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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

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1.2 ansible 2.7.5-1 :el7
1.2.1 Available under license :

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

import os
import json
import pytest
import sys

from nose.plugins.skip import SkipTest
if sys.version_info < (2, 7):
    raise SkipTest("F5 Ansible modules require Python >= 2.7")

from ansible.compat.tests import unittest
from ansible.compat.tests.mock import Mock
from ansible.compat.tests.mock import patch
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
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import iControlUnexpectedHTTPError
    from test.unit.modules.utils import set_module_args
except ImportError:
    try:
        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
from ansible.module_utils.network.f5.common import F5ModuleError
from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
from units.modules.utils import set_module_args
except ImportError:
    raise SkipTest("F5 Ansible modules require the f5-sdk Python library")

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()

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',
        password='password',
        server='localhost',
        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

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

import os
import json
import pytest
import sys
from nose.plugins.skip import SkipTest
if sys.version_info < (2, 7):
    raise SkipTest("F5 Ansible modules require Python >= 2.7")
from ansible.compat.tests import unittest
from ansible.compat.tests.mock import Mock
from ansible.compat.tests.mock import patch
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
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import iControlUnexpectedHTTPError
    from test.unit.modules.utils import set_module_args
except ImportError:
    try:
        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
        from ansible.module_utils.network.f5.common import F5ModuleError
        from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
        from units.modules.utils import set_module_args
    except ImportError:
        raise SkipTest("F5 Ansible modules require the f5-sdk Python library")

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,
            password='password',
            server='localhost',
            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)
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

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

import os
import json
import sys
from nose.plugins.skip import SkipTest
if sys.version_info < (2, 7):
    raise SkipTest("F5 Ansible modules require Python >= 2.7")

from ansible.compat.tests import unittest
from ansible.compat.tests.mock import Mock
from ansible.compat.tests.mock import patch
from ansible.module_utils.basic import AnsibleModule
try:
    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
    from library.module_utils.util.network.f5.common import F5ModuleError
    from library.module_utils.util.network.f5.common import iControlUnexpectedHTTPError
    from test.unit.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
from ansible.module_utils.network.f5.common import F5ModuleError
from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
from units.modules.utils import set_module_args
except ImportError:
    raise SkipTest("F5 Ansible modules require the f5-sdk Python library")

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):
        pass
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,
            server='localhost',
            user='admin',
            password='password'
        )
    )

    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.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 -*-
#
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from __future__ import (absolute_import, division, print_function)
__metaclass__ = type

import os
import json
import pytest
import sys
from nose.plugins.skip import SkipTest
if sys.version_info < (2, 7):
    raise SkipTest("F5 Ansible modules require Python >= 2.7")

from ansible.compat.tests import unittest
from ansible.compat.tests.mock import Mock
from ansible.compat.tests.mock import patch
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
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import iControlUnexpectedHTTPError
    from test.unit.modules.utils import set_module_args
except ImportError:
    try:
        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
        from ansible.module_utils.network.f5.common import F5ModuleError
        from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
        from units.modules.utils import set_module_args
    except ImportError:
        raise SkipTest("F5 Ansible modules require the f5-sdk Python library")

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

def test_main():
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',
            password='password',
            server='localhost',
            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'

{"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"}
"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-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/offerings/XXXX-XXXX-XXXX-XXXX-XXXX",
"sortName": "Registration Key Pool Item",
"status": "READY"
}
.. _contributor_license_agreement:

****************************
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#!/usr/bin/python
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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 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
    notes:
    - This module will also auto-assign the current vCenter to the license key
      if the product matches the license key, and vCenter is currently assigned
      an evaluation license only.
    - The evaluation license (00000-00000-00000-00000-00000) is not listed
      when unused.
extends_documentation_fragment: vmware.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
'''

RETURN = r'''
languages:
    description: list of license keys after module executed
    returned: always
try:
    from pyVmomi import vim
    HAS_PYVMOMI = True
except ImportError:
    HAS_PYVMOMI = False

from ansible.module_utils.basic import AnsibleModule
from ansible.module_utils.vmware import connect_to_api, vmware_argument_spec

