore:
      description:
      - SnapRestore License
    snapmirror:
      description:
      - SnapMirror License
    flexclone:
      description:
      - FlexClone License
    snapvault:
      description:
      - SnapVault License
    snaplock:
      description:
      - SnapLock License
    snapmanagersuite:
      description:
      - SnapManagerSuite License
snapprotectapps:
    description:
        - SnapProtectApp License
v_storageattach:
    description:
        - Virtual Attached Storage License

EXAMPLES = ""
- name: Add licenses
  na_cdot_license:
    hostname: "{{ netapp_hostname }}"
    username: "{{ netapp_username }}"
    password: "{{ netapp_password }}"
    serial_number: ################
    licenses:
      nfs: ################
      cifs: ################
      iscsi: ################
      fcp: ################
      snaprestore: ################
      flexclone: ################

- name: Remove licenses
  na_cdot_license:
    hostname: "{{ netapp_hostname }}"
    username: "{{ netapp_username }}"
    password: "{{ netapp_password }}"
    remove_unused: false
    remove_expired: true
    serial_number: ################
    licenses:
      nfs: remove

RETURN = ""

import traceback

from ansible.module_utils.basic import AnsibleModule
from ansible.module_utils._text import to_native
import ansible.module_utils.netapp as netapp_utils

HAS_NETAPP_LIB = netapp_utils.has_netapp_lib()
class NetAppCDOTLicense(object):

    def __init__(self):
        self.argument_spec = netapp_utils.ontap_sf_host_argument_spec()
        self.argument_spec.update(dict(
            serial_number=dict(required=False, type='str', default=None),
            remove_unused=dict(default=False, type='bool'),
            remove_expired=dict(default=False, type='bool'),
            licenses=dict(default=False, type='dict'),
        ))

        self.module = AnsibleModule(
            argument_spec=self.argument_spec,
            supports_check_mode=False
        )

        p = self.module.params

        # set up state variables
        self.serial_number = p['serial_number']
        self.remove_unused = p['remove_unused']
        self.remove_expired = p['remove_expired']
        self.licenses = p['licenses']

        if HAS_NETAPP_LIB is False:
            self.module.fail_json(msg="the python NetApp-Lib module is required")
        else:
            self.server = netapp_utils.setup_ontap_zapi(module=self.module)

    def get_licenseing_status(self):
        
        Check licensing status

        :return: package (key) and licensing status (value)
        :rtype: dict
        
        license_status = netapp_utils.zapi.NaElement('license-v2-status-list-info')
        result = None
        try:
            result = self.server.invoke_successfully(license_status,
                enable_tunneling=False)
        except netapp_utils.zapi.NaApiError as e:
            self.module.fail_json(msg="Error checking license status: %s" %
                to_native(e), exception=traceback.format_exc())

        return_dictionary = { }
license_v2_status = result.get_child_by_name('license-v2-status')
if license_v2_status:
    for license_v2_status_info in license_v2_status.get_children():
        package = license_v2_status_info.get_child_content('package')
        status = license_v2_status_info.get_child_content('method')
        return_dictionary[package] = status

return return_dictionary

def remove_licenses(self, remove_list):
    """
    Remove requested licenses
    :param:
    remove_list : List of packages to remove
    """
    license_delete = netapp_utils.zapi.NaElement('license-v2-delete')
    for package in remove_list:
        license_delete.add_new_child('package', package)
    if self.serial_number is not None:
        license_delete.add_new_child('serial-number', self.serial_number)
    try:
        self.server.invoke_successfully(license_delete,
                                         enable_tunneling=False)
    except netapp_utils.zapi.NaApiError as e:
        self.module.fail_json(msg="Error removing license %s" %
                              to_native(e), exception=traceback.format_exc())

def remove_unused_licenses(self):
    """
    Remove unused licenses
    """
    remove_unused = netapp_utils.zapi.NaElement('license-v2-delete-unused')
    try:
        self.server.invoke_successfully(remove_unused,
                                         enable_tunneling=False)
    except netapp_utils.zapi.NaApiError as e:
        self.module.fail_json(msg="Error removing unused licenses: %s" %
                              to_native(e), exception=traceback.format_exc())

def remove_expired_licenses(self):
    """
    Remove expired licenses
    """
    remove_expired = netapp_utils.zapi.NaElement('license-v2-delete-expired')
    try:
def update_licenses(self):
    """
    Update licenses
    """
    # Remove unused and expired licenses, if requested.
    if self.remove_unused:
        self.remove_unused_licenses()

    if self.remove_expired:
        self.remove_expired_licenses()

    # Next, add/remove specific requested licenses.
    license_add = netapp_utils.zapi.NaElement('license-v2-add')
    codes = netapp_utils.zapi.NaElement('codes')
    remove_list = []
    for key, value in self.licenses.items():
        str_value = str(value)
        # Make sure license is not an empty string.
        if str_value and str_value.strip():
            if str_value.lower() == 'remove':
                remove_list.append(str(key).lower())
            else:
                codes.add_new_child('license-code-v2', str_value)
        else:
            codes.add_new_child('license-code-v2', str_value)

    # Remove requested licenses.
    if len(remove_list) != 0:
        self.remove_licenses(remove_list)

    # Add requested licenses
    if len(codes.get_children()) != 0:
        license_add.add_child_elem(codes)
        try:
            self.server.invoke_successfully(license_add,
                                            enable_tunneling=False)
        except netapp_utils.zapi.NaApiError as e:
            self.module.fail_json(msg="Error adding licenses: %s" %
                                   to_native(e), exception=traceback.format_exc())

    def apply(self):
        changed = False
        # Add / Update licenses.
        license_status = self.get_licensing_status()
self.update_licenses()
new_license_status = self.get_licensing_status()

if license_status != new_license_status:
    changed = True

self.module.exit_json(changed=changed)

def main():
    v = NetAppCDOTLicense()
v.apply()

if __name__ == '__main__':
    main()

#!/usr/bin/python
# Copyright: (c) 2017, Dag Wieers (@dagwieers) <dag@wieers.com>
# GNU General Public License v3.0+ (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
    'status': ['preview'],
    'supported_by': 'community'}

DOCUMENTATION = r'''
module: vcenter_license
short_description: Manage VMware vCenter license keys
description: 
- Add and delete vCenter, ESXi server license keys.
version_added: '2.4'
author: 
- Dag Wieers (@dagwieers)
requirements: 
- pyVmomi
options: 
  labels: 
    description:
    - The optional labels of the license key to manage in vSphere vCenter.
    - This is dictionary with key/value pair.
    default: 
      'source': 'ansible'
  license:
    description:
- The license key to manage in vSphere vCenter.
  required: yes
state:
  description:
  - Whether to add (C(present)) or remove (C(absent)) the license key.
  choices: [absent, present]
default: present
esxi_hostname:
  description:
  - The hostname of the ESXi server to which the specified license will be assigned.
  - This parameter is optional.
version_added: '2.8'
notes:
- This module will also auto-assign the current vCenter to the license key
  if the product matches the license key, and vCenter us currently assigned
  an evaluation license only.
- The evaluation license (00000-00000-00000-00000-00000) is not listed
  when unused.
- If C(esxi_hostname) is specified, then will assign the C(license) key to
  the ESXi host.
extends_documentation_fragment: vmware.vcenter_documentation

EXAMPLES = r""
- name: Add a new vCenter license
  vcenter_license:
    hostname: '[[ vcenter_hostname ]]'  
    username: '[[ vcenter_username ]]'  
    password: '[[ vcenter_password ]]'  
    license: f600d-21ae3-5592b-249e0-cc341  
    state: present  
    delegate_to: localhost

- name: Remove an (unused) vCenter license
  vcenter_license:
    hostname: '[[ vcenter_hostname ]]'  
    username: '[[ vcenter_username ]]'  
    password: '[[ vcenter_password ]]'  
    license: f600d-21ae3-5592b-249e0-cc341  
    state: absent  
    delegate_to: localhost

- name: Add ESXi license and assign to the ESXi host
  vcenter_license:
    hostname: '[[ vcenter_hostname ]]'  
    username: '[[ vcenter_username ]]'  
    password: '[[ vcenter_password ]]'  
    esxi_hostname: '[[ esxi_hostname ]]'
license: f600d-21ae3-5592b-249e0-dd502
state: present
delegate_to: localhost

RETURN = r''
licenses:
  description: list of license keys after module executed
  returned: always
  type: list
  sample:
    - f600d-21ae3-5592b-249e0-cc341
    - 143cc-0e942-b2955-3ea12-d006f

try:
  from pyVmomi import vim
  HAS_PYVMOMI = True
except ImportError:
  HAS_PYVMOMI = False

from ansible.module_utils.basic import AnsibleModule
from ansible.module_utils._text import to_native
from ansible.module_utils.vmware import PyVmomi, vmware_argument_spec, find_hostsystem_by_name

class VcenterLicenseMgr(PyVmomi):
  def __init__(self, module):
    super(VcenterLicenseMgr, self).__init__(module)

  def find_key(self, licenses, license):
    for item in licenses:
      if item.licenseKey == license:
        return item
    return None

  def list_keys(self, licenses):
    keys = []
    for item in licenses:
      # Filter out evaluation license key
      if item.used is None:
        continue
      keys.append(item.licenseKey)
    return keys

  def main():
    argument_spec = vmware_argument_spec()
argument_spec.update(dict(
    labels=dict(type='dict', default=dict(source='ansible')),
    license=dict(type='str', required=True),
    state=dict(type='str', default='present', choices=['absent', 'present']),
    esxi_hostname=dict(type='str'),
))

module = AnsibleModule(
    argument_spec=argument_spec,
    supports_check_mode=True,
)

license = module.params['license']
state = module.params['state']

# FIXME: This does not seem to work on vCenter v6.0
labels = []
for k in module.params['labels']:
    kv = vim.KeyValue()
    kv.key = k
    kv.value = module.params['labels'][k]
    labels.append(kv)

result = dict(
    changed=False,
    diff=dict(),
)

pyv = VcenterLicenseMgr(module)
if not pyv.is_vcenter():
    module.fail_json(msg="vcenter_license is meant for vCenter, hostname %s is not vCenter server." % module.params.get('hostname'))

lm = pyv.content.licenseManager

result['licenses'] = pyv.list_keys(lm.licenses)
if module._diff:
    result['diff']['before'] = '
'.join(result['licenses']) + '

if state == 'present':
    if license not in result['licenses']:
        result['changed'] = True
        if module.check_mode:
            result['licenses'].append(license)
        else:
            lm.AddLicense(license, labels)

key = pyv.find_key(lm.licenses, license)
if key is not None:
    lam = lm.licenseAssignmentManager
    assigned_license = None
    # assign to current vCenter, if esxi_hostname is not specified
    if module.params['esxi_hostname'] is None:
        entityId = pyv.content.about.instanceUuid
        # if key name not contain "VMware vCenter Server"
        if pyv.content.about.name not in key.name:
            module.warn('License key "%s" (%s) is not suitable for "%s"' % (license, key.name, pyv.content.about.name))
        # assign to ESXi server
        else:
            esxi_host = find_hostsystem_by_name(pyv.content, module.params['esxi_hostname'])
            if esxi_host is None:
                module.fail_json(msg='Cannot find the specified ESXi host %s.' % module.params['esxi_hostname'])
            entityId = esxi_host._moId
            # e.g., key.editionKey is "esx.enterprisePlus.cpuPackage", not sure all keys are in this format
            if 'esx' not in key.editionKey:
                module.warn('License key "%s" edition "%s" is not suitable for ESXi server' % (license, key.editionKey))
    try:
        assigned_license = lam.QueryAssignedLicenses(entityId=entityId)
    except Exception as e:
        module.fail_json(msg='Could not query vCenter %s assigned license info due to %s.' % (entityId, to_native(e)))
    if not assigned_license or (len(assigned_license) != 0 and assigned_license[0].assignedLicense.licenseKey != license):
        try:
            lam.UpdateAssignedLicense(entity=entityId, licenseKey=license)
        except Exception:
            module.fail_json(msg='Could not assign "%s" (%s) to vCenter.' % (license, key.name))
        result['changed'] = True
        result['licenses'] = pyv.list_keys(lm.licenses)
    else:
        module.fail_json(msg='License "%s" is not existing or can not be added' % license)
        if module._diff:
            result['diff']['after'] = '
'.join(result['licenses']) + '
'

elif state == 'absent' and license in result['licenses']:
    # Check if key is in use
    key = pyv.find_key(lm.licenses, license)
    if key.used > 0:
        module.fail_json(msg='Cannot remove key "%s", still in use %s time(s).' % (license, key.used))
    result['changed'] = True
if module.check_mode:
    result['licenses'].remove(license)
else:
    lm.RemoveLicense(license)
    result['licenses'] = pyv.list_keys(lm.licenses)
if module._diff:
    result['diff']['after'] = '\n'.join(result['licenses']) + '\n'

module.exit_json(**result)

if __name__ == '__main__':
    main()

1.4 ansible 2.3.0.0 :3.el7
1.4.1 Available under license :

This package was debianized by Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu> on
Tue, 17 Apr 2012 12:19:47 -0400.

It was downloaded from https://github.com/ansible/ansible.git

Copyright: Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu>

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Public License can be found in `/usr/share/common-licenses/GPL`.

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Version 3, 29 June 2007

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Preamble

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d3e3f4281292478e8095bea047e2297e005152da

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1.7 awscli 1.14.8

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**To modify the permissions for a document**

This example modifies the permissions for a document. There is no output if the command succeeds.
Command:

```
aws ssm modify-document-permission --name "RunShellScript" --permission-type "Share" --account-ids-to-add "All"
```

**To get the permissions of a document**

This example lists all the versions for a document.

Command:

```
aws ssm describe-document-permission --name "RunShellScript" --permission-type "Share"
```

Output:

```
{
   "AccountIds": [
      "all"
   ]
}
```

**To create a network interface permission**

This example grants permission to account ``123456789012`` to attach network interface ``eni-1a2b3c4d`` to an instance.

Command:

```
aws ec2 create-network-interface-permission --network-interface-id eni-1a2b3c4d --aws-account-id 123456789012 --permission INSTANCE-ATTACH
```

Output:

```
{
   "InterfacePermission": {
      "PermissionState": {
         "State": "GRANTED"
      },
      "NetworkInterfacePermissionId": "eni-perm-06fd19020ede149ea",
      "NetworkInterfaceId": "eni-1a2b3c4d",
      "Permission": "INSTANCE-ATTACH",
      "AwsAccountId": "123456789012"
   }
}
```

**To delete a network interface permission**

This example deletes the specified network interface permission.

Command:
aws ec2 delete-network-interface-permission --network-interface-permission-id eni-perm-06fd19020ede149ea

Output::

{
   "Return": true
}

**To grant per-stack AWS OpsWorks permission levels**

When you import an AWS Identity and Access Management (IAM) user into AWS OpsWorks by calling `create-user-profile`, the user has only those permissions that are granted by the attached IAM policies. You can grant AWS OpsWorks permissions by modifying a user's policies. However, it is often easier to import a user and then use the `set-permission` command to grant the user one of the standard permission levels for each stack to which the user will need access.

The following example grants permission for the specified stack for a user, who is identified by Amazon Resource Name (ARN). The example grants the user a Manage permissions level, with sudo and SSH privileges on the stack's instances. ::

```
aws opsworks set-permission --region us-east-1 --stack-id 71c7ca72-55ae-4b6a-8ee1-a8dced3fa0f --level manage --iam-user-arn arn:aws:iam::123456789102:user/cli-user-test --allow-ssh --allow-sudo
```

*Output*: None.

**More Information**

For more information, see `Granting AWS OpsWorks Users Per-Stack Permissions` in the *AWS OpsWorks User Guide*.

```
-- `Granting AWS OpsWorks Users Per-Stack Permissions`:
```

**To add a permission to a queue**

This example enables the specified AWS account to send messages to the specified queue.

Command::

```
aws sqs add-permission --queue-url https://sqs.us-east-1.amazonaws.com/80398EXAMPLE/MyQueue --label SendMessagesFromMyQueue --aws-account-ids 12345EXAMPLE --actions SendMessage
```

Output::

None.

**To remove a permission**
This example removes the permission with the specified label from the specified queue.

Command:

```
aws sqs remove-permission --queue-url https://sqs.us-east-1.amazonaws.com/80398EXAMPLE/MyQueue --label SendMessagesFromMyQueue
```

Output:

None.

1.8 Centos Minimal 7.2 :1511

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#
# ANSIBLE_METADATA = {'metadata_version': '1.0',
#    'status': ['preview'],
#    'supported_by': 'community'}

DOCUMENTATION = ""

module: na_cdot_license

short_description: Manage NetApp cDOT protocol and feature licenses
extends_documentation_fragment:
    - netapp.ontap
version_added: '2.3'
author: Sumit Kumar (sumit4@netapp.com)

description:
    - Add or remove licenses on NetApp ONTAP.
options:

remove_unused:
  description:
  - Remove licenses that have no controller affiliation in the cluster.
  choices: ['true', 'false']

remove_expired:
  description:
  - Remove licenses that have expired in the cluster.
  choices: ['true', 'false']

serial_number:
  description:
  - Serial number of the node associated with the license.
  - This parameter is used primarily when removing license for a specific service.
  - If this parameter is not provided, the cluster serial number is used by default.
  default: None

licenses:
  description:
  - List of licenses to add or remove.
  - Please note that trying to remove a non-existent license will throw an error.
  suboptions:
    base:
      description:
      - Cluster Base License
    nfs:
      description:
      - NFS License
    cifs:
      description:
      - CIFS License
    iscsi:
      description:
      - iSCSI License
    fcp:
      description:
      - FCP License
    cdmi:
      description:
      - CDMI License
    snaprestore:
      description:
      - SnapRestore License
    snapmirror:
      description:
      - SnapMirror License
flexclone:
    description:
        - FlexClone License
snapvault:
    description:
        - SnapVault License
snaplock:
    description:
        - SnapLock License
snapmanagersuite:
    description:
        - SnapManagerSuite License
snapprotectapps:
    description:
        - SnapProtectApp License
v_storageattach:
    description:
        - Virtual Attached Storage License

EXAMPLES = """
- name: Add licenses
na_cdot_license:
    hostname: "{{ netapp_hostname }}"
    username: "{{ netapp_username }}"
    password: "{{ netapp_password }}"
    serial_number: #################
    licenses:
        nfs: #################
        cifs: #################
        iscsi: #################
        fcp: #################
        snaprestore: #################
        flexclone: #################

- name: Remove licenses
na_cdot_license:
    hostname: "{{ netapp_hostname }}"
    username: "{{ netapp_username }}"
    password: "{{ netapp_password }}"
    remove_unused: false
    remove_expired: true
    serial_number: #################
    licenses:
        nfs: remove
"""
class NetAppCDOTLicense(object):
    def __init__(self):
        self.argument_spec = netapp_utils.ontap_sf_host_argument_spec()
        self.argument_spec.update(dict(
            serial_number=dict(required=False, type='str', default=None),
            remove_unused=dict(default=False, type='bool'),
            remove_expired=dict(default=False, type='bool'),
            licenses=dict(default=False, type='dict'),
        ))

        self.module = AnsibleModule(
            argument_spec=self.argument_spec,
            supports_check_mode=False
        )

        p = self.module.params

        # set up state variables
        self.serial_number = p['serial_number']
        self.remove_unused = p['remove_unused']
        self.remove_expired = p['remove_expired']
        self.licenses = p['licenses']

        if HAS_NETAPP_LIB is False:
            self.module.fail_json(msg="the python NetApp-Lib module is required")
        else:
            self.server = netapp_utils.setup_ontap_zapi(module=self.module)

    def get_licensing_status(self):
        """
        Check licensing status
        """
        Check licensing status

        :return: package (key) and licensing status (value)
        :rtype: dict
        """
license_status = netapp_utils.zapi.NaElement('license-v2-status-list-info')
result = None
try:
    result = self.server.invoke_successfully(license_status,
        enable_tunneling=False)
except netapp_utils.zapi.NaApiError:
    err = get_exception()
    self.module.fail_json(msg="Error checking license status",
        exception=str(err))

return_dictionary = {}
license_v2_status = result.get_child_by_name('license-v2-status')
if license_v2_status:
    for license_v2_status_info in license_v2_status.get_children():
        package = license_v2_status_info.get_child_content('package')
        status = license_v2_status_info.get_child_content('method')
        return_dictionary[package] = status

return return_dictionary

def remove_licenses(self, remove_list):
    
    Remove requested licenses
    :param:
        remove_list : List of packages to remove
    
    license_delete = netapp_utils.zapi.NaElement('license-v2-delete')
    for package in remove_list:
        license_delete.add_new_child('package', package)

    if self.serial_number is not None:
        license_delete.add_new_child('serial-number', self.serial_number)

    try:
        self.server.invoke_successfully(license_delete,
            enable_tunneling=False)
    except netapp_utils.zapi.NaApiError:
        err = get_exception()
        self.module.fail_json(msg="Error removing license",
            exception=str(err))

def remove_unused_licenses(self):
    
    Remove unused licenses
    
    remove_unused = netapp_utils.zapi.NaElement('license-v2-delete-unused')
    try:
def remove_expired_licenses(self):
    """
    Remove expired licenses
    """
    remove_expired = netapp_utils.zapi.NaElement('license-v2-delete-expired')
    try:
        self.server.invoke_successfully(remove_expired,
            enable_tunneling=False)
    except netapp_utils.zapi.NaApiError:
        err = get_exception()
        self.module.fail_json(msg="Error removing expired licenses",
            exception=str(err))

def update_licenses(self):
    """
    Update licenses
    """
    # Remove unused and expired licenses, if requested.
    if self.remove_unused:
        self.remove_unused_licenses()
    if self.remove_expired:
        self.remove_expired_licenses()

    # Next, add/remove specific requested licenses.
    license_add = netapp_utils.zapi.NaElement('license-v2-add')
    codes = netapp_utils.zapi.NaElement('codes')
    remove_list = []
    for key, value in self.licenses.items():
        str_value = str(value)
        # Make sure license is not an empty string.
        if str_value and str_value.strip():
            if str_value.lower() == 'remove':
                remove_list.append(str(key).lower())
            else:
                codes.add_new_child('license-code-v2', str_value)
        # Remove requested licenses.
        if not len(remove_list) == 0:
            self.remove_licenses(remove_list)
# Add requested licenses
if not len(codes.get_children()) == 0:
    license_add.add_child_elem(codes)
try:
    self.server.invoke_successfully(license_add,
        enable_tunneling=False)
except netapp_utils.zapi.NaApiError:
    err = get_exception()
    self.module.fail_json(msg="Error adding licenses",
        exception=str(err))

def apply(self):
    changed = False
    # Add / Update licenses.
    license_status = self.get_licensing_status()
    self.update_licenses()
    new_license_status = self.get_licensing_status()

    if not license_status == new_license_status:
        changed = True

    self.module.exit_json(changed=changed)

def main():
    v = NetAppCDOTLicense()
    v.apply()

    if __name__ == '__main__':
        main()
        #!/usr/bin/python
        # -*- coding: utf-8 -*-

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ANSIBLE_METADATA = {'metadata_version': '1.0',}
'status': ['deprecated'],
'supported_by': 'community'}

DOCUMENTATION = ""
---
module: cl_license
version_added: "2.1"
author: "Cumulus Networks (@CumulusNetworks)"
short_description: Install licenses fo Cumulus Linux
deprecated: Deprecated in 2.3.
description:
- Installs a Cumulus Linux license. The module reports no change of status when a license is installed.
For more details go the Cumulus Linux License Documentation at U(http://docs.cumulusnetwork.com) and the Licensing KB Site at U(https://support.cumulusnetworks.com/hc/en-us/sections/200507688)
notes:
- To activate a license for the FIRST time, the switchd service must be restarted. This action is disruptive. The license renewal process occurs via the Cumulus Networks Customer Portal - U(http://customers.cumulusnetworks.com).
- A non-EULA license is REQUIRED for automation. Manually install the license on a test switch, using the command "cl-license -i <license_file>" to confirm the license is a Non-EULA license.
See EXAMPLES, for the proper way to issue this notify action.
options:
src:
description:
- The full path to the license. Can be local path or HTTP URL.
required: true
force:
description:
- Force installation of a license. Typically not needed.
It is recommended to manually run this command via the ansible command. A reload of switchd is not required. Running the force option in a playbook will break the idempotent state machine of the module and cause the switchd notification to kick in all the time, causing a disruption.
choices:
- yes
- no

EXAMPLES = ""
# Example playbook using the cl_license module to manage licenses on Cumulus Linux

- hosts: all
tasks:
- name: install license using http url
  cl_license:
    src: http://10.1.1.1/license.txt
    notify: restart switchd

- name: Triggers switchd to be restarted right away, before play, or role is over. This is desired behaviour
  meta: flush_handlers

- name: Configure interfaces
  template:
    src: interfaces.j2
    dest: /etc/network/interfaces
    notify: restart networking

handlers:
- name: restart switchd
  service:
    name: switchd
    state: restarted
- name: restart networking
  service:
    name: networking
    state: reloaded

# Force all switches to accept a new license. Typically not needed
# ansible -m cl_license -a "src=http://10.1.1.1/new_lic' force=yes" -u root all ...