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

def list_keys(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']),
    ))

    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(),
  )

if not HAS_PYVMOMI:
    module.fail_json(msg='pyvmomi is required for this module')

content = connect_to_api(module)
lm = content.licenseManager

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

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

        # Automatically assign to current vCenter, if needed
        key = find_key(lm.licenses, license)
        if content.about.name in key.name:
            try:
                lam = lm.licenseAssignmentManager
                lam.UpdateAssignedLicense(entity=content.about.instanceUuid, licenseKey=license)
            except:
                module.warn('Could not assign "%s" (%s) to vCenter.' % (license, key.name))

            result['licenses'] = list_keys(lm.licenses)
            if module._diff:
                result['diff']['after'] = '
'.join(result['licenses']) + '
'
    elif state == 'absent' and license in result['licenses']:
        # Check if key is in use
key = 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'] = list_keys(lm.licenses)
if module._diff:
    result['diff']['after'] = '\n'.join(result['licenses']) + '\n'

module.exit_json(**result)

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

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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: 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 (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
    cdmii:
      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):
    return (a > b) - (a < b)

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)
        return True
    except netapp_utils.zapi.NaApiError as error:
        # Error 15661 - Object not found
        if to_native(error.code) == "15661":
            return False
        else:
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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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 (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.
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_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 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:
        self.server.invoke_successfully(remove_expired,
            enable_tunneling=False)
    except netapp_utils.zapi.NaApiError as e:
        self.module.fail_json(msg="Error removing expired licenses: %s" %
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 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 not license_status == new_license_status:
        changed = True
        license_status = new_license_status
        self.update_licenses()
        self.apply_licenses()
changed = True

self.module.exit_json(changed=changed)

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

if __name__ == '__main__':
    main()

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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 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 = 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.
  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.
  default: present
  choices:
    - absent
    - 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-XXXXX
    accept_eula: yes
    password: secret
    server: lb.mydomain.com
    state: present
    user: admin
    delegate_to: localhost

- name: Remove a utility license from the system
  bigiq_utility_license:
license_key: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
password: secret
server: lb.mydomain.com
state: absent
user: admin
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
    from library.module_utils.network.f5.common import exit_json
    from library.module_utils.network.f5.common import fail_json
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.common import exit_json
    from ansible.module_utils.network.f5.common import fail_json

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

    api_attributes = [
        'regKey'
    ]

    returnables = [
        'license_key'
    ]

    updatables = [
        'license_key'
    ]
```python
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):
    @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):
```
```python
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 = kwargs.get('client', None)
        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
```

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',
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)
        elif 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 = [
            ['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:
    client = F5RestClient(**module.params)
    mm = ModuleManager(module=module, client=client)
    results = mm.exec_module()
    exit_json(module, results, client)
except F5ModuleError as ex:
    fail_json(module, ex, client)

if __name__ == '__main__':
    main()

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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 = r'''
---
module: bigiq_regkey_license_assignment
short_description: Manage regkey license assignment on BIG-IPs from a BIG-IQ
description:
- Manages the assignment of regkey 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: 2.6
options:
pool:
    description:
    - The registration key pool to use.
    required: True
key:
    description:
    - The registration key that you want to assign from the pool.
    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.

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.
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.
device_password:
description:
- The password of the C(device_username).
- When C(managed) is C(no), this parameter is required.
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.
default: present
choices:
- present
- absent
extends_documentation_fragment: f5
author:
- Tim Rupp (@caphrim007)

EXAMPLES = r""
- 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
password: secret
server: lb.mydomain.com
state: present
user: admin
delegate_to: localhost

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

- name: Register a managed device, by UUID
  bigiq_regkey_license_assignment:
    pool: my-regkey-pool
    key: XXXX-XXXX-XXXX-XXXX
    device: 7141a063-7cf8-423f-9829-9d40599fa3e0
    managed: yes
    password: secret
    server: lb.mydomain.com
    state: present
    user: admin
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.common import exit_json
from library.module_utils.network.f5.common import fail_json
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.common import exit_json
from ansible.module_utils.network.f5.common import fail_json
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}/offerings/{3}/members/?$filter={4}'.format(
    self.client.provider['server'],
    self.client.provider['server_port'],
    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 = kwargs.get('client', None)
        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 = 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 _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)
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_name, self.want.offering_name, self.want.member_id)
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.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)
        else:
            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:
        client = F5RestClient(**module.params)
        mm = ModuleManager(module=module, client=client)
        results = mm.exec_module()
        exit_json(module, results, client)
    except F5ModuleError as ex:
        fail_json(module, ex, client)

if __name__ == '__main__':
    main()

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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 = 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.
default: hourly
choices:
- hourly
- daily
- monthly
- yearly
key:
description:
- The registration key that you want choose an offering from.
required: True
offering:
description:
- Name of the license offering to assign to the device.
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.
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.
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.
device_password:
description:
- The password of the C(device_username).
- When C(managed) is C(no), this parameter is required.
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.

default: present
choices:
- present
- absent
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.common import exit_json
  from library.module_utils.network.f5.common import fail_json
  from ansible.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.common import exit_json
  from ansible.module_utils.network.f5.common import fail_json
  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):
        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 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 = kwargs.get('client', None)
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
    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,
        self.want.offering_id,
        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.")
    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:
        client = F5RestClient(**module.params)
        mm = ModuleManager(module=module, client=client)
        results = mm.exec_module()
        exit_json(module, results, client)
    except F5ModuleError as ex:
        fail_json(module, ex, client)

if __name__ == '__main__':
    main()

#!/usr/bin/python
# -*- coding: utf-8 -*-
#
# Copyright (c) 2016 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 = ''
---

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.
  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.
    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.
    default: present
    choices:
      - absent
      - 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
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.urls import open_url
from ansible.module_utils.six import iteritems
import re
import sys
import time
import xml.etree.ElementTree
try:
    from library.module_utils.network.f5.bigip import HAS_F5SDK
    from library.module_utils.network.f5.bigip import F5Client
    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 cleanup_tokens
    from library.module_utils.network.f5.common import fq_name
    from library.module_utils.network.f5.icontrol import iControlRestSession
    from library.module_utils.network.f5.icontrol import Request
from library.module_utils.network.f5.icontrol import Response
try:
    from library.module_utils.network.f5.common import iControlUnexpectedHTTPError
    from f5.sdk_exception import UtilError
except ImportError:
    HAS_F5SDK = False
except ImportError:
    from ansible.module_utils.network.f5.bigip import HAS_F5SDK
    from ansible.module_utils.network.f5.bigip import F5Client
    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 cleanup_tokens
    from ansible.module_utils.network.f5.common import fq_name
    from ansible.module_utils.network.f5.common import f5_argument_spec
    from ansible.module_utils.network.f5.icontrol import iControlRestSession
    from ansible.module_utils.network.f5.icontrol import Request
    from ansible.module_utils.network.f5.icontrol import Response
try:
    from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
    from f5.sdk_exception import UtilError
except ImportError:
    HAS_F5SDK = False

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'
    }
    return result

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

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 = [
    ]
    returnables = [
    ]
    updatables = [
    ]

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 = """<?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/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
<SOAP-ENV:Header/>
<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):

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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 = kwargs.get('client', None)
        self.want = ModuleParameters(params=self.module.params, client=self.client)
        self.have = ApiParameters(client=self.client)
        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
    try:
        if state == "present":
            changed = self.present()
        elif state == "absent":
            changed = self.absent()
    except iControlUnexpectedHTTPError as e:
        raise F5ModuleError(str(e))