RETURN = ""
changed:
  description: whether the interface was changed
  returned: changed
  type: bool
  sample: True
msg:
  description: human-readable report of success or failure
  returned: always
  type: string
  sample: "interface bond0 config updated"

CL_LICENSE_PATH="/usr/cumulus/bin/cl-license"

def install_license(module):
    # license is not installed, install it
    _url = module.params.get('src')
(_rc, out, _err) = module.run_command("%s -i %s" % (CL_LICENSE_PATH, _url))
if _rc > 0:
    module.fail_json(msg=_err)

def main():
    module = AnsibleModule(
        argument_spec=dict(
            src=dict(required=True, type='str'),
            force=dict(type='bool', choices=BOOLEANS, default=False)
        ),
    )

    # check if license is installed
    # if force is enabled then set return code to nonzero
    if module.params.get('force') is True:
        _rc = 10
    else:
        (_rc, out, _err) = module.run_command(CL_LICENSE_PATH)
    if _rc == 0:
        module.msg = "No change. License already installed"
        module.changed = False
    else:
        install_license(module)
        module.msg = "License installation completed"
        module.changed = True
    module.exit_json(changed=module.changed, msg=module.msg)

    # import module snippets
    from ansible.module_utils.basic import *
    # from ansible.module_utils.urls import *

    if __name__ == '__main__':
        main()

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

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1.12 curl 7.61.0-r0

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

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1.13 d3 5.7

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Gocheck - A rich testing framework for Go

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

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Dynamite is a thin replacation layer for multi storages
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Dictionary implementation, dyn_dict.c and dyn_dict.h, comes from redis: redis.io

Portions of Dynomite were derived from twemproxy

twemproxy is a fast and lightweight proxy for memcached protocol
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Portions of twemproxy were inspired from nginx: http://nginx.org/

The implementation of generic array (dn_array.[ch]) and red black tree (dn_rbtree.[ch]) also comes from nginx-0.8.55.
The generic queue implementation comes from BSD <sys/queue.h>
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The implementation of consistent hashing and individual hash algorithms were
borrowed from libmymcached.

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1.16 elastalert 0.1.21

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1.17 elasticsearch 6.2.0

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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### The art of simplicity is a puzzle of complexity.***

## 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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[role="xpack"]
[[license-settings]]
== {xpack} License Settings

You can configure this licensing setting in the `elasticsearch.yml` file. For more information, see
{xpack-ref}/license-management.html[{xpack} 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.
--
[role="xpack"]
[testenv="basic"]
[[delete-license]]

== Delete License API

This API enables you to delete licensing information.

[delete-license]

== Request

DELETE /_xpack/license

== Description

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

== Authorization

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

== Examples

The following example queries the info API:

[source,js]
DELETE _xpack/license

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

When the license is successfully deleted, the API returns the following response:
[source,js]

```json
{
  "acknowledged": true
}
```

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

This API enables you to retrieve licensing information.

[f] Request

`GET /_xpack/license`

[f] Description

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.

[f] Query Parameters

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

[f] Authorization

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

[Example]

==== Examples

The following example provides information about a basic license:

[source,js]
----------------------------------------------------------------------------
GET _xpack/license
----------------------------------------------------------------------------
// CONSOLE

[source,js]
----------------------------------------------------------------------------
{
"license": {
"status": "active",
"uid": "cbff45e7-c553-41f7-ae4f-9205eabd80xx",
"type": "basic",
"issue_date": "2018-02-22T23:12:05.550Z",
"issue_date_in_millis": 1519341125550,
"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/"2018-02-22T23:12:05.550Z"/$body.license.issue_date/]
// TESTRESPONSE[s/1519341125550/$body.license.issue_date_in_millis/]
// TESTRESPONSE[s/1000/$body.license.max_nodes/]
// TESTRESPONSE[s/"test"/$body.license.issued_to/]
// TESTRESPONSE[s/"elasticsearch"/$body.license.issuer/]
[role="xpack"]
[testenv="basic"]
[[update-license]]

This API enables you to update your license.

[Request]
'PUT _xpack/license'

===== 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.

===== Query Parameters

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

===== Request Body

`licenses`::<br>(array) A sequence of one or more JSON documents containing the license information.

===== Authorization

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>`. 

===== Examples

The following example updates to a basic license:

[source,js]
-------------------------------
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:license 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:

[source,js]
[source,shell]

------------------------------------------------------------
curl -XPUT -u <user> 'http://<host>:<port>/_xpack/license' -H "Content-Type: application/json" -d @license.json

------------------------------------------------------------
// NOTCONSOLE

On Windows machine, use the following command:

[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:

[source.js]

```json
{
    "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: ..."]
    }
}
```

// NOTCONSOLE

To complete the update, you must re-submit the API request and set the `acknowledge` parameter to `true`. For example:

[source.js]

```json
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:

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

// NOTCONSOLE

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- `analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`
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===========================================================================

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The code for the t-digest was originally authored by Ted Dunning

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 */

package org.elasticsearch.license;

/**
 * Licensing for xpack.
 *
 * A {@link org.elasticsearch.license.License} is a signed set of json properties that determine what features
 * are available in a running cluster. Licenses are registered through a
 * {@link org.elasticsearch.license.PutLicenseRequest}. This action is handled by the master node, which places
 * the signed license into the cluster state. Each node listens for cluster state updates via the
 * {@link org.elasticsearch.license.LicenseService}, and updates its local copy of the license when it detects
 * changes in the cluster state.
 *
 * The logic for which features are available given the current license is handled by
 * {@link org.elasticsearch.license.XPackLicenseState}, which is updated by the
 * {@link org.elasticsearch.license.LicenseService} when the license changes.
 */

package org.elasticsearch.license;

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 */

import org.elasticsearch.action.support.master.MasterNodeReadOperationRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

public class GetLicenseRequestBuilder extends MasterNodeReadOperationRequestBuilder<GetLicenseRequest,
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());
}
}

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 DeleteLicenseRequest extends AcknowledgedRequest<DeleteLicenseRequest> {

    public DeleteLicenseRequest() {
    }

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

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

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

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*/
package org.elasticsearch.license;

import org.elasticsearch.action.Action;

public class GetBasicStatusAction extends Action<GetBasicStatusResponse> {

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

    private GetBasicStatusAction() {
        super(NAME);
    }

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

import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

public class PutLicenseResponse extends AcknowledgedResponse {

    private LicensesStatus status;
    private Map<String, String[]> acknowledgeMessages;

    import java.io.IOException;
    import java.util.Collections;
    import java.util.HashMap;
    import java.util.Map;

    public class PutLicenseResponse extends AcknowledgedResponse {

        private LicensesStatus status;
        private Map<String, String[]> acknowledgeMessages;

        import java.io.IOException;
        import java.util.Collections;
        import java.util.HashMap;
        import java.util.Map;

        public class PutLicenseResponse extends AcknowledgedResponse {

            private LicensesStatus status;
            private Map<String, String[]> acknowledgeMessages;
private String acknowledgeHeader;

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;
    this.acknowledgeHeader = acknowledgeHeader;
    this.acknowledgeMessages = 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);
        }
    }
}

@Override
protected void addCustomFields(XContentBuilder builder, Params params) throws IOException {
    switch (status) {
        case VALID:
            builder.field("license_status", "valid");
            break;
        case INVALID:
            builder.field("license_status", "invalid");
            break;
        case EXPIRED:
            builder.field("license_status", "expired");
            break;
        default:
            throw new IllegalArgumentException("unknown status [" + status + "] found");
    }
    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();
    }
}

@Override
public String toString() {
    return Strings.toString(this, true, true);
}
}
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*/
package org.elasticsearch.license;
import org.elasticsearch.common.settings.Settings;
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);
controller.registerHandler(POST, URI_BASE + "/license", this);
controller.registerHandler(PUT, URI_BASE + "/license", this);
}
@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 " +

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"/_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));
}
}
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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;
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();

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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);

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

package org.elasticsearch.license;
import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class PostStartBasicRequestBuilder extends ActionRequestBuilder<PostStartBasicRequest,
PostStartBasicResponse> {

    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.support.master.AcknowledgedResponse;

public class DeleteLicenseResponse extends AcknowledgedResponse {

    DeleteLicenseResponse() {
    }

    DeleteLicenseResponse(boolean acknowledged) {
        super(acknowledged);
    }
}

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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;
    }

    RestStatus getRestStatus() {
        return restStatus;
    }
}

private final boolean isBasicStarted;
private final String errorMessage;
private final RestStatus restStatus;

Status(isBasicStarted, errorMessage, restStatus) {
    this.isBasicStarted = isBasicStarted;
    this.errorMessage = errorMessage;
    this.restStatus = restStatus;
}

boolean isBasicStarted() {
    return isBasicStarted;
}

String getErrorMessage() {
    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");
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            builder.field(entry.getKey(), entry.getValue());
        }
        builder.endObject();
    }
}
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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 */

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.ack.ClusterStateUpdateResponse;
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.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportDeleteLicenseAction extends TransportMasterNodeAction<DeleteLicenseRequest,
    DeleteLicenseResponse> {

    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, DeleteLicenseRequest::new);
        this.licenseService = licenseService;
    }
}
@Override
protected String executor() {
    return ThreadPool.Names.MANAGEMENT;
}

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

@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<DeleteLicenseResponse> listener) throws ElasticsearchException {
    licenseService.removeLicense(request, new ActionListener<ClusterStateUpdateResponse>() {
        @Override
        public void onResponse(ClusterStateUpdateResponse clusterStateUpdateResponse) {
            listener.onResponse(new DeleteLicenseResponse(clusterStateUpdateResponse.isAcknowledged()));
        }
        @Override
        public void onFailure(Exception e) {
            listener.onFailure(e);
        }
    });
}

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 */
package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.apache.lucene.util.BytesRef;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.watcher.FileChangesListener;
import org.elasticsearch.watcher.FileWriter;
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);
            }
        }
    }

    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)) {
        OperationMode newOperationMode = defaultOperationMode;
        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("couldn’t read operation mode from [{ }]", licenseModePath.toAbsolutePath()), e);
                    return;
                }
            }
            newOperationMode = OperationMode.resolve(operationMode);
        } catch (IllegalArgumentException e) {
            logger.error(
                (Supplier<?>) () -> new ParameterizedMessage("couldn’t read operation mode from [{ }]", licenseModePath.toAbsolutePath()), e);
            return;
        }
    }
}
public boolean isEligibleToStartTrial() {
    return eligibleToStartTrial;
}
@Override
public void writeTo(StreamOutput out) throws IOException {
    out.writeBoolean(eligibleToStartTrial);
}
*/
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 */
package org.elasticsearch.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 {
    // SALT must be at least 128bits for FIPS 140-2 compliance
    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) {
        throw new IllegalStateException(e);
    }
}

static byte[] decryptV3Format(byte[] data) {
    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);
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;
}
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.Version;

public class PostStartTrialAction extends Action<PostStartTrialResponse> {

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

    private PostStartTrialAction() {
        super(NAME);
    }

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

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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.
 */
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
     * has expired
     *<code>feature</code> accessible through @link #EXPIRED_FEATURE_METADATA in the
     * exception's rest header
     */
    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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     * 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.ActionRequestValidationException;
    import org.elasticsearch.action.support.master.MasterNodeReadRequest;
    import org.elasticsearch.common.io.stream.StreamInput;
    import java.io.IOException;

    public class GetTrialStatusRequest extends MasterNodeReadRequest<GetTrialStatusRequest> {

        public GetTrialStatusRequest() {
        }

        public GetTrialStatusRequest(StreamInput in) throws IOException {
            super(in);
        }

        @Override
        public ActionRequestValidationException validate() {
            return 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.action.Action;

public class DeleteLicenseAction extends Action<DeleteLicenseResponse> {

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

    private DeleteLicenseAction() {
        super(NAME);
    }

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

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.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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 * 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 GetTrialStatusRequestBuilder extends ActionRequestBuilder<GetTrialStatusRequest, 
  GetTrialStatusResponse> {
  GetTrialStatusRequestBuilder(ElasticsearchClient client, GetTrialStatusAction action) {
    super(client, action, new GetTrialStatusRequest());
  }
}
package org.elasticsearch.license;

import org.elasticsearch.common.Strings;
import org.elasticsearch.common.logging.LoggerMessageFormat;
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"
        });
    }
}
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```java
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.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.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:
  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;

private static String[] watcherAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
  switch (newMode) {
    case BASIC:
      switch (currentMode) {
        case TRIAL:
          return new String[] {
            "Authentication will be limited to the native realms.",
            "IP filtering and auditing will be disabled.",
            "Field and document level access control will be disabled.",
            "Custom realms will be ignored."
          };
      }
    break;
  }
  return Strings.EMPTY_ARRAY;
}
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("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.",
                        newMode, newMode, newMode),
                        LoggerMessageFormat.format("Automatic index cleanup is locked to {} days for clusters with [{} ] license.",
                        MonitoringField.HISTORY_DURATION.getDefault(Settings.EMPTY).days(), newMode)
                    };
            }
            break;
        }
    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;
    }
}
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:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] { "Logstash will no longer poll for centrally-managed pipelines" };
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] sqlAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
        case STANDARD:
        case GOLD:
            switch (currentMode) {
                case TRIAL:
                case PLATINUM:
                    return new String[] { "JDBC support will be disabled, but you can continue to use SQL CLI and REST endpoint" };
            }
            break;
    }
}
return Strings.EMPTY_ARRAY;
}

/** 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 volatile Status status = new Status(OperationMode.TRIAL, true);
private final List<Runnable> listeners = new CopyOnWriteArrayList<>();
private final boolean isSecurityEnabled;
private final boolean isSecurityExplicitlyEnabled;

public XPackLicenseState(Settings settings) {
    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));
}

/** Updates the current state of the license, which will change what features are available. */
void update(OperationMode mode, boolean active) {
    status = new Status(mode, active);
    listeners.forEach(Runnable::run);
}

/** Add a listener to be notified on license change */
public void addListener(Runnable runnable) {
    listeners.add(Objects.requireNonNull(runnable));
}

/** Remove a listener */
public void removeListener(Runnable runnable) {
    listeners.remove(runnable);
}
/** Return the current license type. */
public OperationMode getOperationMode() {
    return status.mode;
}

/** Return true if the license is currently within its time boundaries, false otherwise. */
public 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 boolean isAuthAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.STANDARD || mode == OperationMode.GOLD || mode == OperationMode.PLATINUM
    || mode == OperationMode.TRIAL;
}

/**
 * @return true if IP filtering should be enabled
 */
public boolean isIpFilteringAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM
    || mode == OperationMode.TRIAL;
}

/**
 * @return true if auditing should be enabled
 */
public boolean isAuditingAllowed() {
    OperationMode mode = status.mode;
    return 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 boolean isStatsAndHealthAllowed() {
return status.active;
}

/**
 * Determine if Document Level Security (DLS) and Field Level Security (FLS) should be enabled.
 * 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 [ @code true ] to enable DLS and FLS. Otherwise [ @code false ].
 */
public boolean isDocumentAndFieldLevelSecurityAllowed() {
    OperationMode mode = status.mode;
    return 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 AllowedRealmType allowedRealmType() {
    switch (status.mode) {
        case PLATINUM:
            case TRIAL:
                return AllowedRealmType.ALL;
        case GOLD:
            return AllowedRealmType.DEFAULT;
        case STANDARD:
            return AllowedRealmType.NATIVE;
        default:
            return AllowedRealmType.NONE;
    }
}

/**
 * @return whether custom role providers are allowed based on the license [ @link OperationMode]
 */
public boolean isCustomRoleProvidersAllowed() {
    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>
 *<p>
 * @return {@code true} as long as the license is valid. Otherwise {@code false}.
 */
public boolean isWatcherAllowed() {
    // status is volatile, so a local variable is used for a consistent view
    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
 *<p>
 * @return true if the license is active
 */
public boolean isMonitoringAllowed() {
    return status.active;
}
/**
 * Monitoring Cluster Alerts requires the equivalent license to use Watcher.
 * @return {@link #isWatcherAllowed()}
 * @see #isWatcherAllowed()
 */
public boolean isMonitoringClusterAlertsAllowed() {
    return isWatcherAllowed();
}

/**
 * Determine if the current license allows the retention of indices to be modified.
 * Only users with a non-{@link OperationMode#BASIC} license can update the retention period.
 * Note: This does not consider the <em>state</em> of the license so that any change is remembered for when they fix their license.
 * @return {@code true} if the user is allowed to modify the retention. Otherwise {@code false}.
 */
public boolean isUpdateRetentionAllowed() {
    final OperationMode mode = status.mode;
    return mode != OperationMode.BASIC && mode != OperationMode.MISSING;
}

/**
 * Determine if Graph Exploration should be enabled.
 * 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>
 * @return {@code true} as long as the license is valid. Otherwise {@code false}.
 */
public boolean isGraphAllowed() {
    // status is volatile
    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#PLATINUM}</li>
* <li>{@link OperationMode#TRIAL}</li>
* </ul>*
* @return {@code true} as long as the license is valid. Otherwise
* { @code false }.
*/

public boolean isMachineLearningAllowed() {
    // status is volatile
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
    OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

/**
* Rollup is always available as long as there is a valid license
*
* @return true if the license is active
*/

public 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 boolean isLogstashAllowed() {
    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;
    }
}

/**
 * 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 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 boolean isUpgradeAllowed() {
    // status is volatile
    Status localStatus = status;
    // Should work on all active licenses
    return localStatus.active;
}

/**
 * Determine if SQL support should be enabled.
 * <p>
 * SQL is available for all license types except {@link OperationMode#MISSING}
 */
public 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 boolean isJdbcAllowed() {
    // status is volatile
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;
boolean licensed = operationMode == OperationMode.TRIAL || operationMode == OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

public boolean isTrialLicense() {
    return status.mode == OperationMode.TRIAL;
}

public boolean isSecurityAvailable() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM || mode ==
    OperationMode.STANDARD ||
    mode == OperationMode.TRIAL;
}

public boolean isSecurityEnabled() {
    final OperationMode mode = status.mode;
    return mode == OperationMode.TRIAL ? isSecurityExplicitlyEnabled : isSecurityEnabled;
}

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;
public class StartTrialClusterTask extends ClusterStateUpdateTask {
    private static final String ACKNOWLEDGEMENT_HEADER = "This API initiates a free 30-day trial for all
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);
    LicensesMetaData currentLicensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);

    if (request.isAcknowledged() == false) {
        return currentState;
    } else if (currentLicensesMetaData == null || currentLicensesMetaData.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);
    LicensesMetaData currentLicensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);

    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();
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error(new ParameterizedMessage("unexpected failure during 
    [{}]", source), e);
    listener.onFailure(e);
}

package org.elasticsearch.license;
import org.elasticsearch.action.Action;
public class PutLicenseAction extends Action<PutLicenseResponse> {

    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();
}
}
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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;

public class GetLicenseAction extends Action<GetLicenseResponse> {

    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();
    }
}
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* you may not use this file except in compliance with the Elastic License.
*/
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;

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, String[]>> 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: ", oldLicensesMetaData);
        License oldLicense = LicensesMetaData.extractLicense(oldLicensesMetaData);
        Map<String, String[]> 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);
        return currentLicense;
    }

    public void execute(ClusterState currentState) throws Exception {
        XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
        LicensesMetaData licensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);
    }
}

519
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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 */
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;

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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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     * or more contributor license agreements. Licensed under the Elastic License;
     */
class PostStartTrialRequestBuilder extends ActionRequestBuilder<PostStartTrialRequest, PostStartTrialResponse> {

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

    public PostStartTrialRequestBuilder setAcknowledge(boolean acknowledge) {
        request.acknowledge(acknowledge);
        return this;
    }
}

public class RestDeleteLicenseAction extends XPackRestHandler {

    public RestDeleteLicenseAction(Settings settings, RestController controller) {
        super(settings);
        controller.registerHandler(DELETE, URL_BASE + "/license", this);
    }

    @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.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.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.core.internal.io.Streams;
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;

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

    /**
     * verifies the license content with the signature using the packaged
     * public key
     */

* @param license to verify
* @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);
    }
}

public static boolean verifyLicense(final License license) {
    final byte[] publicKeyBytes;
    try (InputStream is = LicenseVerifier.class.getResourceAsStream("/public.key")) {
        ByteArrayInputStream is = new ByteArrayInputStream(publicKeyBytes);
        publicKeyBytes = new byte[is.read(publicKeyBytes.length)];
    } catch (IOException ex) {
        throw new IllegalStateException(ex);
    }
}
return verifyLicense(license, publicKeyBytes);
}
}
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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.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.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(contentBuilder.rawContent(), signature);
            } else {
                encrypt = encrypt(contentBuilder.rawContent(), signature);
            }
            specBuilder.license(encrypt);
            return specBuilder.build();
        }
    }
}

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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);
        return license.equals(expectedLicense);
    } catch (IOException e) {
        throw new IllegalStateException(e);
    }
}

public static boolean validSelfGeneratedType(String type) {
    return "basic".equals(type) || "trial".equals(type);
}
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,
GetTrialStatusRequest::new, indexNameExpressionResolver);
}

@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()));}
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);
        }
    }
* 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
*/

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final TimeValue delay(long expirationDate, long now) {
    final TimeValue delay;
    switch (orientation) {
        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;
}

/**
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 \[", orientation.name(), TimeValue.timeValueMillis(min), TimeValue.timeValueMillis(max), TimeValue.timeValueMillis(frequency));
}
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.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].
 * <p>
 * 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.
 * */

class LicenseService extends AbstractLifecycleComponent implements ClusterStateListener,
SchedulerEngine.Listener {

    public static final Setting<String> SELF_GENERATED_LICENSE_TYPE = new
Setting<>("xpack.license.self_generated.type",
(s) -> "basic", (s) -> 

if (SelfGeneratedLicense.validSelfGeneratedType(s)) {
    return s;
} else {
    throw new IllegalArgumentException("Illegal self generated license type [" + s + "]. Must be trial or basic.");
}
}, Setting.Property.NodeScope);

// 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 = Long.MAX_VALUE - days(365).millis();

private final ClusterService clusterService;

/**
 * The xpack feature state to update when license changes are made.
 */
private final XPackLicenseState licenseState;

/**
 * Currently active license
 */
private final AtomicReference<License> currentLicense = new AtomicReference<>();
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(clock);
    this.licenseState = licenseState;
    this.operationModeFileWatcher = new OperationModeFileWatcher(resourceWatcherService,
        XPackPlugin.resolveConfigFile(env, "license_mode"), logger, () -> updateLicenseState(getLicense()));
    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(message);
            }
        }
    });
}
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
 */
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 {
        // 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 (newLicense.isProductionLicense() && XPackSettings.SECURITY_ENABLED.get(settings) && 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");
    // 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
    } else {
        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()) && currentLicense.issueDate() > newLicense.issueDate()) {
        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 =
        clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    if (licensesMetaData != null) {
        final License license = licensesMetaData.getLicense();
        if (event.getJobName().equals(LICENSE_JOB)) {
            updateLicenseState(license);
        } 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;
}

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() + ". Valid trial types are "
                + VALID_TRIAL_TYPES + ");
    }
    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) == false &&
            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() &&
                (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 (currentClusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK) || prevLicensesMetaData == null) {
        if (currentLicensesMetaData != null) {
            onUpdate(currentLicensesMetaData);
        } else if (!prevLicensesMetaData.equals(currentLicensesMetaData)) {
            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()))) {
        
    
}
protected void updateLicenseState(final License license) {
    if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
        // implies license has been explicitly deleted
        licenseState.update(License.OperationMode.MISSING, false);
        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);

        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());
        }
    }
}

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
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);
}

// 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().isLoopbackAddress();
}

/**
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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.support.master.AcknowledgedRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

public class DeleteLicenseRequestBuilder extends AcknowledgedRequestBuilder<DeleteLicenseRequest,
DeleteLicenseResponse,
DeleteLicenseRequestBuilder> {
    public DeleteLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, DeleteLicenseAction.INSTANCE);
    }

    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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*/
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);

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return new BytesRestResponse(status.getRestStatus(), builder);
    }
  });
}

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

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package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.io.stream.Writeable;
import org.elasticsearch.common.xcontent.ToXContentObject;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.xpack.core.XPackBuild;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import java.util.Set;
import java.util.stream.Collectors;

public class XPackInfoResponse extends ActionResponse {

  @Nullable private BuildInfo buildInfo;
  @Nullable private LicenseInfo licenseInfo;
  @Nullable private FeatureSetsInfo featureSetsInfo;

  public XPackInfoResponse() {}

  public XPackInfoResponse(@Nullable BuildInfo buildInfo, @Nullable LicenseInfo licenseInfo, @Nullable
      FeatureSetsInfo featureSetsInfo) {
      this.buildInfo = buildInfo;
  }

  public XPackInfoResponse(Nullable BuildInfo buildInfo, Nullable LicenseInfo licenseInfo, Nullable
      FeatureSetsInfo featureSetsInfo) {
      this.buildInfo = buildInfo;
  }

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

  public BuildInfo getBuildInfo() {
    return buildInfo;
  }

  public LicenseInfo getLicenseInfo() {
    return licenseInfo;
  }

  public FeatureSetsInfo getFeatureSetsInfo() {
    return featureSetsInfo;
  }

  @Nullable
  @Override
  public BuildInfo getBuildInfo() {
    return buildInfo;
  }

  @Nullable
  @Override
  public LicenseInfo getLicenseInfo() {
    return licenseInfo;
  }

  @Nullable
  @Override
  public FeatureSetsInfo getFeatureSetsInfo() {
    return featureSetsInfo;
  }

  @Override
  public XContentBuilder toXContent(XContentBuilder builder, Params params) {
    builder.startObject("xpack_info_response");
    builder.field("build_info", buildInfo);
    builder.field("license_info", licenseInfo);
    builder.field("feature_sets_info", featureSetsInfo);
    builder.endObject();
    return builder;
  }

  @Override
  public void writeTo(StreamOutput out) throws IOException {
    out.writeNullIfMissing("build_info", buildInfo);
    out.writeNullIfMissing("license_info", licenseInfo);
    out.writeNullIfMissing("feature_sets_info", featureSetsInfo);
  }

  @Override
  public void readFrom(StreamInput in) throws IOException {
    buildInfo = in.readNullIfMissing("build_info");
    licenseInfo = in.readNullIfMissing("license_info");
    featureSetsInfo = in.readNullIfMissing("feature_sets_info");
  }

  @Override
  public void swapBuildInfo(BuildInfo buildInfo) {
    this.buildInfo = buildInfo;
  }

  @Override
  public void swapLicenseInfo(LicenseInfo licenseInfo) {
    this.licenseInfo = licenseInfo;
  }

  @Override
  public void swapFeatureSetsInfo(FeatureSetsInfo featureSetsInfo) {
    this.featureSetsInfo = featureSetsInfo;
  }

  @Override
  public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    XPackInfoResponse that = (XPackInfoResponse) o;
    return buildInfo.equals(that.buildInfo) && licenseInfo.equals(that.licenseInfo) &&
        featureSetsInfo.equals(that.featureSetsInfo);
  }

  @Override
  public int hashCode() {
    return Objects.hash(buildInfo, licenseInfo, featureSetsInfo);
  }

  @Override
  public String toString() {
  }

  public static class XPackInfoResponseBuilder {
    private BuildInfo buildInfo;
    private LicenseInfo licenseInfo;
    private FeatureSetsInfo featureSetsInfo;

    public XPackInfoResponseBuilder() {
    }

    public XPackInfoResponseBuilder(Nullable BuildInfo buildInfo, Nullable LicenseInfo licenseInfo, Nullable
        FeatureSetsInfo featureSetsInfo) {
        this.buildInfo = buildInfo;
        this.licenseInfo = licenseInfo;
        this.featureSetsInfo = featureSetsInfo;
    }

    public XPackInfoResponseBuilder setBuildInfo(BuildInfo buildInfo) {
        this.buildInfo = buildInfo;
        return this;
    }

    public XPackInfoResponseBuilder setLicenseInfo(LicenseInfo licenseInfo) {
        this.licenseInfo = licenseInfo;
        return this;
    }

    public XPackInfoResponseBuilder setFeatureSetsInfo(FeatureSetsInfo featureSetsInfo) {
        this.featureSetsInfo = featureSetsInfo;
        return this;
    }

    public XPackInfoResponse build() {
        return new XPackInfoResponse(buildInfo, licenseInfo, featureSetsInfo);
    }

    public void validate() {
    }

    public static XPackInfoResponse fromXContent(XContentParser parser) throws IOException {
        return parser.mapToBean(XPackInfoResponseBuilder.class).build();
    }

    @Override
    public void copyFrom(XPackInfoResponse other) {
        this.buildInfo = other.buildInfo;
        this.licenseInfo = other.licenseInfo;
        this.featureSetsInfo = other.featureSetsInfo;
    }
  }
}
this.licenseInfo = licenseInfo;
this.featureSetsInfo = featureSetsInfo;
}

/**
 * @return  The build info (incl. build hash and timestamp)
 */
public BuildInfo getBuildInfo() {
    return buildInfo;
}

/**
 * @return  The current license info (incl. UID, type/mode. status and expiry date). May return {@code null} when no
 * license is currently installed.
 */
public LicenseInfo getLicenseInfo() {
    return licenseInfo;
}

/**
 * @return  The current status of the feature sets in X-Pack. Feature sets describe the features available/enabled in
 * X-Pack.
 */
public FeatureSetsInfo getFeatureSetsInfo() {
    return featureSetsInfo;
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeOptionalWriteable(buildInfo);
    out.writeOptionalWriteable(licenseInfo);
    out.writeOptionalWriteable(featureSetsInfo);
}

@Override
public void readFrom(StreamInput in) throws IOException {
    this.buildInfo = in.readOptionalWriteable(BuildInfo::new);
    this.licenseInfo = in.readOptionalWriteable(LicenseInfo::new);
    this.featureSetsInfo = in.readOptionalWriteable(FeatureSetsInfo::new);
}

public static class LicenseInfo implements ToXContentObject, Writeable {

    private final String uid;
    private final String type;
    private final String mode;

}
private final long expiryDate;
private final License.Status status;

public LicenseInfo(License license) {
    this(license.uid(), license.type(), license.operationMode().name().toLowerCase(Locale.ROOT),
        license.status(), license.expiryDate());
}

public LicenseInfo(StreamInput in) throws IOException {
    this(in.readString(), in.readString(), in.readString(), License.Status.readFrom(in), in.readLong());
}

public LicenseInfo(String uid, String type, String mode, License.Status status, long expiryDate) {
    this.uid = uid;
    this.type = type;
    this.mode = mode;
    this.status = status;
    this.expiryDate = expiryDate;
}

public String getUid() {
    return uid;
}

public String getType() {
    return type;
}

public String getMode() {
    return mode;
}

public long getExpiryDate() {
    return expiryDate;
}

public License.Status getStatus() {
    return status;
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    builder.startObject()
        .field("uid", uid)
        .field("type", type)
        .field("mode", mode)
        .field("status", status.label());
    if (expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
        builder
            .field("expiryDate", expiryDate);
    }
    return builder;
}
```java
    builder.timeField("expiry_date_in_millis", "expiry_date", expiryDate);
    }
    return builder.endObject();
    }
    
    public void writeTo(StreamOutput out) throws IOException {
        out.writeString(uid);
        out.writeString(type);
        out.writeString(mode);
        status.writeTo(out);
        out.writeLong(expiryDate);
    }
    }

    public static class BuildInfo implements ToXContentObject, Writeable {
        private final String hash;
        private final String timestamp;

        public BuildInfo(XPackBuild build) {
            this(build.shortHash(), build.date());
        }

        public BuildInfo(StreamInput input) throws IOException {
            this(input.readString(), input.readString());
        }

        public BuildInfo(String hash, String timestamp) {
            this.hash = hash;
            this.timestamp = timestamp;
        }

        public String getHash() {
            return hash;
        }

        public String getTimestamp() {
            return timestamp;
        }

        @Override
        public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
            return builder.startObject()
                .field("hash", hash)
                .field("date", timestamp)
                .endObject();
        }
    }
```
public void writeTo(StreamOutput output) throws IOException {
    output.writeString(hash);
    output.writeString(timestamp);
}

public static class FeatureSetsInfo implements ToXContentObject, Writeable {

    private final Map<String, FeatureSet> featureSets;

    public FeatureSetsInfo(StreamInput in) throws IOException {
        int size = in.readVInt();
        Map<String, FeatureSet> featureSets = new HashMap<>(size);
        for (int i = 0; i < size; i++) {
            FeatureSet featureSet = new FeatureSet(in);
            featureSets.put(featureSet.name, featureSet);
        }
        this.featureSets = Collections.unmodifiableMap(featureSets);
    }

    public FeatureSetsInfo(Set<FeatureSet> featureSets) {
        Map<String, FeatureSet> map = new HashMap<>(featureSets.size());
        for (FeatureSet featureSet : featureSets) {
            map.put(featureSet.name, featureSet);
        }
        this.featureSets = Collections.unmodifiableMap(map);
    }

    public Map<String, FeatureSet> getFeatureSets() {
        return featureSets;
    }

    @Override
    public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
        builder.startObject();
        List<String> names = new ArrayList<>(this.featureSets.keySet()).stream().sorted().collect(Collectors.toList());
        for (String name : names) {
            builder.field(name, featureSets.get(name), params);
        }
        return builder.endObject();
    }

    public void writeTo(StreamOutput out) throws IOException {
        out.writeVInt(featureSets.size());
        for (FeatureSet featureSet : featureSets.values()) {
            featureSet.writeTo(out);
        }
    }
}
public static class FeatureSet implements ToXContentObject, Writeable {

    private final String name;
    @Nullable private final String description;
    private final boolean available;
    private final boolean enabled;
    @Nullable private final Map<String, Object> nativeCodeInfo;

    public FeatureSet(StreamInput in) throws IOException {
        this(in.readString(), in.readOptionalString(), in.readBoolean(), in.readBoolean(),
            in.getVersion().onOrAfter(Version.V_5_4_0) ? in.readMap() : null);
    }

    public FeatureSet(String name, @Nullable String description, boolean available, boolean enabled,
        @Nullable Map<String, Object> nativeCodeInfo) {
        this.name = name;
        this.description = description;
        this.available = available;
        this.enabled = enabled;
        this.nativeCodeInfo = nativeCodeInfo;
    }

    public String name() {
        return name;
    }

    @Nullable
    public String description() {
        return description;
    }

    public boolean available() {
        return available;
    }

    public boolean enabled() {
        return enabled;
    }

    @Nullable
    public Map<String, Object> nativeCodeInfo() {
        return nativeCodeInfo;
    }

    public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
        builder.startObject();

    }

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if (description != null) {
    builder.field("description", description);
}

builder.field("available", available);
builder.field("enabled", enabled);
if (nativeCodeInfo != null) {
    builder.field("native_code_info", nativeCodeInfo);
}
return builder.endObject();

public void writeTo(StreamOutput out) throws IOException {
    out.writeString(name);
    out.writeOptionalString(description);
    out.writeBoolean(available);
    out.writeBoolean(enabled);
    if (out.getVersion().onOrAfter(Version.V_5_4_0)) {
        out.writeMap(nativeCodeInfo);
    }
}

*/

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

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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.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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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( 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 ) {
        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);
}

package org.elasticsearch.license;

import org.elasticsearch.action.Action;

public class PostStartBasicAction extends Action<PostStartBasicResponse> {

    public static final PostStartBasicAction INSTANCE = new PostStartBasicAction();

    public static final String NAME = "cluster:admin/xpack/license/start_basic";

    private PostStartBasicAction() {
        super(NAME);
    }

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

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 */

package org.elasticsearch.license;

import org.elasticsearch.action.Action;
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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 */
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;

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);
    }

    
    @Override
    public void writeTo(StreamOutput out) throws IOException {
        out.writeObject(eligibleToStartBasic);
    }

    public class DateUtils {

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        */

        import org.elasticsearch.common.joda.Formatter.FormatterDateFormatter;
        import org.elasticsearch.common.joda.Formatter.Formatter;
        import org.elasticsearch.common.joda.time.MutabeDate;
        import org.elasticsearch.common.joda.time.format.Formatter.FormatterDateFormatter;
        import org.elasticsearch.common.joda.time.format.Formatter.ISODateFormatter;

        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 beginningOfTheDay(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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 */
package org.elasticsearch.license;

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);
    }
}
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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.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);
    }

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     * you may not use this file except in compliance with the Elastic License.
     */
    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.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);
        }
    }
controller.registerHandler(GET, URI_BASE + "/license", this);
}

@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(License.REST_VIEW_MODE, "true");
    overrideParams.put(License.LICENSE_VERSION_MODE, String.valueOf(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().ifAtEnd();
                }
                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);
            }
        });
}

/*
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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.XContentParser;
import org.elasticsearch.common.xcontent.XContentType;

/**
 * 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";
public static final String LICENSE_SPEC_VIEW_MODE = "license_spec_view";

public static final String LICENSE_VERSION_MODE = "license_version";

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;

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();
        }
    }
}
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 Status status() {
    long now = System.currentTimeMillis();
    if (issueDate > now) {
        return Status.INVALID;
    } else if (expiryDate < now) {
        return Status.EXPIRED;
    }
    return Status.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());
    builderIssuer(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);
    }

    // More code...
}
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, issuedTo);
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();
            if (currentFieldName.equals("status")) { // Replace with actual field name
                builder.field(Fields.STATUS, status().label());
            } else if (currentFieldName.equals("uid")) {
                builder.field(Fields.UID, uid);
            } else if (currentFieldName.equals("type")) {
                builder.field(Fields.TYPE, type);
            } else if (currentFieldName.equals("subscription_type")) {
                builder.field(Fields.SUBSCRIPTION_TYPE, subscriptionType);
            } else if (currentFieldName.equals("issue_date")) {
                builder.timeField(Fields.ISSUE_DATE_IN_MILLIS, Fields.ISSUE_DATE, issueDate);
            } else if (currentFieldName.equals("feature")) {
                builder.field(Fields.FEATURE, feature);
            } else if (currentFieldName.equals("expiry_date")) {
                builder.timeField(Fields.EXPIRY_DATE_IN_MILLIS, Fields.EXPIRY_DATE, expiryDate);
            } else if (currentFieldName.equals("max_nodes")) {
                builder.field(Fields.MAX_NODES, maxNodes);
            } else if (currentFieldName.equals("issued_to")) {
                builder.field(Fields.ISSUED_TO, issuedTo);
            } else if (currentFieldName.equals("issuer")) {
                builder.field(Fields.ISSUER, issuer);
            } else if (currentFieldName.equals("signature")) {
                builder.field(Fields.SIGNATURE, signature);
            }
        } else if (token == XContentParser.Token.VALUE_EMBEDDED_OBJECT) {
            String currentFieldName = parser.currentName();
            if (currentFieldName.equals("status")) { // Replace with actual field name
                builder.field(Fields.STATUS, status().label());
            } else if (currentFieldName.equals("uid")) {
                builder.field(Fields.UID, uid);
            } else if (currentFieldName.equals("type")) {
                builder.field(Fields.TYPE, type);
            } else if (currentFieldName.equals("subscription_type")) {
                builder.field(Fields.SUBSCRIPTION_TYPE, subscriptionType);
            } else if (currentFieldName.equals("issue_date")) {
                builder.timeField(Fields.ISSUE_DATE_IN_MILLIS, Fields.ISSUE_DATE, issueDate);
            } else if (currentFieldName.equals("feature")) {
                builder.field(Fields.FEATURE, feature);
            } else if (currentFieldName.equals("expiry_date")) {
                builder.timeField(Fields.EXPIRY_DATE_IN_MILLIS, Fields.EXPIRY_DATE, expiryDate);
            } else if (currentFieldName.equals("max_nodes")) {
                builder.field(Fields.MAX_NODES, maxNodes);
            } else if (currentFieldName.equals("issued_to")) {
                builder.field(Fields.ISSUED_TO, issuedTo);
            } else if (currentFieldName.equals("issuer")) {
                builder.field(Fields.ISSUER, issuer);
            } else if (currentFieldName.equals("signature")) {
                builder.field(Fields.SIGNATURE, signature);
            }
        } else if (token == XContentParser.Token.START_OBJECT) {
            XContentParser parserForCurrentField = parser.currentParser();
            if (parserForCurrentField != null) {
                // Delegate parsing to the parser for the current field
            }
        } else if (token == XContentParser.Token.VALUE_STRING) {
            String currentFieldName = parser.currentName();
            if (currentFieldName.equals("status")) { // Replace with actual field name
                builder.field(Fields.STATUS, status().label());
            } else if (currentFieldName.equals("uid")) {
                builder.field(Fields.UID, uid);
            } else if (currentFieldName.equals("type")) {
                builder.field(Fields.TYPE, type);
            } else if (currentFieldName.equals("subscription_type")) {
                builder.field(Fields.SUBSCRIPTION_TYPE, subscriptionType);
            } else if (currentFieldName.equals("issue_date")) {
                builder.timeField(Fields.ISSUE_DATE_IN_MILLIS, Fields.ISSUE_DATE, issueDate);
            } else if (currentFieldName.equals("feature")) {
                builder.field(Fields.FEATURE, feature);
            } else if (currentFieldName.equals("expiry_date")) {
                builder.timeField(Fields.EXPIRY_DATE_IN_MILLIS, Fields.EXPIRY_DATE, expiryDate);
            } else if (currentFieldName.equals("max_nodes")) {
                builder.field(Fields.MAX_NODES, maxNodes);
            } else if (currentFieldName.equals("issued_to")) {
                builder.field(Fields.ISSUED_TO, issuedTo);
            } else if (currentFieldName.equals("issuer")) {
                builder.field(Fields.ISSUER, issuer);
            } else if (currentFieldName.equals("signature")) {
                builder.field(Fields.SIGNATURE, signature);
            }
        } else if (token == XContentParser.Token.END_OBJECT) {
            String currentFieldName = parser.currentName();
            if (currentFieldName.equals("status")) { // Replace with actual field name
                builder.field(Fields.STATUS, status().label());
            } else if (currentFieldName.equals("uid")) {
                builder.field(Fields.UID, uid);
            } else if (currentFieldName.equals("type")) {
                builder.field(Fields.TYPE, type);
            } else if (currentFieldName.equals("subscription_type")) {
                builder.field(Fields.SUBSCRIPTION_TYPE, subscriptionType);
            } else if (currentFieldName.equals("issue_date")) {
                builder.timeField(Fields.ISSUE_DATE_IN_MILLIS, Fields.ISSUE_DATE, issueDate);
            } else if (currentFieldName.equals("feature")) {
                builder.field(Fields.FEATURE, feature);
            } else if (currentFieldName.equals("expiry_date")) {
                builder.timeField(Fields.EXPIRY_DATE_IN_MILLIS, Fields.EXPIRY_DATE, expiryDate);
            } else if (currentFieldName.equals("max_nodes")) {
                builder.field(Fields.MAX_NODES, maxNodes);
            } else if (currentFieldName.equals("issued_to")) {
                builder.field(Fields.ISSUED_TO, issuedTo);
            } else if (currentFieldName.equals("issuer")) {
                builder.field(Fields.ISSUER, issuer);
            } else if (currentFieldName.equals("signature")) {
                builder.field(Fields.SIGNATURE, signature);
            }
        }
    }
    return builder;
}
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.START_OBJECT) {
                throw new ElasticsearchParseException("failed to parse license - no content provided");
            }
        }
    }
}
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;
    if (expiryDate != license.expiryDate) return false;
    if (startDate != license.startDate) return false;
    if (maxNodes != license.maxNodes) return false;
    if (version != license.version) return false;

    License license = (License) o;

    if (issueDate != license.issueDate) return false;
    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 final String DESCRIPTION = "description";

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.beginningOfTheDay(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;
    }
    return this;
}
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;
}

public enum Status {
    ACTIVE("active"),
    INVALID("invalid"),
    EXPIRED("expired");

    private final String label;

    Status(String label) {
        this.label = label;
    }

    public String label() {
        return label;
    }

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

    public static Status readFrom(StreamInput in) throws IOException {
        String value = in.readString();
        switch (value) {
            case "active":
                return ACTIVE;
            case "invalid":
                return INVALID;
            case "expired":
                return EXPIRED;
            default:
                throw new IllegalArgumentException("unknown license status \[" + value + "]");
        }
    }
}

/**
 * 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());
    }
}

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.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, threadPool, actionFilters,
   GetLicenseRequest::new, indexNameExpressionResolver);
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()));
}

/*
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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.apache.logging.log4j.Logger;
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.xpack.core.XPackPlugin;
import java.time.Clock;
import java.util.UUID;

import java.time.Clock;
import java.util.UUID;
public class StartupSelfGeneratedLicenseTask extends ClusterStateUpdateTask {

    /**
     * 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;
    private final Logger logger;

    public StartupSelfGeneratedLicenseTask(Settings settings, Clock clock, ClusterService clusterService) {
        this.settings = settings;
        this.clock = clock;
        this.clusterService = clusterService;
        this.logger = Loggers.getLogger(getClass(), settings);
    }

    @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);
        if (currentLicensesMetaData == null) {
            String type = LicenseService.SELF_GENERATED_LICENSE_TYPE.get(settings);
            if (SelfGeneratedLicense.validSelfGeneratedType(type) == false) {
                throw new IllegalArgumentException("Illegal self generated license type 
        [{0}] Must 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;
    }
    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." +
                "Regenerating 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();
    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." +
                "Regenerating 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();
}

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
 */
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.
@Nullable
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{" +
            "license=" + license +
            ", trialVersion=" + trialVersion +
            "}';
}

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

@Override
public int hashCode() {
    int result = license != null ? license.hashCode() : 0;
    result = 31 * result + (trialVersion != null ? trialVersion.hashCode() : 0);
    return result;
}
@Override
public String getWriteableName() {
    return TYPE;
}

@Override
public Version getMinimalSupportedVersion() {
    return Version.CURRENT.minimumCompatibilityVersion();
}

@Override
public EnumSet<MetaData.XContentContext> context() {
    return EnumSet.of(MetaData.XContentContext.GATEWAY);
}

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();
                    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);
    }
    return builder;
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    if (license == LICENSE_TOMBSTONE) {
        builder.nullField(Fields.LICENSE);
    } else {
        builder.startObject(Fields.LICENSE);
    }
    return builder;
}
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 TRIALLICENSE = "trial_license";
}

/*@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";
}

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;

public class GetLicenseResponse extends ActionResponse {

    private License license;

    GetLicenseResponse() {
    }

    GetLicenseResponse(License license) {
        this.license = license;
    }

    public License getLicense() {
        return this.license;
    }

    public void setLicense(License license) {
        this.license = license;
    }
}

/*
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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.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

import java.io.IOException;

public class GetLicenseResponse extends ActionResponse {

    private License license;

    GetLicenseResponse() {
    }

    GetLicenseResponse(License license) {
        this.license = license;
    }

    public License getLicense() {
        return this.license;
    }

    public void setLicense(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);
    }
}

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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*/
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;

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);
}
}

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;

/**
 * Register license request builder
 *
 * @param client elasticsearch client
 */
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
   */

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;
}

package org.elasticsearch.license;

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

public class GetBasicStatusRequest extends MasterNodeReadRequest<GetBasicStatusRequest> {

    public GetBasicStatusRequest() {
    }

    public GetBasicStatusRequest(StreamInput in) throws IOException {
        super(in);
    }

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

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 */
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,
            GetBasicStatusRequest::new, indexNameExpressionResolver);
    }

    @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.action.Action;
public class GetTrialStatusAction extends Action<GetTrialStatusResponse> {
    public static final GetTrialStatusAction INSTANCE = new GetTrialStatusAction();
    public static final String NAME = "cluster:admin/xpack/license/trial_status";

    private GetTrialStatusAction() {
        super(NAME);
    }

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

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.client.ElasticsearchClient;
public class LicensingClient {
    private final ElasticsearchClient client;

    public LicensingClient(ElasticsearchClient client) {
        this.client = client;
    }

    public LicensingClient(ElasticsearchClient client) {
        this.client = client;
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    public LicensingClient(ElasticsearchClient client) {
        this.client = client;
    }

    public LicensingClient(Elasticso...
public PutLicenseRequestBuilder preparePutLicense(License license) {
    return new PutLicenseRequestBuilder(client).setLicense(license);
}

public void putLicense(PutLicenseRequest request, ActionListener<PutLicenseResponse> listener) {
    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<DeleteLicenseResponse> 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);

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.",
        RestStatus.FORBIDDEN),
        NEED_ACKNOWLEDGEMENT(false,"Operation failed: Needs acknowledgement.", RestStatus.OK);

        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[]> acknowledgesMessages, String acknowledgeMessage) {
    this.status = status;
    this.acknowledgeMessages = acknowledgesMessages;
    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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 */
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.common.ParseException;
import org.elasticsearch.common.common.io.stream.NamedWriteableRegistry;
import org.elasticsearch.common.common.settings.ClusterSettings;
import org.elasticsearch.common.common.settings.IndexScopedSettings;
import org.elasticsearch.common.common.settings.Setting;
import org.elasticsearch.common.common.settings.Settings;
import org.elasticsearch.common.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;

public class Licensing implements ActionPlugin {

  public static final String NAME = "license";
  protected final Settings settings;

  // 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<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 to this file
  // 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;
}

@Override
public List<ActionHandler<? extends ActionRequest, ? extends ActionResponse>> getActions() {
    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));
    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 (it's 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));
}
package org.elasticsearch.license;

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

public class GetLicenseRequest extends MasterNodeReadRequest<GetLicenseRequest> {
    public GetLicenseRequest() {
    }
    public GetLicenseRequest(StreamInput in) throws IOException {
        super(in);
    }
    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

package 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.Automata;
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.xpack.core.security.authz.accesscontrol.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.shallowSizeEstimatorInstance(HashSet.class);
    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) {
    this(fieldPermissionsDefinition, initializePermittedFieldsAutomaton(fieldPermissionsDefinition));
}

/** Constructor that enables field-level security based on include/exclude rules. Exclude rules
 * have precedence over include rules. */
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 [link CharacterRunAutomaton]
     */

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 =
        groups.stream()
            .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);
    }
    grantedFieldsAutomaton = MinimizationOperations.minimize(grantedFieldsAutomaton,
        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));
    }

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

/**
 * 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);
}

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;
    return fieldPermissionsDefinition != null ?
        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;
}

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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.core.security.authz.permission;

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

/**
 * A permission that is based on privileges for cluster wide actions
 */
public final class ClusterPermission {

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

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

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

    public ClusterPrivilege privilege() {
        return privilege;
    }

    public boolean check(String action) {
        return predicate.test(action);
    }

    import java.util.function.Predicate;

    /**
     * A permission that is based on privileges for cluster wide actions
     */
    public final class ClusterPermission {

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

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

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

        public ClusterPrivilege privilege() {
            return privilege;
        }

        public boolean check(String action) {
            return predicate.test(action);
        }
    }
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.bytes.BytesReference;
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.ClusterPrivilege;
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.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 RunAsPermission runAs;

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

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

    public ClusterPermission cluster() {
        return cluster;
    }
}

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.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.ClusterPrivilege;
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.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 RunAsPermission runAs;

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

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

    public ClusterPermission cluster() {
        return cluster;
    }
}
public IndicesPermission indices() {
    return indices;
}

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
    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.NONE;
    private RunAsPermission runAs = RunAsPermission.NONE;

}
private List<IndicesPermission.Group> groups = new ArrayList<>();
private FieldPermissionsCache fieldPermissionsCache = null;

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;
    if (rd.getClusterPrivileges().length == 0) {
        cluster = ClusterPermission.NONE;
    } else {
        this.cluster(ClusterPrivilege.get(Sets.newHashSet(rd.getClusterPrivileges())));
    }
    groups.addAll(convertFromIndicesPrivileges(rd.getIndicesPrivileges(), fieldPermissionsCache));
    String[] rdRunAs = rd.getRunAs();
    if (rdRunAs != null && rdRunAs.length > 0) {
        this.runAs(new Privilege(Sets.newHashSet(rdRunAs), rdRunAs));
    }
}

public Builder cluster(ClusterPrivilege privilege) {
    cluster = new ClusterPermission(privilege);
    return this;
}

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

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

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

public Role build() {
    IndicesPermission indices = groups.isEmpty() ? IndicesPermission.NONE :
        new IndicesPermission(groups.toArray(new IndicesPermission.Group[groups.size()]));
    return new Role(names, cluster, indices, 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;
        if (fieldPermissionsCache != null) {
            fieldPermissions = fieldPermissionsCache.getFieldPermissions(privilege.getGrantedFields(), privilege.getDeniedFields());
        } else {
            fieldPermissions = new FieldPermissions(
                new FieldPermissionsDefinition(privilege.getGrantedFields(), privilege.getDeniedFields()));
        }
        final Set<BytesReference> query = privilege.getQuery() == null ? null :
            Collections.singleton(privilege.getQuery());
        list.add(newIndicesPermission.Group(IndexPrivilege.get(Sets.newHashSet(privilege.getPrivileges())),
            fieldPermissions,
            query,
            privilege.getIndices()));
    }
    return list;
}

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 * you may not use this file except in compliance with the Elastic License.
 */

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

import org.apache.lucene.util.automaton.Automaton;
import org.apache.lucene.util.automaton.TooComplexToDetermineException;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.cluster.metadata.AliasOrIndex;
import org.elasticsearch.cluster.metadata.IndexMetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.IndicesAccessControl;
import org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege;
import org.elasticsearch.xpack.core.security.support.Automatons;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
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();

    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 (Exception e) {
            return Automatons.predicate(indices);  // Re-throw to preserve the context
        }
    }
}

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catch (TooComplexToDetermineException 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) {
```java
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
                    }
                }
            }
        }
    }
    return grantedBuilder.isEmpty() ? new HashMap<>() : grantedBuilder;
}
```
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 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;
}

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

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

/**
 * Represents the definition of a FieldPermissions. Field permissions are defined as a collection 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;
    }
}
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
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;
}
*/

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

import org.elasticsearch.xpack.core.security.authz.permission.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 Predicate<String> predicate;

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

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

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

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    private final Predicate<String> predicate;

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

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

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 */

package org.elasticsearch.license;
import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
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();
}

@Override
protected boolean addMockHttpTransport() {
    return false; // enable http
}

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
}

@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();
    licensingClient = new LicensingClient(client());
    ensureYellow();
    assertThat(licensingClient.prepareGetLicense().get().license(), nullValue());
    assertOperationMode(License.OperationMode.MISSING);

    wipeAllLicenses();
}

public void testCloudInternalLicense() 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("cloud_internal", License.VERSION_CURRENT,
System.currentTimeMillis(),
    TimeValue.timeValueMinutes(1));
putLicense(license);
assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
assertOperationMode(License.OperationMode.PLATINUM);
writeCloudInternalMode("gold");
assertOperationMode(License.OperationMode.GOLD);
writeCloudInternalMode("basic");
assertOperationMode(License.OperationMode.BASIC);
}

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("--&gt; restart node");
internalCluster().fullRestart();
ensureYellow();
logger.info("--&gt; await node for disabled");
assertLicenseActive(false);
}

public void testClusterRestartWithOldSignature() throws Exception {
  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("--&gt; restart node");
  internalCluster().fullRestart(); // restart so that license is updated
  ensureYellow();
  logger.info("--&gt; 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("--&gt; 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));
  }
}
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,
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       */
      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,
        }
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));
operationModeFileWatcher.onFileChanged(licenseModePath);
assertThat(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
}

public void testLicenseModeFileIsDirectory() throws Exception {
    licenseModePath = createTempDir();
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.onFileChanged(licenseModePath);
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
}

public void testLicenseModeFileCreatedAfterInit() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    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.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.BytesStreamOutput;
import org.elasticsearch.common.io.stream.StreamInput;
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.test.ESTestCase;
import java.io.IOException;
import java.util.HashMap;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;
import static org.hamcrest.Matchers.sameInstance;

public class PutLicenseResponseTests extends ESTestCase {
    @SuppressWarnings("unchecked")
    public void testSerialization() throws Exception {
        boolean acknowledged = randomBoolean();
        LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID,
                LicensesStatus.EXPIRED);
        Map<String, String[]> ackMessages = randomAckMessages();

        PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);

        XContentBuilder contentBuilder = XContentFactory.jsonBuilder();
        response.toXContent(contentBuilder, ToXContent.EMPTY_PARAMS);
        Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(contentBuilder), false,
                contentBuilder.contentType()).v2();
        assertThat(map.containsKey("acknowledged"), equalTo(true));
        boolean actualAcknowledged = (boolean) map.get("acknowledged");
        assertThat(actualAcknowledged, equalTo(acknowledged));
        assertThat(map.containsKey("license_status"), equalTo(true));
        String actualStatus = (String) map.get("license_status");
        assertThat(actualStatus, equalTo(status.name().toLowerCase(Locale.ROOT)));
        assertThat(map.containsKey("acknowledge"), equalTo(true));
        Map<String, List<String>> actualAckMessages = (Map<String, List<String>>) map.get("acknowledge");
        assertTrue(actualAckMessages.containsKey("message"));
        actualAckMessages.remove("message");
        assertThat(actualAckMessages.keySet(), equalTo(ackMessages.keySet()));
        for (Map.Entry<String, List<String>> entry : actualAckMessages.entrySet()) {
            assertArrayEquals(entry.getValue().toArray(), ackMessages.get(entry.getKey()));
        }
    }
}

import java.io.IOException;
import java.util.HashMap;
import java.util.List;
import java.util.Locale;
import java.util.Map;
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import static org.hamcrest.Matchers.not;
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        Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(contentBuilder), false,
                contentBuilder.contentType()).v2();
        assertThat(map.containsKey("acknowledged"), equalTo(true));
        boolean actualAcknowledged = (boolean) map.get("acknowledged");
        assertThat(actualAcknowledged, equalTo(acknowledged));
        assertThat(map.containsKey("license_status"), equalTo(true));
        String actualStatus = (String) map.get("license_status");
        assertThat(actualStatus, equalTo(status.name().toLowerCase(Locale.ROOT)));
public void testStreamSerialization() throws IOException {
    boolean acknowledged = randomBoolean();
    LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID,
    LicensesStatus.EXPIRED);
    Map<String, String[]> ackMessages = randomAckMessages();

    // write the stream so that we can attempt to read it back
    BytesStreamOutput output = new BytesStreamOutput();
    PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);
    // write it out
    response.writeTo(output);
    StreamInput input = output.bytes().streamInput();
    // read it back in
    response.readFrom(input);

    assertThat(response.isAcknowledged(), equalTo(acknowledged));
    assertThat(response.status(), equalTo(status));
    assertThat(response.acknowledgeMessages(), not(sameInstance(ackMessages)));
    assertThat(response.acknowledgeMessages().size(), equalTo(ackMessages.size()));

    for (String key : ackMessages.keySet()) {
        assertArrayEquals(ackMessages.get(key), response.acknowledgeMessages().get(key));
    }
}

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;
}
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package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
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();
    }

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

    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
    }

    @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 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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* 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.ActionListener;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESSingleNodeTestCase;
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);
    }

    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.common.unit.TimeValue;
    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.timeValueSeconds(5));
    TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
    License silverLicense = TestUtils.generateSignedLicense("silver", TimeValue.timeValueSeconds(2));
    TestUtils.registerAndAckSignedLicenses(licenseService, silverLicense, LicensesStatus.VALID);
    License platinumLicense = TestUtils.generateSignedLicense("platinum", TimeValue.timeValueSeconds(1));
    TestUtils.registerAndAckSignedLicenses(licenseService, platinumLicense, LicensesStatus.VALID);
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), equalTo(goldLicense));
    final License getLicenses = licenseService.getLicense();
    assertThat(getLicenses, 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));
    TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), equalTo(goldLicense));
    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(licensesMetaData.getLicense(), 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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 * or more contributor license agreements. Licensed under the Elastic License;
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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 {
        // Code snippet...
    }
}
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,
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);

    // should have an extra status field, human readable issue_data and expiry_date
    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();

    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);

    // should have an extra status field, human readable issue_data and expiry_date
    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());
}

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);

    // should have an extra status field, human readable issue_data and expiry_date
    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 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.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.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();
    }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    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);
}

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();
        }
    }

    @Override
    public void 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);
}

package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.test.ESTestCase;
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.hamcrest.Matchers.is;

/**
 * Unit tests for the {link XPackLicenseState}
 */
public class XPackLicenseStateTests extends ESTestCase {

/****
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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;
/** 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);
    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 assertAckMessages(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));
```java
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(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));
```

```java
public void testSecurityBasic() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(BASIC, 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));
}
```

```java
public void testSecurityBasicExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(BASIC, false);
    assertThat(licenseState.isAuthAllowed(), is(false));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
}
```

```java
public void testSecurityBasic() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(BASIC, 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.allowed Realm Type(), is(XPackLicenseState.Allowed RealmType.NONE));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}
```

```java
public void testSecurityBasicExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(BASIC, false);
    assertThat(licenseState.isAuthAllowed(), is(false));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
```
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));
}

public void testSecurityStandard() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(STANDARD, true);
    assertThat(licenseState.isAuthAllowed(), is(true));
    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.NATIVE));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityStandardExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(STANDARD, false);
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
    assertThat(licenseState.isAuditingAllowed(), is(false));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NATIVE));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityGold() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(GOLD, true);
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityGold() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(GOLD, true);
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
    assertThat(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);
    
    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);
    
    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);
    
    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 testSecurityAckBasicToNotGoldOrStandard() {
    OperationMode toMode = randomFrom(OperationMode.values(), mode -> mode != GOLD && mode != STANDARD);
    
    assertAckMesssages(XPackField.SECURITY, BASIC, toMode, 0);
}
public void testSecurityAckAnyToTrialOrPlatinum() {
    assertAckMessages(XPackField.SECURITY, randomMode(), randomTrialOrPlatinumMode(), 0);
}

testSecurityAckAnyToTrialStandardGoldOrPlatinumToBasic() {
    assertAckMessages(XPackField.SECURITY, randomMode(), randomTrialStandardGoldOrPlatinumMode(), BASIC, 3);
}

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 testGraphInactivePlatinumGoldTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isGraphAllowed, false);
    assertAllowed(GOLD, false, XPackLicenseState::isGraphAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isGraphAllowed, false);
}

public void testMachineLearningPlatinumTrial() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isMachineLearningAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isMachineLearningAllowed, true);
}

public void testMachineLearningInactivePlatinumGoldTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isMachineLearningAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isMachineLearningAllowed, false);
}
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(false));
}

public void testSqlBasic() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(BASIC, true);
    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
public void testSqlBasicExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(BASIC, false);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlStandard() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(STANDARD, true);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlStandardExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(STANDARD, false);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlGold() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(GOLD, true);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlGoldExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(GOLD, false);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlPlatinum() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, true);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(true));
}
public void testSqlPlatinumExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, false);

    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);
}

/*@*
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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.unit.TimeValue;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;
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),
                    is(equalTo(triggeredTime + expiryDuration * 1000L)));
    }

    import static org.hamcrest.Matchers.equalTo;
    import 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),
                        is(equalTo(triggeredTime + expiryDuration * 1000L)));
        }
    }
*/
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() + 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()));
}

package org.elasticsearch.license;

import org.elasticsearch.common.io.Streams;
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;

@ESIntegTestCase.ClusterScope(scope = SUITE)
public class StartBasicLicenseTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected boolean addMockHttpTransport() {
        return false; // enable http
    }

    @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").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("GET", "/_xpack/license/basic_status");
        String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
                StandardCharsets.UTF_8));
    }
}
```java
assertEquals(200, response.getStatusLine().getStatusCode());
assertEquals("{"eligible_to_start_basic":true}", body);

Response response2 = restClient.performRequest("POST", "/_xpack/license/start_basic?acknowledge=true");
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("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("GET", "/_xpack/license/basic_status");
String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response4.getStatusLine().getStatusCode());
assertEquals("{"eligible_to_start_basic":false}", body4);

ResponseException ex = expectThrows(ResponseException.class,
    () -> restClient.performRequest("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("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, \n  \"please read the following messages and call /start_basic again, this time with the \n\"acknowledge=true\\"\"\"));
}
/*
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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 com.carrotsearch.randomizedtesting.RandomizedTest;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.DateMathParser;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.settings.Settings;
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.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 = new DateMathParser(formatDateTimeFormatter);
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";
    } else {
        subscriptionType = null;
        type = randomFrom("basic", "dev", "gold", "silver", "platinum");
    }
}
```java
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();
    licenses.endObject();
    return Strings.toString(licenses);
}

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.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 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;
}

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());
    return SelfGeneratedLicense.create(specBuilder, License.VERSION_START_DATE);
}

/**
 * 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.
 */
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());
}

public static License generateSignedLicense(License.Builder builder) throws Exception {
    LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}

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

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

public static License generateExpiredNonBasicLicense(String type) throws Exception {
    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())

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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<>();
}

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

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

/**
 * A license state that makes the [@link #update(License.OperationMode, boolean)]
 * method public for use in tests.
 */
public static class UpdatableLicenseState extends XPackLicenseState {
    public UpdatableLicenseState() {
        this(Settings.EMPTY);
    }
    public UpdatableLicenseState(Settings settings) {
        super(settings);
    }
    @Override
    public void update(License.OperationMode mode, boolean active) {
        super.update(mode, active);
    }
}

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

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;

package org.elasticsearch.license;

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 * you may not use this file except in compliance with the Elastic License.
 */

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,
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)
        .issuedTo("name")
        .maxNodes(1000)
        .issueDate(dateMath("now-10h", now))
        .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());
}
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(MetaData.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
licenseMetaData.getLicense().expirationDate());
assertEquals(uid, licenseMetaData.getLicense().uid());

package org.elasticsearch.license;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterModule;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.metadata.RepositoriesMetaData;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.ToXContent.Params;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.test.ESTestCase;
import java.util.Collections;
import java.util.UUID;
import java.util.stream.Collectors;
import java.util.stream.Stream;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.notNullValue;
import static org.hamcrest.Matchers.nullValue;

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());
}

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
    RepositoriesMetaData(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 = metaDataBuilder.build().toXContent(builder, params);
builder.endObject();
// deserialize metadata again
MetaData metaData = MetaData.Builder.fromXContent(createParser(builder));
// check that custom metadata still present
assertThat(metaData.custom(licensesMetaData.getWriteableName()), notNullValue());
assertThat(metaData.custom(repositoriesMetaData.getWriteableName()), notNullValue());
}

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();

LicensesMetaDta metaDtaFromXContent = getLicensesMetaDtaFromXContent(createParser(bUILDER));
assertThat(metaDtaFromXContent.getLicense(), equalTo(LicensesMetaDta.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();

LicensesMetaDta metaDtaFromXContent = getLicensesMetaDtaFromXContent(createParser(bUILDER));
assertThat(metaDtaFromXContent.getLicense(), equalTo(LicensesMetaDta.LICENSE_TOMBSTONE));
assertEquals(metaDtaFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}

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

@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.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.io.Streams;
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 boolean addMockHttpTransport() {
        return false; // enable http
    }

    @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").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("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("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\"));
assertTrue(body2.contains("\"error_message\":\"Operation failed: Needs acknowledgement.\"\"));
assertTrue(body2.contains("\"acknowledged\":false\"));

assertBusy(() -> {
    GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals("basic", getLicenseResponse.license().type());
});

String type = randomFrom(LicenseService.VALID_TRIAL_TYPES);

Response response3 = restClient.performRequest("POST", "/_xpack/license/start_trial?acknowledge=true&type=" + type);
String body3 = Streams.copyToString(new InputStreamReader(response3.getEntity().getContent(), StandardCharsets.UTF_8));
assertEquals(200, response3.getStatusLine().getStatusCode());
assertTrue(body3.contains("\"trial_was_started\":true\"));
assertTrue(body3.contains("\"type\":" + type + ","));
assertTrue(body3.contains("\"acknowledged\":true\"));

assertBusy(() -> {
    GetLicenseResponse postTrialLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals(type, postTrialLicenseResponse.license().type());
});

Response response4 = restClient.performRequest("GET", "/_xpack/license/trial_status");
String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(), StandardCharsets.UTF_8));
assertEquals(200, response4.getStatusLine().getStatusCode());
assertEquals("{"eligible_to_start_trial":false}", body4);

String secondAttemptType = randomFrom(LicenseService.VALID_TRIAL_TYPES);

ResponseException ex = expectThrows(ResponseException.class, 
    () -> restClient.performRequest("POST", "/_xpack/license/start_trial?acknowledge=true&type=" + secondAttemptType));
Response response5 = ex.getResponse();
String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(), StandardCharsets.UTF_8));
assertEquals(200, response5.getStatusLine().getStatusCode());
assertEquals("{"eligible_to_start_trial":false}", body5);
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.\"");
    }

    public void testInvalidType() throws Exception {
        ensureStartingWithBasic();

        ResponseException ex = expectThrows(ResponseException.class, () ->
            getRestClient().performRequest("POST", "/_xpack/license/start_trial?type=basic");
        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.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.common.bytes.BytesReference;
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.XContentType;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.test.ESTestCase;
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 java.util.UUID;
import static org.elasticsearch.license.CryptUtils.encryptV3Format;
import static org.elasticsearch.license.CryptUtils.encryptV3Format;
import static org.hamcrest.Matchers.equalTo;
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")
        .type(randomBoolean() ? "trial" : "basic")
        .maxNodes(5)
        .issueDate(issueDate)
        .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
    License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
    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"),

public void testTrialLicenseVerifyWithOlderVersion() throws Exception {
    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.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));
    }
}

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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();
    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());
    assertExpirationCallbackDelay(pre, expiryDuration.millis(), latestValidTriggerDelay, earliestValidTriggerDelay);
}
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 + 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.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 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).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);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionFuture;
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.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 {

    @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 = 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);
    putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
        GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(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);
DeleteLicenseResponse deleteLicenseResponse = deleteLicenseRequestBuilder.get();
assertThat(deleteLicenseResponse.isAcknowledged(), equalTo(true));

// get licenses (expected no licenses)
GetLicenseResponse 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)
            .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));
}

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.license;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
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));

putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
// ensure license was installed and no acknowledgment 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 acknowledgment 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;

    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;
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.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.Version;
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 newState = ClusterState.builder(new ClusterName("a")).metaData(metaData).build();
    ClusterState oldState = ClusterState.builder(newState).build();
    licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
    assertThat(licenseState.activeUpdates.size(), equalTo(0));
}

public void testSelfGeneratedLicenseGeneration() throws Exception {
    DiscoveryNode master = new DiscoveryNode("b", buildNewFakeTransportAddress(), emptyMap(), emptySet(), Version.CURRENT);
    ClusterState oldState = ClusterState.builder(new ClusterName("a"))
        .nodes(DiscoveryNodes.builder().masterNodeId(master.getId()).add(master)).build();
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
    ClusterState newState = ClusterState.builder(oldState).nodes(discoveryNodes).build();
    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);
    assertNotNull(licenseMetaData);
    assertNotNull(licenseMetaData.getLicense());
    assertEquals(licenseType, licenseMetaData.getLicense().type());
    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());
}

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

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.test.ESTestCase;

import org.elasticsearch.xpack.core.security.common.Setting;
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] +
                                        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[1]{};
allowed2 = new String[1]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
denied1 = new String[1]{};
denied2 = new String[1]{allowed2[0] + "a", allowed2[1] + "a"};
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));

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));
assertSame(mergedFieldPermissions.grantsAccessTo("a"));
assertSame(mergedFieldPermissions.grantsAccessTo("b"));

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));
assertSame(mergedFieldPermissions.grantsAccessTo("a"));
assertSame(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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```json
{
  "xpack.license.get_basic_status": {
    "methods": ["GET"],
    "url": {
      "path": "/_xpack/license/basic_status",
      "paths": ["/_xpack/license/basic_status"],
      "parts": []
    }
  }
}
```
"params": { },
"body": null
}
}

"xpack.license.get_trial_status": {
"methods": ["GET"],
"url": { "path": "/_xpack/license/trial_status",
"paths": ["/_xpack/license/trial_status"],
"parts": {},
"params": {},
"body": null
}
}

"xpack.license.delete": {
"methods": ["DELETE"],
"url": { "path": "/_xpack/license",
"paths": ["/_xpack/license"],
"parts": {} },
"body": null
}
}

"xpack.license.post_start_trial": {
"methods": ["POST"],
"url": { "path": "/_xpack/license/start_trial",
"paths": ["/_xpack/license/start_trial"],
"parts": {} },
"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)"
}
}
,"body": null
}
}

"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
}
}

"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
}
}

"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"
}

---

```
teardown:
- do:
xpack.license.post:
  acknowledge: true
  body: |
    {"licenses":[{"uid":"3aa62ffe-36e1-4fad-bfdc-9df8301eb22","type":"trial","issue_date_in_millis":1523456691721,"expiry_date_in_millis":1838816691721,"max_nodes":5,"issued_to":"customer","issuer":"elasticsearch","signature":"AAAABAAAA2kWNcuc+DT0lrlmYZKA AAIAo5/x6hrsGh1GqqJmy4qgmEC7gK0U4zQ6q5ZEMhm4jAABABEn6f9y2VxKBU2T3D5hffh56kzQOD C0dhr0y2d17ZSIJMRqO7ZywPCWNS1aR33GhFhKTER0ysML0xMH/gXahyRvMBndLj0UBKzuwpTawSlnx YtcqN8mSBivJ7C7Kiu+iJSpAILC2z9pnkRlwqxqBtwfYn7xnZgu9DKrOWru/0pTPObo7jcePI8VT6nWfen7/h CFDQQTUFZ0jQvd=\n"start_date_in_millis":-1}]
```

"Installing and getting license works":

## current license version
- do:
xpack.license.post:
  acknowledge: true
  body: |
    {"licenses":[{"uid":"894371dc-9t49-4997-93cb-8o2e3r7fa6a8","type":"trial","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1916956799999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAgAAAIkWh0T9njItjQ2qammAAABmC 9ZN0hjZDBGynYxRXpCOW5b3FzDAxOWpSbTVoMVZwUzRxVkB1bPmXaXzDw51MhlTHNoN1N2MXM vRFk4d3JITZEx3R3RRZ0pzu3l0bWJKZnQvSEFva0ppTHBkWkpZWSZQi9iNnRQ NKw1SlpL001DalZCS095M XRGN11IZlpYcVVTTHnFrcTE2dhZlZmZrdFQrN3JQeGxb0U0MZX0dDJHSEiZTVLOHnzSDByWnpoZEpZH"}]}
acknowledge: true
body: |

"licenses":{
  "uid":"893361dc-9749-4997-93cb-802e3d7fa4a8",
  "type":"subscription",
  "subscription_type":"gold",
  "issue_date_in_millis":1419488000000,
  "feature":"shield",
  "expiry_date_in_millis":1914278399999,
  "max_nodes":1,
  "issued_to":"issuer",
  "signature":null
}

- do:
  - xpack.license.get: {}  
  - length: { license: 11 }

## multiple licenses version: 1.x

- do:
  - xpack.license.post:
    acknowledge: true
    body: |
      "licenses":{
        "uid":"893361dc-9749-4997-93cb-802e3d7fa4a8",
        "type":"subscription",
        "subscription_type":"gold",
        "issue_date_in_millis":1419488000000,
        "feature":"shield",
        "expiry_date_in_millis":1914278399999,
        "max_nodes":1,
        "issued_to":"issuer",
        "signature":null
      }

- match: { license_status: "valid" }

- do:
  - xpack.license.get: {}

- length: { license: 11 }

## multiple licenses version: 1.x

- do:
  - xpack.license.post:
    acknowledge: true
    body: |
      "licenses":{
        "uid":"893361dc-9749-4997-93cb-802e3d7fa4a8",
        "type":"subscription",
        "subscription_type":"gold",
        "issue_date_in_millis":1419488000000,
        "feature":"shield",
        "expiry_date_in_millis":1914278399999,
        "max_nodes":1,
        "issued_to":"issuer",
        "signature":null
      }

- match: { license_status: "valid" }

- do:
  - xpack.license.get: {}

- length: { license: 11 }

## multiple licenses version: 1.x

- do:
  - xpack.license.post:
    acknowledge: true
    body: |
      "licenses":{
        "uid":"893361dc-9749-4997-93cb-802e3d7fa4a8",
        "type":"subscription",
        "subscription_type":"gold",
        "issue_date_in_millis":1419488000000,
        "feature":"shield",
        "expiry_date_in_millis":1914278399999,
        "max_nodes":1,
        "issued_to":"issuer",
        "signature":null
      }

- match: { license_status: "valid" }

- do:
  - xpack.license.get: {}

- length: { license: 11 }

## multiple licenses version: 1.x

- do:
  - xpack.license.post:
    acknowledge: true
    body: |
      "licenses":{
        "uid":"893361dc-9749-4997-93cb-802e3d7fa4a8",
        "type":"subscription",
        "subscription_type":"gold",
        "issue_date_in_millis":1419488000000,
        "feature":"shield",
        "expiry_date_in_millis":1914278399999,
        "max_nodes":1,
        "issued_to":"issuer",
        "signature":null
      }

- match: { license_status: "valid" }

- do:
  - xpack.license.get: {}

- length: { license: 11 }

## multiple licenses version: 1.x

- do:
  - xpack.license.post:
    acknowledge: true
    body: |
      "licenses":{
        "uid":"893361dc-9749-4997-93cb-802e3d7fa4a8",
        "type":"subscription",
        "subscription_type":"gold",
        "issue_date_in_millis":1419488000000,
        "feature":"shield",
        "expiry_date_in_millis":1914278399999,
        "max_nodes":1,
        "issued_to":"issuer",
        "signature":null
      }

- match: { license_status: "valid" }

- do:
  - xpack.license.get: {}

- length: { license: 11 }

## multiple licenses version: 1.x

- do:
  - xpack.license.post:
    acknowledge: true
    body: |
      "licenses":{
        "uid":"893361dc-9749-4997-93cb-802e3d7fa4a8",
        "type":"subscription",
        "subscription_type":"gold",
        "issue_date_in_millis":1419488000000,
        "feature":"shield",
        "expiry_date_in_millis":1914278399999,
        "max_nodes":1,
        "issued_to":"issuer",
        "signature":null
      }

- match: { license_status: "valid" }

- do:
  - xpack.license.get: {}

- length: { license: 11 }

## multiple licenses version: 1.x

- do:
  - xpack.license.post:
    acknowledge: true
    body: |
      "licenses":{
        "uid":"893361dc-9749-4997-93cb-802e3d7fa4a8",
        "type":"subscription",
        "subscription_type":"gold",
        "issue_date_in_millis":1419488000000,
        "feature":"shield",
        "expiry_date_in_millis":1914278399999,
        "max_nodes":1,
        "issued_to":"issuer",
        "signature":null
      }

- match: { license_status: "valid" }

- do:
  - xpack.license.get: {}

- length: { license: 11 }

## multiple licenses version: 1.x

- do:
  - xpack.license.post:
    acknowledge: true
    body: |
      "licenses":{
        "uid":"893361dc-9749-4997-93cb-802e3d7fa4a8",
        "type":"subscription",
        "subscription_type":"gold",
        "issue_date_in_millis":1419488000000,
        "feature":"shield",
        "expiry_date_in_millis":1914278399999,
        "max_nodes":1,
        "issued_to":"issuer",
        "signature":null
      }

- match: { license_status: "valid" }

- do:
  - xpack.license.get: {}

- length: { license: 11 }

## multiple licenses version: 1.x

- do:
  - xpack.license.post:
    acknowledge: true
    body: |
      "licenses":{
        "uid":"893361dc-9749-4997-93cb-802e3d7fa4a8",
        "type":"subscription",
        "subscription_type":"gold",
        "issue_date_in_millis":1419488000000,
ZwUzRxVkJ1PSmkxakxZdW51MlhiTHNoN1N2MXMvRFk4d3JTZEx3R3RRZ0pzU3loWJKZnQvSEFva0ppTHBkWkprZWSQ9i1NmRQNkw1SlpLN0lDalZCS095M5RX11ZI2pYe1VTTnFrcTE2dzhJZmZrdFQrN3JQeGwxbo0U0MXZ0dDJHSErIZTVOHnzSDByWnpoZEPhZHBEZ1U5vTVBSRENNSXsNWVlJzl0aDdzVmEzUjNlWkx7NGM5TUhQV2paU04Q1JOUm14MXNlu0jS0EhQwVBzazhsmUk9QVzhFeFoM10QraXSG53MWk2K055c28zSmNvVkbFib2JSQkFDVnVHZnVHNDZ2R3o2VE1qBVNS2ix0H5N5bUEzZl1NFsv9zINIWkZSVmZlIWEtawS9u9tTJENDVvT1NCKyklacUYYyK2FwR9w9xa6fdldMmzn5GItqC3FWOTGzZ3UcXMvQkt2RUZwMFJnzZlV1.2d2bDRWUzh6UG5pdENQWFReXNKNkE9PQAQAACQc94djauopnDZR3Uuyip0iri3aQJ+tvVqeeu8U79gsa5n1qjcHDh7HVIBJEkF+tvVPLO/PXV/x7BZSwvVY1PVrErit+frYixy1yuHEggwuxmx/VdRJCaZM6tk0Ob4dZCPv6EbnMm5k89KHCPWiLPqF6QfWvKpka8k2A3ORJnvYSDvXhe66Cs8dq4ebsFxrZjwh5CZSPzqZBFXIngDv2N0hHhpGlueRszD0J5dfeLE5ZAI1DD0rgO90JOvjejSHyRqe1L5QRUNdXPFtS+EAG0Dd1cNdJ1sMPCpVbjw6iq2/YgM3cuzzTXVBY7ij4WnoP3ce7Zs9TtWh+iqzftC6"]

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }
- match: { license.uid: "893361dc-9749-4997-93cb-802e3d0fh7aa" }

---

"Should throw 404 after license deletion":

- do:
  xpack.license.delete: {}

- do:
  xpack.license.get: {}
  catch: missing

---

"Should install a feature type license":

# VERSION_NO_FEATURE_TYPE license version

- do:
  xpack.license.post:
    acknowledge: true
    body: |
      {"license": {$uid": "893361dc-9749-4997-93cb-802e3d0fh4a8"},"type": "gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":191427839999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":null,"acknowledged":true}

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }

---

"Cannot start basic":

- do:
  catch: bad_request
  xpack.license.post:
    acknowledge: true
    body: |
    
    
---

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

- 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.' }

---

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

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

---

"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:
  catch: forbidden
  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.ElasticsearchSecurityException;
import org.elasticsearch.action.support.PlainActionFuture;
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.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.persistent.PersistentTasksCustomMetaData;
import org.elasticsearch.xpack.ml.LocalStateMachineLearning;
import org.elasticsearch.xpack.ml.support.BaseMlIntegTestCase;
import org.junit.Before;
import java.util.Collections;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.hasItem;
import static org.hamcrest.Matchers.is;
@TestLogging("org.elasticsearch.xpack.ml.action:DEBUG")
public class MachineLearningLicensingTests extends BaseMlIntegTestCase {

    @Before
    public void resetLicensing() {
        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)) {
            client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
            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 not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    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 testMachineLearningPutJobActionRestricted() throws Exception {
    String jobId = "testmachinelearningputjobactionrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do not work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response response = putJobListener.actionGet();
        assertNotNull(response);
    } 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 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());
        PlainActionFuture<OpenJobAction.Response> 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) {
        catch (ElasticsearchSecurityException e) { // 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(internalCluster().getDataNodeInstance(Transport.class).boundAddress());
    PlainActionFuture<OpenJobAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), listener);
    OpenJobAction.Response 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());
        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());
    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);
    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<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
OpenJobAction.Response openJobResponse = openJobListener.actionGet();
assertNotNull(openJobResponse);
// start datafeed
PlainActionFuture<StartDatafeedAction.Response> 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<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    OpenJobAction.Response openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
    // start datafeed
    PlainActionFuture<StartDatafeedAction.Response> 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(PersistentTasksCustomMetaDataType.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();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaDataType.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 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(datafeedIndex)), putDatafeedListener);
PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
assertNotNull(putDatafeedResponse);
PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
OpenJobAction.Response 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<StartDatafeedAction.Response> 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<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    OpenJobAction.Response openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
}
}

public void testMachineLearningStopDatafeedActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningstopdatafeedactionnotrestricted";
    String datafeedId = jobId + ",-datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + ",-data";
    prepareCreate(datafeedIndex).addMapping("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)) {
        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(datafeedIndex))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);
        PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        OpenJobAction.Response openJobResponse = openJobListener.actionGet();
        assertNotNull(openJobResponse);
        PlainActionFuture<StartDatafeedAction.Response> startDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
            listener);
        StartDatafeedAction.Response response = listener.actionGet();
        assertNotNull(response);
    }
}
StartDatafeedAction.Response startDatafeedResponse = startDatafeedListener.actionGet();
assertNotNull(startDatafeedResponse);
}

boolean invalidLicense = randomBoolean();
if (invalidLicense) {
    enableLicensing(randomInvalidLicenseType());
} else {
    enableLicensing(randomValidLicenseType());
}

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    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());
    });
} else {
    listener.actionGet();
}

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)) {
        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<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
OpenJobAction.Response openJobResponse = openJobListener.actionGet();
assertNotNull(openJobResponse);
}

boolean invalidLicense = randomBoolean();
if (invalidLicense) {
    enableLicensing(randomInvalidLicenseType());
} else {
    enableLicensing(randomValidLicenseType());
}

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<CloseJobAction.Response> listener = PlainActionFuture.newFuture();
    CloseJobAction.Request request = new CloseJobAction.Request(jobId);
    request.setCloseTimeout(TimeValue.timeValueSeconds(20));
    if (invalidLicense) {
        // the close due to invalid license happens async, so check if the job turns into closed state:
        assertFalse(() -> {
            GetJobsStatsAction.Response response =
                new MachineLearningClient(client).getJobsStats(new GetJobsStatsAction.Request(jobId)).actionGet();
            assertEquals(JobState.CLOSED, response.getResponse().results().get(0).getState());
        });
    } else {
        new MachineLearningClient(client).closeJob(request, listener);
        listener.actionGet();
    }
}

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);
PutJobAction.Response putJobResponse = putJobListener.actionGet();
assertNotNull(putJobResponse);
}

// 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<DeleteJobAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).deleteJob(new DeleteJobAction.Request(jobId), listener);
    listener.actionGet();
}

public void testMachineLearningDeleteDatafeedActionNotRestricted() throws Exception {
    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)) {
        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.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)) {
        PlainActionFuture<DeleteDatafeedAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).deleteDatafeed(new DeleteDatafeedAction.Request(datafeedId), listener);
    }
}
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);
    }
}

public static void enableLicensing() {
    enableLicensing(randomValidLicenseType());
}

public static void enableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, true);
    }
}

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*/
{
  "metadata": {
    "name": "X-Pack Monitoring: License Expiration",
    "xpack": {
      "link": "license",
      "expires_days": [60, 30, 14, 7],
      "severity": 0,
      "alert_index": ".monitoring-alerts-6",
      "cluster_uuid": "${monitoring.watch.cluster_uuid}",
      "type": "monitoring",
      "version_created": 7000001,
      "alert_index": ".monitoring-alerts-6",
      "cluster_uuid": "${monitoring.watch.cluster_uuid}",
      "type": "monitoring",
      "version_created": 7000001,
      "alert_index": ".monitoring-alerts-6",
      "cluster_uuid": "${monitoring.watch.cluster_uuid}",
      "type": "monitoring",
      "version_created": 7000001,
      "watch": "${monitoring.watch.id}"
    }
  },
  "trigger": {
    "schedule": {
      "interval": "1m"
    }
  },
  "input": {
    "inputs": {
      "check": {
        "search": {
          "request": {
            "indices": [".monitoring-es-*",
                         ".monitoring-alerts-6"],
            "body": {
              "size": 1,
              "sort": {
                "timestamp": {
                  "order": "desc"
                }
              },
              "_source": ["license,*"]
            }
          }
        }
      }
    }
  }
}
"bool": {
    "filter": [
        {
            "term": {
                "cluster_uuid": "{{ctx.metadata.xpack.cluster_uuid}}"  
            }
        },
    
        {
            "term": {
                "type": "cluster_stats"  
            }
        },
    
        {
            "range": {
                "timestamp": {
                    "gte": "now-2m"  
                }
            }
        }
    ]
},

"alert": {
    "search": {
        "request": {
            "indices": [".monitoring-alerts-6"],
            "body": {
                "size": 1,
                "terminate_after": 1,
                "query": {
                    "bool": {
                        "filter": {
                            "term": {
                                "_id": "{{ctx.watch_id}}"  
                            }
                        }
                    }
                },
                "sort": ["timestamp": "desc"]  
            }
    }  
}
"kibana_settings": {
  "search": {
    "request": {
      "indices": [
        ".monitoring-kibana-6-*"
      ],
      "body": {
        "size": 1,
        "query": {
          "bool": {
            "filter": {
              "term": {
                "type": "kibana_settings"  
              }
            }
          }
        }
      }
    },
    "sort": [
      {
        "timestamp": {
          "order": "desc"  
        }
      }
    ]
  }
},
"condition": {
  "script": {
    "source": "if (ctx.payload.check.hits.total == 0) {return false;}def license = ctx.payload.check.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.expired = true;ctx vars.fails_check = true;ctx metadata.xpack severity = 2001;}
                    } return true;}}"
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.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;if (ctx.vars.fails_check == false) { 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}}metadata.time{{/relativeTime}} at {{#absoluteTime}}metadata.time{{/absoluteTime}}.',
'message': alertMessage, 'metadata': ctx.metadata.xpack }; } if (ctx.vars.fails_check) { ctx.payload.metadata.time =
ctx.vars.expiry.toString(); } ctx.payload.update_timestamp = ctx.execution_time;return ctx.payload;";

  },

  "actions": {
    "add_to_alerts_index": {
      "index": {
        "index": ".monitoring-alerts-6",
        "doc_type": "doc",
        "doc_id": "${monitoring.watch.unique_id}";
      },
    },

    "send_email_to_admin": {
      "condition": {
        "script": "return ctx.vars.email_recipient != null & & (ctx.vars.is_new || ctx.vars.is_resolved)"
      },

      "email": {
        "to": "X-Pack Admin <{ctx.vars.email_recipient}>",
        "from": "X-Pack Admin <{ctx.vars.email_recipient}>",
        "subject": "\{#ctx.vars.is_new\}NEW\{#/ctx.vars.is_new\}\{#ctx.vars.is_resolved\}\{#/ctx.vars.is_resolved\}\RESOLVED\{#/ctx.vars.is_resolved\}\{ctx.metadata.name\}";

        "body": {
          "text": "\{#ctx.vars.is_resolved\}This cluster alert has been resolved: \{#/ctx.vars.is_resolved\} This cluster's license \{#ctx.vars.is_new\} is going to expire on
\{ctx.payload.metadata.time\}\{#/ctx.vars.is_new\}\{#/ctx.vars.is_resolved\}\{#ctx.vars.is_resolved\} was going to expire\{ctx.payload.metadata.time\}\{#/ctx.vars.is_new\}\{#/ctx.vars.is_resolved\}.
\{#ctx.vars.is_new\}\{ctx.payload.message\}\{#/ctx.vars.is_new\}";
        }
      }
    }
  }
}
/*
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 */

package org.elasticsearch.license;

import org.apache.http.message.BasicHeader;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.action.DocWriteResponse;
import org.elasticsearch.action.admin.cluster.health.ClusterHealthResponse;
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.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.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.MockHttpTransport;
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.test.transport.TestXPackTransportClient;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.security.SecurityField;
import org.elasticsearch.xpack.core.security.action.user.GetUsersResponse;
import org.elasticsearch.xpack.core.security.authc.support.UsernamePasswordToken;
import org.elasticsearch.xpack.security.client.SecurityClient;
import org.elasticsearch.node.MockStateSecurity;
import org.elasticsearch.test.junit.After;
import org.elasticsearch.test.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 static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
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 + "\n" +
    "  cluster: [ all ]\n" +
    "  indices:\n" +
    "    - names: \n" +
    "      privileges: [manage]\n" +
    "    - names: /.*\n" +
    "      privileges: [write]\n" +
    "    - names: \n" +
    "      privileges: [read]\n" +
    "    - names: /\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];

    public static final String USERS =
    SecuritySettingsSource.CONFIG_STANDARD_USER +
    "user_a:{plain}passwd\n" +
    "user_b:{plain}passwd\n";

    public static final String USERS_ROLES =
    SecuritySettingsSource.CONFIG_STANDARD_USER_ROLES +
    "user_a:{plain}PASSWDUSER\n" +
    "user_b:{plain}PASSWDUSER\n";

    @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 + "\n" +
    "  cluster: [ all ]\n" +
    "  indices:\n" +
    "    - names: \n" +
    "      privileges: [manage]\n" +
    "    - names: /.*\n" +
    "      privileges: [write]\n" +
    "    - names: \n" +
    "      privileges: [read]\n" +
    "    - names: /\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];

    public static final String USERS =
    SecuritySettingsSource.CONFIG_STANDARD_USER +
    "user_a:{plain}passwd\n" +
    "user_b:{plain}passwd\n";

    public static final String USERS_ROLES =
    SecuritySettingsSource.CONFIG_STANDARD_USER_ROLES +
    "user_a:{plain}PASSWDUSER\n" +
    "user_b:{plain}PASSWDUSER\n";
"role_a:user_a,role_b\n" +
"role_b:user_b\n";

@Override
protected String configRoles() {
    return ROLES;
}

@Override
protected String configUsers() {
    return USERS;
}

@Override
protected String configUsersRoles() {
    return USERS_ROLES;
}

@Override
protected boolean addMockHttpTransport() {
    return false; // enable http
}

@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;
}

@Override
public Settings nodeSettings(int nodeOrdinal) {
    return Settings.builder().put(super.nodeSettings(nodeOrdinal))
        .put(TestZenDiscovery.USE_MOCK_PINGS.getKey(), false)
        .build();
}

@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();
    assertNotNull(clusterStatsNodeResponse);
    ClusterStatsIndices indices = clusterStatsNodeResponse.getIndicesStats();
    assertNotNull(indices);
    assertNotNull(indices.getClusterName());
    assertNotNull(indices.getIndexCount());

    ClusterHealthResponse clusterIndexHealth = client.admin().cluster().prepareHealth().get();
    assertNotNull(clusterIndexHealth);

    NodesStatsResponse nodeStats = client.admin().cluster().prepareNodesStats().get();
assertThat(nodeStats, notNullValue());
}

global void testRestAuthenticationByLicenseType() throws Exception {
Response response = getRestClient().performRequest("GET", "/");
// the default of the licensing tests is basic
assertThat(response.getStatusLine().getStatusCode(), is(200));
ResponseException e = expectThrows(ResponseException.class,
() -> getRestClient().performRequest("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("GET", "/");
assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));
e = expectThrows(ResponseException.class,
() -> getRestClient().performRequest("GET", "/_xpack/security/_authenticate"));
assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));

final String basicAuthValue =
UsernamePasswordToken.basicAuthHeaderValue(SecuritySettingsSource.TEST_USER_NAME,
new SecureString(SecuritySettingsSourceField.TEST_PASSWORD.toCharArray()));
response = getRestClient().performRequest("GET", "/", new BasicHeader("Authorization", basicAuthValue));
assertThat(response.getStatusLine().getStatusCode(), is(200));
response = getRestClient().performRequest("GET", "/_xpack/security/_authenticate",
new BasicHeader("Authorization", basicAuthValue));
assertThat(response.getStatusLine().getStatusCode(), is(200));
}

global 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().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
new SecurityClient(client).prepareGetUsers().get();
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 not work!
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress);
        GetUsersResponse response = new SecurityClient(client).prepareGetUsers().get();
        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);
    }
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)
    .put(DiscoveryModule.DISCOVERY_TYPE_SETTING.getKey(), "test-zen")
    .put(DiscoveryModule.DISCOVERY_HOSTS_PROVIDER_SETTING.getKey(), "test-zen")
    .build();
Collection<Class<? extends Plugin>> mockPlugins = Arrays.asList(LocalStateSecurity.class,
    TestZenDiscovery.TestPlugin.class,
    MockHttpTransport.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);
    }
}

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

import org.elasticsearch.action.get.GetAction;
import org.elasticsearch.action.get.GetRequest;
import org.elasticsearch.action.get.GetResponse;
import org.elasticsearch.action.get.support.GetRequestBuilder;
import org.elasticsearch.action.search.SearchAction;
import org.elasticsearch.action.search.SearchRequest;
import org.elasticsearch.action.search.SearchResponse;
import org.elasticsearch.action.search.support.SearchRequestBuilder;
import org.elasticsearch.client.Client;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.index.shard.IndexShardRoutingTable;
import org.elasticsearch.index.shard.ShardRoutingState;
import org.elasticsearch.search.SearchHit;
import org.elasticsearch.search.builder.SearchSourceBuilder;
import org.elasticsearch.search.sort.SortField;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.permission.Role;
import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege;
import org.junit.Before;
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.xpack.security.authz.permission;

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;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition;
import java.util.ArrayList;
import java.util.List;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicReferenceArray;
import static org.hamcrest.Matchers.containsString;

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" });
    new String[] { "f3", "f4" });
    q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], " +
    "field_security": { " +
    "except": ["f3","f4"], " +
    "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" });
    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);
    assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
    q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], " +
    "field_security": { " +
    "except": ["f1","f2"], " +
    "grant": ["f1", "f2"], " +
    "] } ] }";
    rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
    assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
    q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], " +
    "field_security": { " +
    "except": ["f1","f2"], " +
    "grant": ["f1", "f2"], " +
    "] } ] }";
    rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
    assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
}
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" + "] } ]}];

ElasticsearchParseException 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" + "] ]}];

ElasticsearchParseException 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.");

final String exceptGrantNull = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": ["p3"], " + "\"field_security\": { " + "\"grant\": null," + "\"except": null" + "] ]}];

ElasticsearchParseException 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": null" + "] ]}];
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"}],
"privileges": ["p3"]}], " +
"names": "idx3", " +
"field_security": {"grant": [], "except": ["f2"]},
"privileges": ["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[]{"f1", "f2"});
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
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[]{});
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));
}

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<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <link rel="dns-prefetch" href="https://assets-cdn.github.com">
    <link rel="dns-prefetch" href="https://avatars0.githubusercontent.com">
    <link rel="dns-prefetch" href="https://avatars1.githubusercontent.com">
    <link rel="dns-prefetch" href="https://avatars2.githubusercontent.com">
    <link rel="dns-prefetch" href="https://avatars3.githubusercontent.com">
    <link rel="dns-prefetch" href="https://github-cloud.s3.amazonaws.com">
    <link rel="dns-prefetch" href="https://user-images.githubusercontent.com/>

    <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/frameworks-2d2d4e150f700385741c6b992b302689ec1d722246c6428904e0813be9beca6.css" media="all" rel="stylesheet" />
    <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/github-0522ae8d3b3bdc841d2f91f90efdf5f1fd9040d910905674cd134ced43a6dfe6.css" media="all" rel="stylesheet" />

    <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/site-
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Nothing to show

Find file

Copy path

NOTICE

commit-tease
Cryptacular Java Library

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 */

package org.elasticsearch.license.licensor;

import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.hash.MessageDigests;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.CryptUtils;
import org.elasticsearch.license.License;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.file.Files;
import java.nio.file.Path;
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 privateKeyPath;
    private final Path publicKeyPath;

    public LicenseSigner(final Path privateKeyPath, final Path publicKeyPath) {

        public LicenseSigner(fina...
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>
 *
 * @return a signed License
 *
 * @param licenseSpec the license to sign
 * @return a signed License
 */
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());
```
uint32_t putInt(magic.length)
   .put(magic)
   .putInt(pubKeyFingerprint.length)
   .put(pubKeyFingerprint)
   .putInt(signedContent.length)
   .put(signedContent);

return License.builder()
   .fromLicenseSpec(licenseSpec, Base64.getEncoder().encodeToString(bytes))
   .build();
}

private byte[] getPublicKeyFingerprint(byte[] keyBytes) {
    MessageDigest sha256 = MessageDigests.sha256();
    sha256.update(keyBytes);
    return sha256.digest();
}
```

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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();
    }
}
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 {
    LicenseSigner signer = new LicenseSigner(priKeyPath, pubKeyPath);
    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);
    }
    builder.version(spec.version);
    return signer.sign(builder.build());
}

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 */
package org.elasticsearch.license.licensor;

import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.DateMathParser;
import org.elasticsearch.common.joda.SimpleDateFormatFormatter;
import org.elasticsearch.common.joda.Joda;
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 =
            new DateMathParser(formatDateTimeFormatter);
    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).longValue();
    }

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

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;
}
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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 {

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

import org.elasticsearch.license.License;
import org.elasticsearch.license.licensor.TestUtils;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;

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();
  }

  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(
            "--publicKeyPath",
            pubKeyPath.toString(),
            "--license",
            TestUtils.dumpLicense(tamperedLicense)));
    assertEquals("Invalid License!", e.getMessage());
    assertEquals(ExitCodes.DATA_ERROR, e.exitCode);
}

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());
}
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);
    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);
}

apply plugin: 'elasticsearch.build'

dependencies {
    compile project(xpackModule('core'))
    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}"
assemble.dependsOn buildZip

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   http://snowball.tartarus.org/

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   analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
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   analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/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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and Edmond Nolan.
The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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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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Charset detection code from ICU4J (http://site.icu-project.org/)

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OSXAdapter

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# 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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May 22, 2015

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The following components are included in this product:

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

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Protocol Buffers for Go with Gadgets

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

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package cmd

import "strings"

//Licenses contains all possible licenses a user can chose from
var Licenses map[string]License

//License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra)
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

// given a license name (in), try to match the license indicated
func matchLicense(in string) string {
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(in, match) {
                return key
            }
        }
    }
    return ""
}

func init() {
    Licenses = make(map[string]License)

    Licenses["apache"] = License{
        Name:            "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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1.23 fluent-plugin-multi-format-parser 0.1.1

1.24 gcache 0.0

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1.25 go 1.10.2
1.25.1 Available under license:

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This repository is build with following third party libraries. Thank you!

## go-diff - https://github.com/sergi/go-diff

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## golcs - https://github.com/yudai/golcs

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## cli.go - https://github.com/codegangsta/cli

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# gomega - https://github.com/onsi/gomega

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1.37 HAProxy 1.8.13
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Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don’t keep them secretly to try to stay over competition.

The solution was then to apply the LGPL license to the exportable include files, while keeping the GPL for all the rest. This way, it still is mandatory to redistribute modified code under customer request, but at the same time, it is expressly permitted to write, compile, link and load non-GPL code using the LGPL header files and not to distribute them if it causes a legal problem.

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Extensions for Protocol Buffers to create more go like structures.

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1.44 intl-messageformat-parser 1.2.0

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1.46 JQuery 1.11.2

1.47 js-yaml 3.12.0

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q        float32
    Params   map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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1.54 mgo github.com/dgrijalva/jwt-go

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1.55 minio 4.0.0

1.56 mjml 4

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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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wscript

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test/internet/testcfg.py
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BSDmakefile
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benchmark/arrays/var_int.js
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vcbuild.bat
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Files: test/fixtures/fork2.js
test/fixtures/sample.png
Copyright:
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Files: doc/api/api/all.html
doc/api/api/net.html
{ //&apos;connection&apos; listener
 console.log(&apos;server connected&apos;);

c.on(&apos;end&apos;,&apos;listener
 console.log(&apos;server disconnected&apos;));

console.log(&apos;server bound&apos;);
});
Test this by using
To listen on the socket `$telnet localhost 8124` the third line from the last would just be changed to:

```javascript
server.listen(`/tmp/echo.sock`, function() {
    // listening
    listener...
});
```

Use `nc` to connect to a UNIX domain socket server:

```bash
nc -U /tmp/echo.sock
```

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FILES:

- `deps/uv/src/unix/eio/LICENSE`
  Copyright: 2007-2008, Marc Alexander Lehmann
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  License: BSD (2 clause)
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- `deps/v8/LICENSE.strongtalk`
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- `deps/v8/tools/presubmit.py`
  Copyright:
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- `deps/v8/src/scanner.cc`
  Copyright: "&& IsCarriageReturn(c0_) | Advance();
  && IsLineFeed(c0_) | Advance();
  2011, the V8 project authors.
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- `deps/v8/src/runtime.cc`
  Copyright: "* kJsonQuotesCharactersPerEntry;
  2011, the V8 project authors.
  >= kQuoteTableLength) {
  HOLDERS AND CONTRIBUTORS
  || c == 0x200b;
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- `tools/waf-light`
  Copyright: "*No copyright*
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Files: deps/v8/src/scanner.h
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<= 5) return c + 10;
<= 9) return c;
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Files: lib/buffer_ieee754.js
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Files: src/platform_darwin_proctitle.cc
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Files: tools/cpplint.py
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[year
message found. '
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Files: deps/v8/src/hydrogen.cc
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Files: deps/v8/src/char-predicates-inl.h
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|| IsInRange(AsciiAlphaToLower, 'a', 'f');
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Files: tools/test.py
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Files: deps/uv/src/unix/eio/aclocal.m4
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(IS_ALPHANUM || == '.' || == '-')
(normal_url_char[(unsigned char)
(unsigned char)(c | 0x20)
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Files: src/node_crypto.cc
Copyright: ( <= '9' ? ( - '0') : <= 'Z' ? ( - 'A' + 10) \
- 'a' + 10))
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[ehit&JH.XyZD 0
z5mXRysMcu)Fl<*Ze%HfU@Z
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Files: doc/api/net.markdown
Copyright: { //'connection' listener
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Files: test/fixtures/person.jpg.gz
Copyright: h$Hn'hdvy\7"?pY0q
bn_LgX]%*cmB+hhhR5jzH!*JVNp0nDB.d4@06wq=HM@\c`=cj$~|_MtUQ&m`bU&NE
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1.65 npm 3.5.2

1.65.1 Available under license:
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Files: AUTHORS
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Makefile
README.md
bin/node-gyp-bin/node-gyp
bin/node-gyp-bin/node-gyp.cmd
bin/npm
bin/npm-cli.js
bin/npm.cmd
bin/read-package-json.js
cli.js
configure
debian/NEWS
debian/README.Debian
debian/README.source
debian/TODO
debian/clean
debian/compat
debian/control
debian/control.in
debian/doc-base.cli
debian/doc-base.files
debian/doc-base.misc
debian/docs
debian/gbp.conf
debian/install
debian/links
debian/manpages
debian/npm.bash-completion
debian/npmrc
debian/patches/2001_unicode_in_md.patch
debian/patches/2002_use_ruby_ronn.patch
debian/patches/2003_fix_doc.patch
debian/patches/2004_remove_shebang.patch
debian/patches/2005_index_build_dont_run_npm.patch
debian/patches/2006_rename_node_to_nodejs.patch
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debian/patches/2008_do_not_require_child-process-close.patch
debian/patches/2009_ansi-color-table.patch
debian/patches/series
debian/rules
debian/source/format
debian/source/local-options
debian/watch
doc/api/npm-bin.md
doc/api/npm-bugs.md
doc/api/npm-cache.md
doc/api/npm-commands.md
doc/api/npm-config.md
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doc/api/npm-edit.md
doc/api/npm-explore.md
doc/api/npm-help-search.md
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doc/api/npm-install.md
doc/api/npm-link.md
doc/api/npm-load.md
doc/api/npm-ls.md
doc/api/npm-outdated.md
doc/api/npm-owner.md
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doc/api/npm-prune.md
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doc/api/npm-repo.md
doc/api/npm-restart.md
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doc/api/npm-test.md
doc/api/npm-uninstall.md
doc/api/npm-unpublish.md
doc/api/npm-update.md
doc/api/npm-version.md
doc/api/npm-view.md
doc/api/npm-whoami.md
doc/api/npm.md
doc/cli/npm-adduser.md
doc/cli/npm-bin.md
doc/cli/npm-bugs.md
doc/cli/npm-build.md
doc/cli/npm-bundle.md
doc/cli/npm-cache.md
doc/cli/npm-completion.md
doc/cli/npm-config.md
doc/cli/npm-dedupe.md
doc/cli/npm-deprecate.md
doc/cli/npm-docs.md
doc/cli/npm-edit.md
doc/cli/npm-explore.md
doc/cli/npm-help-search.md
lib/update.js
lib/utils/completion.sh
lib/utils/completion/file-completion.js
lib/utils/completion/installed-deep.js
lib/utils/completion/installed-shallow.js
lib/utils/depr-check.js
lib/utils/error-handler.js
lib/utils/fetch.js
lib/utils/gently-rm.js
lib/utils/git.js
lib/utils/ls-git-url.js
lib/utils/lifecycle.js
lib/utils/link.js
lib/utils/locker.js
lib/version.js
lib/view.js
lib/whoami.js
lib/xmas.js
make.bat
node_modules/char-spinner/README.md
node_modules/char-spinner/package.json
node_modules/char-spinner/spin.js
node_modules/chmodr/README.md
node_modules/chmodr/chmodr.js
node_modules/chmodr/package.json
node_modules/chmodr/test/basic.js
node_modules/chmodr/test/sync.js
node_modules/chownr/README.md
node_modules/chownr/chownr.js
node_modules/chownr/package.json
node_modules/columnify/Readme.md
node_modules/columnify/index.js
node_modules/columnify/node_modules/.bin/strip-ansi
node_modules/columnify/node_modules/strip-ansi/cli.js
node_modules/columnify/node_modules/strip-ansi/index.js
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node_modules/columnify/node_modules/strip-ansi/node_modules/ansi-regex/package.json
node_modules/columnify/node_modules/wcwidth.js/INSTALL.md
node_modules/columnify/node_modules/wcwidth.js/NEWS
node_modules/columnify/node_modules/wcwidth.js/README.md
node_modules/columnify/node_modules/wcwidth.js/package.json
node_modules/columnify/node_modules/wcwidth.js/width.js
node_modules/columnify/node_modules/utils.js
node_modules/columnify/node_modules/width.js
node_modules/editor/README.markdown
node_modules/editor/example/beep.json
node_modules/editor/example/edit.js
node_modules/editor/index.js
node_modules/fstream-npm/.npmignore
node_modules/fstream-npm/README.md
node_modules/fstream-npm/example/bundle.js
node_modules/fstream-npm/example/dir-tar.js
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node_modules/inflight/README.md
node_modules/inflight/inflight.js
node_modules/inflight/package.json
node_modules/inflight/test.js
node_modules/init-package-json/README.md
node_modules/init-package-json/default-input.js
node_modules/init-package-json/example/example-basic.js
node_modules/init-package-json/example/example-default.js
node_modules/init-package-json/example/example-npm.js
node_modules/init-package-json/example/init/basic-init.js
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node_modules/init-package-json/node_modules/promzard/promzard/test/exports.input
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node_modules/npm-cache-filename/package.json
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dnode_modules/npmconf/lib/load-uid.js
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dnode_modules/npmconf/node_modules/config-chain/readme.markdown
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dnode_modules/npmconf/node_modules/config-chain/test/save.js
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dnode_modules/npmconf/package.json
dnode_modules/npmconf/test/00-setup.js
dnode_modules/npmconf/test/basic.js
dnode_modules/npmconf/test/builtin.js
dnode_modules/npmconf/test/certfile.js
dnode_modules/npmconf/test/fixtures/.npmrc
dnode_modules/npmconf/test/fixtures/builtin
dnode_modules/npmconf/test/fixtures/globalconfig
dnode_modules/npmconf/test/fixtures/multi-ca
dnode_modules/npmconf/test/fixtures/userconfig
dnode_modules/npmconf/test/project.js
dnode_modules/npmconf/test/save.js
dnode_modules/opener/README.md
dnode_modules/opener/opener.js
dnode_modules/path-is-inside/README.md
dnode_modules/path-is-inside/lib/path-is-inside.js
dnode_modules/read-installed/.npmignore
dnode_modules/read-installed/README.md
dnode_modules/read-installed/node_modules/util-extend/README.md
test/tap/ls-no-results.js
test/tap/maybe-github.js
test/tap/noargs-install-config-save.js
test/tap/npm-api-not-loaded-error.js
test/tap/outdated-color.js

test/tap/outdated-depth.js
test/tap/outdated-depth/README.md
test/tap/outdated-depth/index.js
test/tap/outdated-depth/package.json
test/tap/outdated-git.js
test/tap/outdated-git/README.md
test/tap/outdated-git/package.json
test/tap/outdated-include-devdependencies.js

test/tap/outdated-include-devdependencies/package.json
test/tap/outdated-json.js

test/tap/outdated-new-versions.js
test/tap/outdated-new-versions/package.json

test/tap/outdated-notarget.js
test/tap/outdated.js
test/tap/outdated/README.md
test/tap/outdated/index.js

test/tap/outdated/package.json

test/tap/package-with-peer-dep/package.json

test/tap/peer-deps-invalid.js
test/tap/peer-deps-invalid/file-fail.js

test/tap/peer-deps-invalid/file-ok.js

test/tap/peer-deps-invalid/package.json

test/tap/peer-deps-without-package-json.js

test/tap/peer-deps-without-package-json/file-js.js

test/tap/peer-deps.js

test/tap/peer-deps/desired-ls-results.json

test/tap/peer-deps/package.json

test/tap/prepublish.js
test/tap/prune.js

test/tap/prune/package.json

test/tap/publish-config.js

test/tap/referer.js

test/tap/registry.js

test/tap/repo.js

test/tap/scripts-whitespace-windows.js

test/tap/scripts-whitespace-windows/README.md

test/tap/scripts-whitespace-windows/dep/README.md

test/tap/scripts-whitespace-windows/dep/bin/foo

test/tap/scripts-whitespace-windows/dep/package.json

test/tap/scripts-whitespace-windows/package.json

test/tap/semver-doc.js

test/tap/shrinkwrap-dev-dependency.js

test/tap/shrinkwrap-dev-dependency/desired-shrinkwrap-results.json
Files: lib/completion.js
lib/dedupe.js
lib/help.js
lib/install.js
lib/run-script.js
lib/utils/tar.js
node_modules/char-spinner/test/basic.js
node_modules/init-package-json/node_modules/promzard/test/exports.js
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node_modules/init-package-json/node_modules/promzard/example/substack-input.js
Copyright: { return c.toLowerCase() })
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Files-Excluded:
node_modules/abbrev/*
node_modules/ansi/*
node_modules/ansicolors/*
node_modules/ansistyles/*
node_modules/archy/*
node_modules/block-stream/*
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// Original can be found at:
// https://bitbucket.org/lindenlab/lsl
e// Modifications by Joshua Bell inexorabletash@gmail.com

// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01

// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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```javascript
var test = require('tap').test
var init = require('../')
var rimraf = require('rimraf')
var common = require('./lib/common')

test('license', function (t) {
  init(__dirname, '', {}, function (er, data) {
    if (er)
      throw er
    var wanted = {
      name: 'the-name',
      version: '1.0.0',
      description: '',
      scripts: { test: 'echo "Error: no test specified" && exit 1' },
      license: 'Apache-2.0',
      author: '',
      main: 'basic.js'
    }
    console.log('')
    t.has(data, wanted)
    t.end()
  })
})
```
common.drive(
  'the-name
',
  '\n',
  '\n',
  '\n',
  '\n',
  '\n',
  '\n',
  'Apache
',
  'Apache-2.0
',
  'yes\n'

)}
)

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var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

```javascript
var valid = require('validate-npm-package-license');
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
valid('Apache 2.0'),
{
validForOldPackages: false,
validForNewPackages: false,
warnings: [
'license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
"'UNLICENSED", or ' +
"'SEE LICENSE IN <filename>'",
'license is similar to the valid expression "Apache-2.0"
]
}
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
valid('(GPL-3.0 OR BSD-2-Clause)'),
validSPDXExpression
);
```

... except if they contain `LicenseRef`

```javascript
var warningAboutLicenseRef = {
validForOldPackages: false,
validForNewPackages: false,
spdx: true,
warnings: [
'license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
"'UNLICENSED", or ' +
"'SEE LICENSE IN <filename>'",
]
};
```

```javascript
assert.deepEqual(
valid('LicenseRef-Made-Up'),
warningAboutLicenseRef
);
```
If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(valid('SEE LICENSE IN LICENSE.txt'),
{
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'LICENSE.txt'
});
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```
### Installation

#### Package managers

```
```

#### Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

### API

#### spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```javascript
```
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ... ]
...

## License

[The Unlicense](./LICENSE).

- Glide
- Abstyles
- AFL-1.1
- AFL-1.2
- AFL-2.0
- AFL-2.1
- AFL-3.0
- AMPAS
- APL-1.0
- Adobe-Glyph
- APAFML
- Adobe-2006
- AGPL-1.0
- Afmparse
- Aladdin
- ADSL
- AMDPLPA
- ANTLR-PD
- Apache-1.0
- Apache-1.1
- Apache-2.0
- AML
- APSL-1.0
- APSL-1.1
- APSL-1.2
- APSL-2.0
- Artistic-1.0
- Artistic-1.0-Perl
- Artistic-1.0-cl8
- Artistic-2.0
- AAL
- Bahyph
- Barr
- Beerware
- BitTorrent-1.0
- BitTorrent-1.1
- BSL-1.0
- Borceux
- BSD-2-Clause
- BSD-2-Clause-FreeBSD
- BSD-2-Clause-NetBSD
"BSD-3-Clause",
"BSD-3-Clause-Clear",
"BSD-4-Clause",
"BSD-Protection",
"BSD-3-Clause-Attribution",
"BSD-4-Clause-UC",
"bzip2-1.0.5",
"bzip2-1.0.6",
"Caldera",
"CECILL-1.0",
"CECILL-1.1",
"CECILL-2.0",
"CECILL-B",
"CECILL-C",
"ClArtistic",
"MIT-CMU",
"CNRI-Jython",
"CNRI-Python",
"CNRI-Python-GPL-Compatible",
"CPOL-1.02",
"CDDL-1.0",
"CDDL-1.1",
"CPAL-1.0",
"CPL-1.0",
"CATOSL-1.1",
"Condor-1.1",
"CC-BY-1.0",
"CC-BY-2.0",
"CC-BY-2.5",
"CC-BY-3.0",
"CC-BY-4.0",
"CC-BY-ND-1.0",
"CC-BY-ND-2.0",
"CC-BY-ND-2.5",
"CC-BY-ND-3.0",
"CC-BY-ND-4.0",
"CC-BY-NC-1.0",
"CC-BY-NC-2.0",
"CC-BY-NC-2.5",
"CC-BY-NC-3.0",
"CC-BY-NC-4.0",
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"CC-BY-NC-ND-2.5",
"CC-BY-NC-ND-3.0",
"CC-BY-NC-ND-4.0",
"CC-BY-NC-SA-1.0",
"CC-BY-NC-SA-2.0"
"CC-BY-NC-SA-2.5",
"CC-BY-NC-SA-3.0",
"CC-BY-NC-SA-4.0",
"CC-BY-SA-1.0",
"CC-BY-SA-2.0",
"CC-BY-SA-2.5",
"CC-BY-SA-3.0",
"CC-BY-SA-4.0",
"CC0-1.0",
"Crossword",
"CUA-OPL-1.0",
"Cube",
"D-FSL-1.0",
"diffmark",
"WTFPL",
"DOC",
"Dotseqn",
"DSDP",
"dvipdfm",
"EPL-1.0",
"ECL-1.0",
"ECL-2.0",
"eGenix",
"EFL-1.0",
"EFL-2.0",
"MIT-advertising",
"MIT-enna",
"Entessa",
"ErlPL-1.1",
"EUDatagrid",
"EUPL-1.0",
"EUPL-1.1",
"Eurosymb",
"Fair",
"MIT-feh",
"Frameworx-1.0",
"FreeImage",
"FTL",
"FSFUL",
"FSFULLR",
"Giftware",
"GL2PS",
"Glulxe",
"AGPL-3.0",
"GFDL-1.1",
"GFDL-1.2",
"GFDL-1.3",
"GPL-1.0"
"GPL-2.0",
"GPL-3.0",
"LGPL-2.1",
"LGPL-3.0",
"LGPL-2.0",
"gnuplot",
"gSOAP-1.3b",
"HaskellReport",
"HPND",
"IBM-pibs",
"IPL-1.0",
"ICU",
"ImageMagick",
"iMatix",
"Imlib2",
"IJG",
"Intel-ACPI",
"Intel",
"IPA",
"ISC",
"JasPer-2.0",
"JSON",
"LPPL-1.3a",
"LPPL-1.0",
"LPPL-1.1",
"LPPL-1.2",
"LPPL-1.3c",
"Latex2e",
"BSD-3-Clause-LBNL",
"Leptonica",
"LGPLLLR",
"Libpng",
"libtiff",
"LPL-1.02",
"LPL-1.0",
"MakeIndex",
"MTLL",
"MS-PL",
"MS-RL",
"MirOS",
"MITNFA",
"MIT",
"Motosoto",
"MPL-1.0",
"MPL-1.1",
"MPL-2.0",
"MPL-2.0-no-copyleft-exception",
"mpich2",
"Multics",
"Mup",
"NASA-1.3",
"Naumen",
"NBPL-1.0",
"NetCDF",
"NGPL",
"NOSL",
"NPL-1.0",
"NPL-1.1",
"Newslettr",
"NLPL",
"Nokia",
"NPOSL-3.0",
"Noweb",
"NRL",
"NTP",
"Nunit",
"OCLC-2.0",
"ODbL-1.0",
"PDDL-1.0",
"OLDAP",
"OLDAP-2.2.2",
"OLDAP-1.1",
"OLDAP-1.2",
"OLDAP-1.3",
"OLDAP-1.4",
"OLDAP-2.0",
"OLDAP-2.0.1",
"OLDAP-2.1",
"OLDAP-2.2",
"OLDAP-2.2.1",
"OLDAP-2.3",
"OLDAP-2.4",
"OLDAP-2.5",
"OLDAP-2.6",
"OLDAP-2.7",
"OLDAP-2.8",
"OML",
"OPL-1.0",
"OSL-1.0",
"OSL-1.1",
"OSL-2.0",
"OSL-2.1",
"OSL-3.0",
"OpenSSL",
"PHP-3.0",
"PHP-3.01"
"Plexus",
"PostgreSQL",
"psfrag",
"psutils",
"Python-2.0",
"QPL-1.0",
"Qhull",
"Rdisc",
"RPSL-1.0",
"RPL-1.1",
"RPL-1.5",
"RHeCos-1.1",
"RSCPL",
"RSA-MD",
"Ruby",
"SAX-PD",
"Saxpath",
"SCEA",
"SWL",
"SGI-B-1.0",
"SGI-B-1.1",
"SGI-B-2.0",
"OFL-1.0",
"OFL-1.1",
"SimPL-2.0",
"Sleepycat",
"SNIA",
"Spencer-86",
"Spencer-94",
"Spencer-99",
"SMLNJ",
"SugarCRM-1.1.3",
"SISSL",
"SISSL-1.2",
"SPL-1.0",
"Watcom-1.0",
"TCL",
"Unlicense",
"TMate",
"TORQUE-1.1",
"TOSL",
"Unicode-TOU",
"UPL-1.0",
"NCSA",
"Vim",
"VOSTROM",
"VSL-1.0",
"W3C-19980720"


"license",
"licenses",
"id",
"identifier",
"identifiers",
"json",
"array",
"oss",
"browser",
"client-side"
],
"devDependencies": {
  "@shinnn/eslintrc": "^1.0.0",
  "each-async": "^1.1.1",
  "eslint": "^0.24.0",
  "got": "^3.3.0",
  "istanbul": "^0.3.17",
  "istanbul-coveralls": "^1.0.3",
  "require-bower-files": "^2.0.0",
  "rimraf": "^2.4.1",
  "stringify-object": "^2.2.0",
  "tape": "^4.0.0"
},
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"bugs": {
  "url": "https://github.com/shinnn/spdx-license-ids/issues"
},
"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
"_id": "spdx-license-ids@1.0.2",
"_shasum": "0674e9c9a230f980016b5b073a10aa165701677c",
"_from": "spdx-license-ids@1.0.2",
"_npmVersion": "2.12.1",
"_nodeVersion": "2.12.1",
"_npmUser": {
  "name": "shinnn",
  "email": "snnskwtnb@gmail.com"
},
"maintainers": [
  {
    "name": "shinnn",
    "email": "snnskwtnb@gmail.com"
  }
],
"dist": {
  "shasum": "0674e9c9a230f980016b5b073a10aa165701677c",
  "tarball": "http://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-1.0.2.tgz"
},
"directories": {"
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For more information, please refer to <http://unlicense.org/>

```
var correct = require('spdx-correct');
var assert = require('assert');

assert.equal(correct('mit'), 'MIT')

assert.equal(correct('Apache 2'), 'Apache-2.0')

assert(correct('No idea what license') === null)

var licenseIDs = require('spdx-license-ids');

function valid(string) {
    return licenseIDs.indexOf(string) > -1;
}

// Common transpositions of license identifier acronyms
var transpositions = [
    ['APGL', 'AGPL'],
    ['Gpl', 'GPL'],
    ['GLP', 'GPL'],
]
['APL', 'Apache'],
['ISD', 'ISC'],
['GLP', 'GPL'],
['IST', 'ISC'],
['Claude', 'Clause'],
['or later', '+'],
['International', ''],
['GNU', 'GPL'],
['GUN', 'GPL'],
['+', ''],
['GNU GPL', 'GPL'],
['GNU/GPL', 'GPL'],
['GNU GLP', 'GPL'],
['GNU General Public License', 'GPL'],
['Gnu public license', 'GPL'],
['GNU Public License', 'GPL'],
['GNU GENERAL PUBLIC LICENSE', 'GPL'],
['MIT', 'MIT'],
['Mozilla Public License', 'MPL'],
['WTH', 'WTF'],
['-License', '']
];

var TRANSPOSED = 0;
var CORRECT = 1;

// Simple corrections to nearly valid identifiers.
var transforms = [
  // e.g. 'mit'
  function(argument) {
    return argument.toUpperCase();
  },
  // e.g. 'MIT '
  function(argument) {
    return argument.trim();
  },
  // e.g. 'M.I.T.'
  function(argument) {
    return argument.replace(/\./g, '');
  },
  // e.g. 'Apache- 2.0'
  function(argument) {
    return argument.replace(/\s+/g, '');
  },
  // e.g. 'CC BY 4.0'
  function(argument) {
    return argument.replace(/\s+/g, '-');
  }
];
// e.g. 'LGPLv2.1'
function(argument) {
  return argument.replace('v', '-');
},
// e.g. 'Apache 2.0'
function(argument) {
  return argument.replace(/\s*(\d)/, ',-$1');
},
// e.g. 'GPL 2'
function(argument) {
  return argument.replace(/,\s*(\d)/, '-$1.0');
},
// e.g. 'Apache Version 2.0'
function(argument) {
  return argument.replace(/,\s*(\d)/, ',-$2');
},
// e.g. 'Apache Version 2'
function(argument) {
  return argument.replace(/,\s*(\d)/, ',-$2.0');
},
// e.g. 'ZLIB'
function(argument) {
  return argument[0].toUpperCase() + argument.slice(1);
},
// e.g. 'MPL/2.0'
function(argument) {
  return argument.replace(/(?=\d)/, '-');
},
// e.g. 'Apache 2'
function(argument) {
  return argument
    .replace(/\s*V\s*(\d)/, '-$1')
    .replace(/(\d)$/, '$1.0');
},
// e.g. 'GPL-2.0-'
function(argument) {
  return argument.slice(0, argument.length - 1);
},
// e.g. 'GPL2'
function(argument) {
  return argument.replace(/(\d)/, '-$1.0');
},
// e.g. 'BSD 3'
function(argument) {
  return argument.replace(/(\d)/, '-$2-Clause');
},
// e.g. 'BSD clause 3'
function(argument) {
return argument.replace(\(-\)clause\(-\)\(\d\))/, '-$3-Clause');
},
// e.g. 'BY-NC-4.0'
function(argument) {
  return 'CC-' + argument;
},
// e.g. 'BY-NC'
function(argument) {
  return 'CC-' + argument + '-4.0';
},
// e.g. 'Attribution-NonCommercial'
function(argument) {
  return argument.replace('Attribution', 'BY')
    .replace('NonCommercial', 'NC')
    .replace('NoDerivatives', 'ND')
    .replace(/\(\d\)/, '-$1')
    .replace(/ ?International/, "");
},
// e.g. 'Attribution-NonCommercial'
function(argument) {
  return 'CC-
    argument.replace('Attribution', 'BY')
    .replace('NonCommercial', 'NC')
    .replace('NoDerivatives', 'ND')
    .replace(/\(\d\)/, '-$1')
    .replace(/ ?International/, "") +
    '-4.0';
}
];

// If all else fails, guess that strings containing certain substrings
// meant to identify certain licenses.
var lastResorts = [
  ['UNLI', 'Unlicense'],
  ['WTF', 'WTFPL'],
  ['2 CLAUSE', 'BSD-2-Clause'],
  ['2-CLAUSE', 'BSD-2-Clause'],
  ['3 CLAUSE', 'BSD-3-Clause'],
  ['3-CLAUSE', 'BSD-3-Clause'],
  ['AFFERO', 'AGPL-3.0'],
  ['AGPL', 'AGPL-3.0'],
  ['APACHE', 'Apache-2.0'],
  ['ARTISTIC', 'Artistic-2.0'],
  ['Affero', 'AGPL-3.0'],
  ['BEER', 'Beerware'],
  ['BOOST', 'BSL-1.0'],
];
var SUBSTRING = 0;
var IDENTIFIER = 1;

var validTransformation = function(identifier) {
  for (var i = 0; i < transforms.length; i++) {
    var transformed = transforms[i](identifier);
    if (transformed !== identifier && valid(transformed)) {
      return transformed;
    }
  }
  return null;
};

var validLastResort = function(identifier) {
  var upperCased = identifier.toUpperCase();
  for (var i = 0; i < lastResorts.length; i++) {
    var lastResort = lastResorts[i];
    if (upperCased.indexOf(lastResort[SUBSTRING]) > -1) {
      return lastResort[IDENTIFIER];
    }
  }
  return null;
};

var anyCorrection = function(identifier, check) {
  for (var i = 0; i < transpositions.length; i++) {
    var transposition = transpositions[i];
    var transposed = transposition[TRANSPOSED];
    if (identifier.indexOf(transposed) > -1) {
      var corrected = identifier.replace(transposed, transposition[CORRECT]);
      var checked = check(corrected);
      if (checked !== null) {
        return checked;
      }
    }
  }
};
module.exports = function(identifier) {
  identifier = identifier.replace(/\+$/); 
  if (valid(identifier)) {
    return identifier;
  }
  var transformed = validTransformation(identifier);
  if (transformed !== null) {
    return transformed;
  }
  transformed = anyCorrection(identifier, function(argument) {
    if (valid(argument)) {
      return argument;
    }
    return validTransformation(argument);
  });
  if (transformed !== null) {
    return transformed;
  }
  transformed = validLastResort(identifier);
  if (transformed !== null) {
    return transformed;
  }
  transformed = anyCorrection(identifier, validLastResort);
  if (transformed !== null) {
    return transformed;
  }
  return null;
};

{  
  "name": "spdx-correct",
  "description": "correct invalid SPDX identifiers",
  "version": "1.0.1",
  "author": {
    "name": "Kyle E. Mitchell",
    "email": "kyle@kemitchell.com",
    "url": "https://kemitchell.com"
  },
  "dependencies": {
    "spdx-license-ids": "^1.0.2"
  },
  "devDependencies": {
    "defence-cli": "^1.0.1",
  }
}
"replace-require-self": "^1.0.0",
"spdx-expression-parse": "^1.0.0",
"tape": "~4.0.0"
},
"keywords": [
  "SPDX",
  "law",
  "legal",
  "license",
  "metadata"
],
"license": "Apache-2.0",
"repository": {
  "type": "git",
  "url": "git+https://github.com/kemitchell/spdx-correct.js.git"
},
"scripts": {
  "test": "defence README.md | replace-require-self | node && tape *.test.js"
},
"gitHead": "f3581dea1529d975851ceab7f86e646d8220608a",
"bugs": {
  "url": "https://github.com/kemitchell/spdx-correct.js/issues"
},
"homepage": "https://github.com/kemitchell/spdx-correct.js#readme",
"_id": "spdx-correct@1.0.1",
"_shasum": "ac075f5f2f6a06c0bfdd1ce847eb3d123dd8221ea",
"_from": "spdx-correct@>=1.0.0 <1.1.0",
"_npmVersion": "2.13.5",
"_nodeVersion": "0.12.7",
"_npmUser": {
  "name": "kemitchell",
  "email": "kyle@kemitchell.com"
},
"dist": {
  "shasum": "ac075f5f2f6a06c0bfdd1ce847eb3d123dd8221ea",
  "tarball": "http://registry.npmjs.org/spdx-correct/-/spdx-correct-1.0.1.tgz"
},
"maintainers": [ {
  "name": "kemitchell",
  "email": "kyle@kemitchell.com"
}, {
  "name": "othiym23",
  "email": "ogd@aoaioxxysz.net"
} ],
"directories": { }.
```javascript
var parse = require('./
var assert = require('assert')

var firstAST = {
  left: { license: 'LGPL-2.1' },
  conjunction: 'or',
  right: {
    left: { license: 'BSD-3-Clause' },
    conjunction: 'and',
    right: { license: 'MIT' } } }

assert.deepEqual(parse('(LGPL-2.1 OR BSD-3-Clause AND MIT)'), firstAST)

var secondAST = {
  left: { license: 'MIT' },
  conjunction: 'and',
  right: {
    left: {
      license: 'LGPL-2.1',
      plus: true },
    conjunction: 'and',
    right: { license: 'BSD-3-Clause' } } }

assert.deepEqual(parse('(MIT AND (LGPL-2.1+ AND BSD-3-Clause))'), secondAST)
```

[The Software Package Data Exchange (SPDX) specification](http://spdx.org) is the work of the [Linux Foundation](http://www.linuxfoundation.org) and its contributors, and is licensed under the terms of [the Creative Commons Attribution License 3.0 Unported (SPDX: "CC-BY-3.0")](http://spdx.org/licenses/CC-BY-3.0). "SPDX" is a United States federally registered trademark of the Linux Foundation.

/* parser generated by jison 0.4.15 */

Returns a Parser object of the following structure:

Parser: {
  yy: {
  } }
Parser.prototype: {
    yy: {},
    trace: function(),
    symbols_: {associative list: name ==> number},
    terminals_: {associative list: number ==> name},
    productions_: [...],
    performAction: function anonymous(yytext, yyleng, yylineno, yy, yystate, $$, _$),
    table: [...],
    defaultActions: {...},
    parseError: function(str, hash),
    parse: function(input),
}

lexer: {
    EOF: 1,
    parseError: function(str, hash),
    setInput: function(input),
    input: function(),
    unput: function(str),
    more: function(),
    less: function(n),
    pastInput: function(),
    upcomingInput: function(),
    showPosition: function(),
    test_match: function(regex_match_array, rule_index),
    next: function(),
    lex: function(),
    begin: function(condition),
    popState: function(),
    _currentRules: function(),
    topState: function(),
    pushState: function(condition),

    options: {
        ranges: boolean (optional: true ==> token location info will include a .range[] member)
        flex: boolean (optional: true ==> flex-like lexing behaviour where the rules are tested exhaustively to
        find the longest match)
        backtrack Lexer: boolean (optional: true ==> lexer regexes are tested in order and for each matching regex
        the action code is invoked; the lexer terminates the scan when a token is returned by the action code)
    },

    performAction: function(yy, yy_, $avoiding_name_collisions, YY_START),
    rules: [...],
    conditions: {associative list: name ==> set},
}

}

token location info (@$. _$, etc.): {

var spdxparse = (function()
  var o=function(k,v,o,l){for(o=o||{},l=k.length;l--;o[k[l]]=v);return o},
  $V0=[1,5], $V1=[1,6], $V2=[1,7], $V3=[1,4], $V4=[1,9], $V5=[1,10], $V6=[5,14,15,17], $V7=[5,12,14,15,17];
  var parser = { trace: function trace() { },
    yy: {},
    symbols_: {
      "error": 2, "start": 3, "expression": 4, "EOS": 5, "simpleExpression": 6, "LICENSE": 7, "PLUS": 8, "LICENSEREF": 9, "DOCUMENTREF": 10, "COLON": 11, "WITH": 12, "EXCEPTION": 13, "AND": 14, "OR": 15, "OPEN": 16, "CLOSE": 17, "$accept": 0, "$end": 1},
    terminals_: {
    productions_: [0, [3, 2], [6, 1], [6, 2], [6, 1], [6, 3], [4, 1], [4, 3], [4, 3], [4, 3], [4, 3]],
    performAction: function anonymous(yytext, yyleng, yylineno, yy, yystate /* action[1] */, $$ /* vstack */, _$ /* lstack */) {
      /* this == yyval */
      var $0 = $$length - 1;
      switch (yystate) {
        case 1:
          return this.$ = $$[$0-1];
        break;
        case 2: case 4: case 5:
          this.$ = { license: yytext };
        break;
        case 3:
          this.$ = { license: $$[$0-1], plus: true };
        break;
        case 6:
        break;
      }
    }
  },
  yy: {},
  symbols_: {
    "error": 2, "start": 3, "expression": 4, "EOS": 5, "simpleExpression": 6, "LICENSE": 7, "PLUS": 8, "LICENSEREF": 9, "DOCUMENTREF": 10, "COLON": 11, "WITH": 12, "EXCEPTION": 13, "AND": 14, "OR": 15, "OPEN": 16, "CLOSE": 17, "$accept": 0, "$end": 1},
  terminals_: {
  productions_: [0, [3, 2], [6, 1], [6, 2], [6, 1], [6, 3], [4, 1], [4, 3], [4, 3], [4, 3], [4, 3], [4, 3]],
  performAction: function anonymous(yytext, yyleng, yylineno, yy, yystate /* action[1] */ $, $$ /* vstack */ _, _$ /* lstack */) {
    /* this == yyval */
    var $0 = $$length - 1;
    switch (yystate) {
      case 1:
        return this.$ = $$[$0-1];
      break;
      case 2: case 4: case 5:
        this.$ = { license: yytext };
      break;
      case 3:
        this.$ = { license: $$[$0-1], plus: true };
      break;
      case 6:
      break;
    }
  }));
this.$ = $$[0];
break;
case 7:
this.$ = { exception: $$[0] };  
this.$.license = $$[0-2].license;
if ($$[0-2].hasOwnProperty('plus')) {
  this.$.plus = $$[0-2].plus;
}
break;
case 8:
this.$ = { conjunction: 'and', left: $$[0-2], right: $$[0] };  
break;
case 9:
this.$ = { conjunction: 'or', left: $$[0-2], right: $$[0] };  
break;
case 10:
this.$ = $$[0-1]
break;
}
},
table:
[ [3:1,4:2,6:3,7:$V0,9:$V1,10:$V2,16:$V3], [1:3], [5:18,14:$V4,15:$V5], o($V6,[2,6],[12:[1,11]]), [4:12,6:3,7: $V0,9:$V1,10:$V2,16:$V3], o($V7,[2,2],[8:[1,13]]), o($V7,[2,4]), [11:[1,14]], [1:[2,1]], [4:15,6:3,7:$V0,9:$V1,10: $V2,16:$V3], [4:16,6:3,7:$V0,9:$V1,10:$V2,16:$V3], [13:[1,17]], [14:$V4,15:$V5,17:[1,18]], o($V7,[2,3]), [9:[1,1 9]], o($V6,[2,8]), o([5,15,17],[2,9], [14:$V4]), o($V6,[2,7]), o($V6,[2,10]), o($V7,[2,5])],
defaultActions: [8:[2,1]],
parseError: function parseError(str, hash) {
  if (hash.recoverable) {
    this.trace(str);
  } else {
    throw new Error(str);
  }
},
parse: function parse(input) {
  var self = this, stack = [0], vstack = [null], lstack = [], table = this.table, yytext = ", yyleng = 0, 
yylineno = 0, recovering = 0, TERROR = 2, EOF = 1;
  var args = lstack.slice.call(arguments, 1);
  var lexer = Object.create(this.lexer);
  var sharedState = { yy: {} };
  for (var k in this.yy) {
    if (Object.prototype.hasOwnProperty.call(this.yy, k)) {
      sharedState.yy[k] = this.yy[k];
    }
  }
  lexer.setInput(input, sharedState.yy);
  sharedState.yy.lexer = lexer;
  sharedState.yy.parser = this;
  if (typeof lexer.yylloc == 'undefined') {
lexer.yylloc = { };  
}  
var yyloc = lexer.yylloc;  
lstack.push(yyloc);  
var ranges = lexer.options && lexer.options.ranges;  
if (typeof sharedState.yy.parseError === 'function') {  
  this.parseError = sharedState.yy.parseError;  
} else {  
  this.parseError = Object.getPrototypeOf(this).parseError;  
}  
function popStack(n) {  
  stack.length = stack.length - 2 * n;  
vstack.length = vstack.length - n;  
lstack.length = lstack.length - n;  
}  
_token_stack:  
function lex() {  
  var token;  
  token = lexer.lex() || EOF;  
  if (typeof token !== 'number') {  
    token = self.symbols_[token] || token;  
  }  
  return token;  
}  
var symbol, preErrorSymbol, state, action, a, r, yyval = { }, p, len, newState, expected;  
while (true) {  
  state = stack[stack.length - 1];  
  if (this.defaultActions[state]) {  
    action = this.defaultActions[state];  
  } else {  
    if (symbol === null || typeof symbol == 'undefined') {  
      symbol = lex();  
    }  
    action = table[state] && table[state][symbol];  
  }  
  if (typeof action === 'undefined' || !action.length || !action[0]) {  
    var errStr = '';  
    expected = [];  
    for (p in table[state]) {  
      if (this.terminals_[p] & p > TERROR) {  
        expected.push('"' + this.terminals_[p] + '\"');  
      }  
    }  
    if (lexer.showPosition) {  
      errStr = 'Parse error on line ' + (yylineno + 1) + ':un' + lexer.showPosition() + '\u0000Expected ' +  
        expected.join(', ') + ', got ' + (this.terminals_[symbol] || symbol) + '\"';  
    } else {  
      errStr = 'Parse error on line ' + (yylineno + 1) + ': Unexpected ' + (symbol == EOF ? 'end of input' : '\"' +  

(this.terminals_[symbol] || symbol) + ");
  }
  this.parseError(errStr, {
    text: lexer.match,
    token: this.terminals_[symbol] || symbol,
    line: lexer.yylineno,
    loc: yyloc,
    expected: expected
  });
}
if (action[0] instanceof Array && action.length > 1) {
  throw new Error('Parse Error: multiple actions possible at state: ` + state + `, token: ` + symbol);
}
switch (action[0]) {
  case 1:
    stack.push(symbol);
    vstack.push(lexer.yytext);
    lstack.push(lexer.yylloc);
    stack.push(action[1]);
    symbol = null;
    if (!preErrorSymbol) {
      yyleng = lexer.yyleng;
      yytext = lexer.yytext;
      yylineno = lexer.yylineno;
      yyloc = lexer.yylloc;
      if (recovering > 0) {
        recovering--;
      }
    } else {
      symbol = preErrorSymbol;
      preErrorSymbol = null;
    }
    break;
  case 2:
    len = this.productions_[action[1]][1];
    yyval.$ = vstack[vstack.length - len];
    yyval._$ = {
      first_line: lstack[lstack.length - (len || 1)].first_line,
      last_line: lstack[lstack.length - 1].last_line,
      first_column: lstack[lstack.length - (len || 1)].first_column,
      last_column: lstack[lstack.length - 1].last_column
    };
    if (ranges) {
      yyval._$.range = [
        lstack[lstack.length - (len || 1)].range[0],
        lstack[lstack.length - 1].range[1]
      ];
    }
  }
}
r = this.performAction.apply(yyval, [
    yytext,
    yyleng,
    yynlineo,
    sharedState.yy,
    action[1],
    vstack,
    lstack
].concat(args));
if (typeof r !== 'undefined') {
    return r;
}
if (len) {
    stack = stack.slice(0, -1 * len * 2);
    vstack = vstack.slice(0, -1 * len);
    lstack = lstack.slice(0, -1 * len);
}
stack.push(this.productions_[action[1]][0]);
vstack.push(yyval.$);
lstack.push(yyval._$);
newState = table[stack[stack.length - 2]][stack[stack.length - 1]];
stack.push(newState);
break;
case 3:
    return true;
}
}
/* generated by jison-lex 0.3.4 */
var lexer = (function(){
    var lexer = (
EOF:1,
    parseError:function parseError(str, hash) {
        if (this.yy.parser) {
            this.yy.parser.parseError(str, hash);
        } else {
            throw new Error(str);
        }
},
    // resets the lexer, sets new input
    setInput:function (input, yy) {
        this.yy = yy || this.yy || {};
        this._input = input;
        this._more = this._backtrack = this.done = false;
    }
})();
// consumes and returns one char from the input
input:function () {
    var ch = this._input[0];
    this.yytext += ch;
    this.yyleng++;
    this.offset++;
    this.match += ch;
    this.matched += ch;
    var lines = ch.match(/(?:\r\n?|\n).*/g);
    if (lines) {
        this.yylineno++;
        this.yylloc.last_line++;
    } else {
        this.yylloc.last_column++;
    }
    if (this.options.ranges) {
        this.yylloc.range[1]++;
    }

    this._input = this._input.slice(1);
    return ch;
},

// unshifts one char (or a string) into the input
unput:function (ch) {
    var len = ch.length;
    var lines = ch.split(/(?:\r\n?|\n)/g);

    this._input = ch + this._input;
    this.yytext = this.yytext.substr(0, this.yytext.length - len);
    //this.yyleng -= len;
    this.offset -= len;
}
var oldLines = this.match.split(/(?<=\r?\n)|\n/g);
this.match = this.match.substr(0, this.match.length - 1);
this.matched = this.matched.substr(0, this.matched.length - 1);

if (lines.length - 1) {
    this.yylineno -= lines.length - 1;
}
var r = this.yylloc.range;

this.yylloc = {
    first_line: this.yylloc.first_line,
    last_line: this.yylineno + 1,
    first_column: this.yylloc.first_column,
    last_column: lines ?
        (lines.length === oldLines.length ? this.yylloc.first_column : 0) + oldLines[oldLines.length - lines.length].length - lines[0].length :
        this.yylloc.first_column - len
};

if (this.options.ranges) {
    this.yylloc.range = [r[0], r[0] + this.yyleng - len];
}
this.yyleng = this.yytext.length;
return this;

// When called from action, caches matched text and appends it on next action
more:function () {
    this._more = true;
    return this;
},

// When called from action, signals the lexer that this rule fails to match the input, so the next matching rule (regex) should be tested instead.
reject:function () {
    if (this.options.backtrack Lexer) {
        this._backtrack = true;
    } else {
        return this.parseError('Lexical error on line `' + (this.yylineno + 1) + `' . You can only invoke reject() in the lexer when the lexer is of the backtracking persuasion (options.backtrack Lexer = true).
        text: "",
        token: null,
        line: this.yylineno
    });
}
return this;
}
// retain first n characters of the match
less:function (n) {
    this.unput(this.match.slice(n));
},

// displays already matched input, i.e. for error messages
pastInput:function () {
    var past = this.matched.substr(0, this.matched.length - this.match.length);
    return (past.length > 20 ? '...' : '') + past.substr(-20).replace(/\n/g, "");
},

// displays upcoming input, i.e. for error messages
upcomingInput:function () {
    var next = this.match;
    if (next.length < 20) {
        next += this._input.substr(0, 20-next.length);
    }
    return (next.substr(0,20) + (next.length > 20 ? '...' : '')).replace(/\n/g, "");
},

// displays the character position where the lexing error occurred, i.e. for error messages
showPosition:function () {
    var pre = this.pastInput();
    var c = new Array(pre.length + 1).join("-");
    return pre + this.upcomingInput() + "\n" + c + "^";
},

// test the lexed token: return FALSE when not a match, otherwise return token
test_match:function (match, indexed_rule) {
    var token,
        lines,
        backup;

    if (this.options.backtrack_lexer) {
        // save context
        backup = {
            yylineno: this.yylineno,
            yylloc: {
                first_line: this.yylloc.first_line,
                last_line: this.last_line,
                first_column: this.yylloc.first_column,
                last_column: this.yylloc.last_column
            },
            yytext: this.yytext,
            match: this.match,
            matches: this.matches,
            matched: this.matched,
        }
    }
    return (match.matched || false);
}
yylen: this.yylen,
offset: this.offset,
_more: this._more,
_input: this._input,
yy: this.yy,
conditionStack: this.conditionStack.slice(0),
done: this.done
);
if (this.options.ranges) {
    backup.yylloc.range = this.yylloc.range.slice(0);
}
}

lines = match[0].match(/(?:\r\n?|\n).*/g);
if (lines) {
    this.yylineno += lines.length;
}
this.yylloc = {
    first_line: this.yylloc.last_line,
    last_line: this.yylineno + 1,
    first_column: this.yylloc.last_column,
    last_column: lines ?
        lines[lines.length - 1].length - lines[lines.length - 1].match(/\r?\n/)[0].length :
        this.yylloc.last_column + match[0].length
};
this.yytext += match[0];
this.match += match[0];
this.matches = match;
this.yylen = this.yytext.length;
if (this.options.ranges) {
    this.yylloc.range = [this.offset, this.offset += this.yylen];
}
this._more = false;
this._backtrack = false;
this._input = this._input.slice(match[0].length);
this.matched += match[0];
token = this.performAction.call(this, this.yy, this, indexed_rule, this.conditionStack[this.conditionStack.length - 1]);
if (this.done && this._input) {
    this.done = false;
}
if (token) {
    return token;
} else if (this._backtrack) {
    // recover context
    for (var k in backup) {
        this[k] = backup[k];
    }
return false; // rule action called reject() implying the next rule should be tested instead.
}
return false;
},

// return next match in input
next:function () {
    if (this.done) {
        return this.EOF;
    }
    if (!this._input) {
        this.done = true;
    }

    var token,
        match,
        tempMatch,
        index;
    if (!this._more) {
        this.yytext = '';    
        this.match = '';    
    }
    var rules = this._currentRules();
    for (var i = 0; i < rules.length; i++) {
        tempMatch = this._input.match(this.rules[rules[i]]);      
        if (tempMatch && (!match || tempMatch[0].length > match[0].length)) {
            match = tempMatch;
            index = i;
        if (this.options.backtrack_lexer) {
            token = this.test_match(tempMatch, rules[index]);
            if (token !== false) {
                return token;
            } else if (this._backtrack) {
                match = false;
                continue; // rule action called reject() implying a rule MISmatch.
            } else {
                // else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)
                return false;
            }
        } else if (!this.options.flex) {
            break;
        } else if (!this.options.flex) {
            break;
        }
    }
    if (match) {
        token = this.test_match(match, rules[index]);
        if (token !== false) {
            return token;
// else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)
return false;
}
if (this._input === "") {
    return this.EOF;
} else {
    return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. Unrecognized text.\n' +
    this.showPosition(), {
    text: "",
    token: null,
    line: this.yylineno
  });
}

// return next match that has a token
lex:function lex() {
    var r = this.next();
    if (r) {
        return r;
    } else {
        return this.lex();
    }
}

// activates a new lexer condition state (pushes the new lexer condition state onto the condition stack)
begin:function begin(condition) {
    this.conditionStack.push(condition);
};

// pop the previously active lexer condition state off the condition stack
popState:function popState() {
    var n = this.conditionStack.length - 1;
    if (n > 0) {
        return this.conditionStack.pop();
    } else {
        return this.conditionStack[0];
    }
};

// produce the lexer rule set which is active for the currently active lexer condition state
_currentRules:function _currentRules() {
    if (this.conditionStack.length && this.conditionStack[this.conditionStack.length - 1]) {
        return this.conditions[this.conditionStack[this.conditionStack.length - 1]].rules;
    } else {
        return this.conditions["INITIAL"].rules;
    }
function topState(n) {
    n = this.conditionStack.length - 1 - Math.abs(n || 0);
    if (n >= 0) {
        return this.conditionStack[n];
    } else {
        return "INITIAL";
    }
},

// alias for begin(condition)
function pushState(condition) {
    this.begin(condition);
},

// return the number of states currently on the stack
function stateStackSize() {
    return this.conditionStack.length;
},

options: {},

performAction: function(yy,yy_,$avoiding_name_collisions,YY_START) { 
    var YYSTATE=YY_START;
    switch($avoiding_name_collisions) {
        case 0:return 5;
        break;
        case 1:/* skip whitespace */
        break;
        case 2:return 8;
        break;
        case 3:return 16;
        break;
        case 4:return 17;
        break;
        case 5:return 11;
        break;
        case 6:return 10;
        break;
        case 7:return 9;
        break;
        case 8:return 14;
        break;
        case 9:return 15;
        break;
        case 10:return 12;
        break;
case 11: return 7
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case 12: return 7
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rules: [/(?:$)/,/(?:\s+)/,/(?:\+)/,/(?:\()/,/(?:\))/,/(?:::)/,/(?:DocumentRef-(?:[0-9A-Za-z-+.]+))/,/(?:LicenseRef-(?:0-9A-Za-z-+.]+)/,/(?:\&)/,/(?:\|)/,/(?:\?)/,/(?:\!/)/,/(?:\*\*)/,/(?:\?)/,/(?:?:\Glide)/,/(?:?:\Abstyles)/,/(?:?:\AFL-1.1)/,/(?:?:\AFL-1.2)/,/(?:?:\AFL-2.0)/,/(?:?:\AFL-2.1)/,/(?:?:\AFL-3.0)/,/(?:?:\AMPAS)/,/(?:?:\AFL-1.0)/,/(?:?:\Adobe-Glyph)/,/(?:?:\AFL-1.0)/,/(?:?:\Afmparse)/,/(?:?:\Aladdin)/,/(?:?:\ADSPL)/,/(?:?:\ANTLR-PD)/,/(?:?:\Apache-1.0)/,/(?:?:\Apache-2.0)/,/(?:?:\AMDPLA)/,/(?:?:\APACHE)/,/(?:?:\APSLL-1.0)/,/(?:?:\APSLL-1.1)/,/(?:?:\APSLL-1.2)/,/(?:?:\APSLL-2.0)/,/(?:?:\APSLL-2.1)/,/(?:?:\APSLL-3.0)/,/(?:?:\Adelaide)/,/(?:?:\Artistic-1.0)/,/(?:?:\Artistic-1.0-Perl)/,/(?:?:\Artistic-1.0-cl8)/,/(?:?:\Artistic-2.0)/,/(?:?:\AAL)/,/(?:?:\Bahyph)/,/(?:?:\Barr)/,/(?:?:\Beerware)/,/(?:?:\BitTorrent-1.0)/,/(?:?:\BitTorrent-1.1)/,/(?:?:\BSD-1.0)/,/(?:?:\BSD-2-Clause)/,/(?:?:\BSD-2-Clause-FreeBSD)/,/(?:?:\BSD-2-Clause-NetBSD)/,/(?:?:\BSD-3-Clause)/,/(?:?:\BSD-3-Clause-Clear)/,/(?:?:\BSD-4-Clause)/,/(?:?:\BSD-Protection)/,/(?:?:\BSD-3-Clause-Attribution)/,/(?:?:\bzip2-1.0.5)/,/(?:?:\bzip2-1.0.6)/,/(?:?:\Caldera)/,/(?:?:\CECILL-1.0)/,/(?:?:\CECILL-1.1)/,/(?:?:\CECILL-2.0)/,/(?:?:\CECILL-B)/,/(?:?:\CECILL-C)/,/(?:?:\ClArtistic)/,/(?:?:\MIT-CMUC)/,/(?:?:\CNRI-Python)/,/(?:?:\CNRI-Python-GPL-Compatible)/,/(?:?:\CPOL-1.0)/,/(?:?:\CDDL-1.0)/,/(?:?:\CDDL-1.1)/,/(?:?:\CPAL-1.0)/,/(?:?:\CPL-1.0)/,/(?:?:\CATOSL-1.1)/,/(?:?:\Condor-1.1)/,/(?:?:\CC-BY-1.0)/,/(?:?:\CC-BY-2.0)/,/(?:?:\CC-BY-2.5)/,/(?:?:\CC-BY-3.0)/,/(?:?:\CC-BY-4.0)/,/(?:?:\CC-BY-ND-1.0)/,/(?:?:\CC-BY-ND-2.0)/,/(?:?:\CC-BY-ND-2.5)/,/(?:?:\CC-BY-ND-3.0)/,/(?:?:\CC-BY-ND-4.0)/,/(?:?:\CC-BY-NC-1.0)/,/(?:?:\CC-BY-NC-2.0)/,/(?:?:\CC-BY-NC-2.5)/,/(?:?:\CC-BY-NC-3.0)/,/(?:?:\CC-BY-NC-4.0)/,/(?:?:\CC-BY-NC-ND-1.0)/,/(?:?:\CC-BY-NC-ND-2.0)/,/(?:?:\CC-BY-NC-ND-2.5)/,/(?:?:\CC-BY-NC-ND-3.0)/,/(?:?:\CC-BY-NC-ND-4.0)/,/(?:?:\CC-BY-NC-SA-1.0)/,/(?:?:\CC-BY-NC-SA-2.0)/,/(?:?:\CC-BY-NC-SA-2.5)/,/(?:?:\CC-BY-NC-SA-3.0)/,/(?:?:\CC-BY-NC-SA-4.0)/,/(?:?:\CC-BY-SA-1.0)/,/(?:?:\CC-BY-SA-2.0)/,/(?:?:\CC-BY-SA-2.5)/,/(?:?:\CC-BY-SA-3.0)/,/(?:?:\CC-BY-SA-4.0)/,/(?:?:\CC-BY-SA-5.0)/,/(?:?:\CC-BY-SA-6.0)/,/(?:?:\Crossword)/,/(?:?:\CUA-OPL-1.0)/,/(?:?:\Cube)/,/(?:?:\D-FLSP-1.0)/,/(?:?:\diffmark)/,/(?:?:\DOC)/,/(?:?:\Docseq)/,/(?:?:\DSP)/,/(?:?:\dvipdfm)/,/(?:?:\EPL-1.0)/,/(?:?:\ECL-1.0)/,/(?:?:\ECL-2.0)/,/(?:?:\EPL-1.0)/,/(?:?:\MIT-advertising)/,/(?:?:\MIT-enna)/,/(?:?:\Entessa)/,/(?:?:\ErlPL-1.1)/,/(?:?:\EUDatagrid)/,/(?:?:\EUL-1.0)/,/(?:?:\EUL-
if (typeof require !== 'undefined' && typeof exports !== 'undefined') {
    exports.parser = spdxparse;
    exports.Parser = spdxparse.Parser;
    exports.parse = function () { return spdxparse.parse.apply(spdxparse, arguments); }; 
    exports.main = function commonjsMain(args) {
        if (!args[1]) {
            console.log('Usage: ' + args[0] + ' FILE');
            process.exit(1);
        }
        var source = require('fs').readFileSync(require('path').normalize(args[1]), "utf8");
        return exports.parser.parse(source);
    };
    if (typeof module !== 'undefined' && require.main === module) {
        exports.main(process.argv.slice(1));
    }
}
["389-exception",
"Autoconf-exception-2.0 ",
"Autoconf-exception-3.0 ",
"Bison-exception-2.2",
"CLISP-exception-2.0",
"Classpath-exception-2.0",
"FLTK-exception ",
"FLTK-exception-2.0 ",
"Font-exception-2.0 ",
"GCC-exception-2.0",
"GCC-exception-3.1",
"LZMA-exception ",
"Libtool-exception",
"Nokia-Qt-exception-1.1 ",
"Qwt-exception-1.0",
"WxWindows-exception-3.1",
"eCos-exception-2.0 ",
]
"freertos-exception-2.0",
"gnu-javamail-exception",
"i2p-gpl-java-exception",
"mif-exception",
"u-boot-exception-2.0"
]
The package exports an array of strings.
{
"name": "spdx-exceptions",
"description": "list of SPDX standard license exceptions",
"version": "1.0.3",
"author": {
"name": "The Linux Foundation"
},
"contributors": [
{
"name": "Kyle E. Mitchell",
"email": "kyle@kemitchell.com",
"url": "https://kemitchell.com/"
}
],
"license": "CC-BY-3.0",
"repository": {
"type": "git",
"url": "git+https://github.com/kemitchell/spdx-exceptions.json.git"
},
"gitHead": "fdd2c68ac29d4cd891c31e9b60523177eb9b338e",
"bugs": {
"url": "https://github.com/kemitchell/spdx-exceptions.json/issues"
},
"homepage": "https://github.com/kemitchell/spdx-exceptions.json#readme",
"_id": "spdx-exceptions@1.0.3",
"scripts": {},
"_shasum": "39ec5ed2cebdf08d180555d7e99c3aff9b4764a",
"_from": "spdx-exceptions@>=1.0.0 <2.0.0",
"_npmVersion": "3.3.4",
"_nodeVersion": "4.1.1",
"_npmUser": {
"name": "kemitchell",
"email": "kyle@kemitchell.com"
},
"dist": {
"shasum": "39ec5ed2cebdf08d180555d7e99c3aff9b4764a",
"tarball": "http://registry.npmjs.org/spdx-exceptions/-/spdx-exceptions-1.0.3.tgz"
},
"maintainers": [
{
"name": "kemitchell"
"email": "kyle@kemitchell.com"
},
"directories": {},
"_resolved": "https://registry.npmjs.org/spdx-exceptions/-/spdx-exceptions-1.0.3.tgz",
"readme": "ERROR: No README data found!"
}

var parser = require('./parser.generated.js').parser

module.exports = function(argument) {
    return parser.parse(argument) }

{
"name": "spdx-expression-parse",
"description": "parse SPDX license expressions",
"version": "1.0.0",
"author": {
"name": "Kyle E. Mitchell",
"email": "kyle@kemitchell.com",
"url": "http://kemitchell.com"
},
"dependencies": {
"spdx-exceptions": "^1.0.0",
"spdx-license-ids": "^1.0.0"
},
"devDependencies": {
"defence-cli": "^1.0.1",
"jison": "^0.4.15"
},
"keywords": [
"SPDX",
"law",
"legal",
"license",
"metadata",
"package",
"package.json",
"standards"
],
"license": "(MIT AND CC-BY-3.0)",
"repository": {
"type": "git",
"url": "git+https://github.com/kemitchell/spdx-expression-parse.js.git"
},
"scripts": {
"generate": "node generate-parser.js > parser.generated.js",
"prepublish": "npm run generate",
"pretest": "npm run generate",
"test": "defence -i javascript README.md | node"
"gitHead": "213bc03808f709a4ceaadb8466740a8c96c1e896",
"bugs": {
    "url": "https://github.com/kemitchell/spdx-expression-parse.js/issues"
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"homepage": "https://github.com/kemitchell/spdx-expression-parse.js#readme",
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"_from": "spdx-expression-parse@>=1.0.0 <1.1.0",
"_npmVersion": "2.13.3",
"_nodeVersion": "0.12.7",
"_npmUser": {
    "name": "kemitchell",
    "email": "kyle@kemitchell.com"
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"dist": {
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    "tarball": "http://registry.npmjs.org/spdx-expression-parse/-/spdx-expression-parse-1.0.0.tgz"
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        "name": "kemitchell",
        "email": "kyle@kemitchell.com"
    }
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"directories": {},
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"readme": "ERROR: No README data found!"
}

SPDX:MIT

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var parse = require('spdx-expression-parse');
var correct = require('spdx-correct');

var genericWarning = ( 'license should be ' + 'a valid SPDX license expression (without "LicenseRef"), ' + '"UNLICENSED", or ' + '"SEE LICENSE IN <filename>"');

var fileReferenceRE = /^SEE LICENCE IN (.+)$/;

function startsWith(prefix, string) {
    return string.slice(0, prefix.length) === prefix;
}

function usesLicenseRef(ast) {
    if (ast.hasOwnProperty('license')) {
        var license = ast.license;
        return (startsWith('LicenseRef', license) ||
                startsWith('DocumentRef', license)
        );
    } else {
        return (usesLicenseRef(ast.left) ||
                usesLicenseRef(ast.right)
        );
    }
}

module.exports = function(argument) {
    var ast;

    try {
        ast = parse(argument);
    } catch (e) {
        var match
        if (argument === 'UNLICENSED' ||
            argument === 'UNLICENCED')
            return {

validForOld Packages: true,
validForNew Packages: true,
unlicensed: true
};
} else if (match = fileReferenceRE.exec(argument)) {
    return {
        validForOld Packages: true,
        validForNew Packages: true,
inFile: match[1]
    };
} else {
    var result = {
        validForOld Packages: false,
        validForNew Packages: false,
        warnings: [genericWarning]
    };
    var corrected = correct(argument);
    if (corrected) {
        result.warnings.push(
            "license is similar to the valid expression " + corrected + ""
        );
    }
    return result;
}
}

if (usesLicenseRef(ast)) {
    return {
        validForNew Packages: false,
        validForOld Packages: false,
        spdx: true,
        warnings: [genericWarning]
    };
} else {
    return {
        validForNew Packages: true,
        validForOld Packages: true,
        spdx: true
    };
}
};

{
    "name": "validate-npm-package-license",
    "description": "Give me a string and I'll tell you if it's a valid npm package license string",
    "version": "3.0.1",
    "author": {
        "name": "Kyle E. Mitchell",
        "email": "kyle@kemitchell.com",

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Version 2.0, January 2004

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oc-client.js
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* jQuery
* 1.js
* Jade runtime
* Handlebars runtime
* jQuery-ajaxTransport-XDomainRequest

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/* https://github.com/malko/l.js */
/* l.js v0.1.1 */
/*
* script for js/css parallel loading with dependencies management
* @author Jonathan Gotti <jgotti at jgotti dot net>
* @licence dual licence mit / gpl
* @since 2012-04-12
* @todo add prefetching using text/cache for js files
* @changelog
* - 2016-08-22 - remove global eval and fix issue #13
* - 2014-06-26 - bugfix in css loaded check when hashbang is used
* - 2014-05-25 - fallback support rewrite + null id bug correction + minification work
* - 2014-05-21 - add cdn fallback support with hashbang url
* - 2014-05-22 - add support for relative paths for stylesheets in checkLoaded
* - 2014-05-21 - add support for relative paths for scripts in checkLoaded
* - 2013-01-25 - add parallel loading inside single load call
* - 2012-06-29 - some minifier optimisations
* - 2012-04-20 - now sharp part of url will be used as tag id
* - add options for checking already loaded scripts at load time
* - 2012-04-19 - add addAliases method
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* https://github.com/MoonScript/jQuery-ajaxTransport-XDomainRequest
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1.67 Omnibus-td-agent 2.3.5

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1.68 OpenComponent 0.44.7

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1.69 opencomponents 0.36.15

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

OC wouldn’t exist without some fantastic Open-Source libraries:

* jQuery
* head.js
* Jade runtime
* Handlebars runtime
* jQuery-ajaxTransport-XDomainRequest

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1.70 pika 0.11.2

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Name: jquery Tooltip
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Name: jquery placeholder
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Name: jquery smartbanner
Link: https://github.com/jasny/jquery.smartbanner
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Name: json2.js
Link: http://json.org/
License: Public domain
Notes:
- reference implementation

Name: jshrink
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Link: http://www.getrank.org/free-pagerank-script
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Name: Chroma.js
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Name: qTip2 - Pretty powerful tooltips
Link: http://craigsworks.com/projects/.qtip2/
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Name: Raphal - JavaScript Vector Library
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Name: lessphp
Link: http://leafo.net/lessphp
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Name: Symfony Console Component
Link: https://github.com/symfony/Console
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Name: AngularJS
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Name: Solar System icons - Dan Wiersema
Link: http://www.iconspedia.com/icon/neptune-4672.html
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Name: Wine project - tahoma.ttf font
Link: http://source.winehq.org/git/wine.git/blob_plain/HEAD:/fonts/tahoma.ttf
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1.73 polymer v3.0.0

1.74 prismjs 1.15.0

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1.75 promise-polyfill 6.0.2

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1.76 puppet 3.8.3 :1.el6

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Puppet Java Module - Puppet module for managing Java

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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

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1.78 rabbitmq-server 3.6.5-1 :1

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JMS Client for Pivotal RabbitMQ 1.4.6 GA

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amqp-client-3.5.6-sources.jar\com\rabbitmq\client\impl\VariableLinkedBlockingQueue.java

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1.79 redis 4.0.10

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1.80 requests 2.18.4

1.81 rs-cors 1.0

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1.83 sarama 1.12.0

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1.84 shellwords 0.1.0

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1.85 ThreeJS 0.0.68

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1.86 tomb 17

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1.87 Ubuntu Cloud 15.10

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BSON library for Go

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mgo - MongoDB driver for Go

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package github

import (   "context"   "fmt"
)

// LicensesService handles communication with the license related methods of the GitHub API.
// GitHub API docs: https://developer.github.com/v3/licenses/ type LicensesService service

// RepositoryLicense represents the license for a repository.

// RepositoryLicense struct {   Name *string `json:"name,omitempty"`   Path *string `json:"path,omitempty"`

    SHA *string `json:"sha,omitempty"`
    Size *int `json:"size,omitempty"`
    URL *string `json:"url,omitempty"`
    HTMLURL *string `json:"html_url,omitempty"`
    GitURL *string `json:"git_url,omitempty"`
    DownloadURL *string `json:"download_url,omitempty"`
    Type *string `json:"type,omitempty"`
    Content *string `json:"content,omitempty"`
    Encoding *string `json:"encoding,omitempty"`
    License *License `json:"license,omitempty"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL  *string `json:"url,omitempty"

    SPDXID         *string   `json:"spdx_id,omitempty"`
    HTMLURL        *string   `json:"html_url,omitempty"
    Featured       *bool     `json:"featured,omitempty"
    Description    *string   `json:"description,omitempty"
    Implementation *string   `json:"implementation,omitempty"
    Permissions    *[]string `json:"permissions,omitempty"
    Conditions     *[]string `json:"conditions,omitempty"
    Limitations    *[]string `json:"limitations,omitempty"
    Body           *string   `json:"body,omitempty"
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([][]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    var licenses [][]*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
if err != nil {
    return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

license := new(License)
resp, err := s.client.Do(ctx, req, license)
if err != nil {
    return nil, resp, err
}

return license, resp, nil

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1.90 webcomponentsjs 2.0.3

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1.93 zap 0.2.9

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