    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():
        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 read_dossier_from_device(self):
    result = self.client.api.tm.util.get_dossier.exec_cmd(
        'run', utilCmdArgs='-b {0}'.format(self.want.license_key)
    )
    try:
        return result.commandResult
    except Exception:
        return None

def generate_license_from_remote(self):
    mgmt = iControlRestSession()
    mgmt.verify = False
    mgmt.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 as ex:
    continue

try:
    resp = LicenseXmlParser(content=resp._content)
    result = resp.json()
except F5ModuleError as ex:
    # 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 as ex:
    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(  
        "License return request timed out."
    )
"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):
    resource = self.client.api.tm.shared.licensing.registration.load()
    try:
        if resource.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 as ex:
            pass
        time.sleep(5)

def _is_mcpd_ready_on_device(self):
    try:
        output = self.client.api.tm.util.bash.exec_cmd(
            'run',
            utilCmdArgs='-c "tmsh show sys mcp-state | grep running"'
        )
        if hasattr(output, 'commandResult'):
            return True
    except Exception as ex:
        pass
        return False
except Exception as ex:
    pass
return False

def any_license_exists(self):
    resource = self.client.api.tm.shared.licensing.registration.load()
    try:
        if resource.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'\1', license['license'])
        command = "cat > /config/bigip.license <<EOF
{0}
EOF".format(license_payload)
        command = '-c "{0}"'.format(command)
        self.client.api.tm.util.bash.exec_cmd('run', utilCmdArgs=command)
        return True

    def upload_eula_to_device(self, license):
        eula_payload = re.sub(self.escape_patterns, r'\1', license['eula'])
        command = "cat > LICENSE.F5 <<EOF
{0}
EOF".format(license_payload)
        command = '-c "{0}"'.format(command)
        self.client.api.tm.util.bash.exec_cmd('run', utilCmdArgs=command)
        return True
def reload_license(self):
    command = '-c "[0]".format("/usr/bin/reloadlic")
    self.client.api.tm.util.bash.exec_cmd('run', utilCmdArgs=command)
    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):
    # UtilError should be raised when non-existent file is mentioned
    try:
        self.client.api.tm.util.unix_rm.exec_cmd('run', utilCmdArgs='/config/bigip.license'
    )
    except UtilError as ex:
        if 'No such file or directory' in str(ex):
            return True
        else:
            raise F5ModuleError(str(ex))
    return True

def remove_eula_from_device(self):
    # UtilError should be raised when non-existent file is mentioned
    try:
        self.client.api.tm.util.unix_rm.exec_cmd('run', utilCmdArgs='/LICENSE.F5'
    )
    except UtilError as ex:
        if 'No such file or directory' in str(ex):
            return True
        else:
            raise F5ModuleError(str(ex))
    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'],
                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
        )
        if not HAS_F5SDK:
            module.fail_json(msg="The python f5-sdk module is required")

        try:
            client = F5Client(**module.params)
            mm = ModuleManager(module=module, client=client)
            results = mm.exec_module()
            cleanup_tokens(client)
            module.exit_json(**results)
        except F5ModuleError as ex:
            cleanup_tokens(client)
            module.fail_json(msg=str(ex))

    if __name__ == '__main__':
        main()
#!/usr/bin/python
# -*- coding: utf-8 -*-
#
# Copyright: (c) 2017, F5 Networks Inc.
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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 = 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.
        required: True
    license_key:
        description:
            - The license key to put in the pool.
        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.
default: present
choices:
- absent
- 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
    password: secret
    server: lb.mydomain.com
    state: present
    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
    password: secret
    server: lb.mydomain.com
    state: absent
    user: admin
    delegate_to: localhost
"

RETURN = r""
description:
  description: The new description of the license key.
  returned: changed
  type: string
  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 HAS_F5SDK
from library.module_utils.network.f5.bigiq import F5Client
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
try:
    from library.module_utils.network.f5.common import iControlUnexpectedHTTPError
except ImportError:
    HAS_F5SDK = False
except ImportError:
    from ansible.module_utils.network.f5.bigiq import HAS_F5SDK
    from ansible.module_utils.network.f5.bigiq import F5Client
    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
try:
    from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
except ImportError:
    HAS_F5SDK = False

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.client.api.cm.device.licensing.pool.regkey.licenses_s.get_collection()
        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

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 = kwargs.get('client', None)
        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

    try:
        if state == "present":
            changed = self.present()
        elif state == "absent":
            changed = self.absent()
    except iControlUnexpectedHTTPError as e:
        raise F5ModuleError(str(e))

    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):
    collection = self.client.api.cm.device.licensing.pool.regkey.licenses_s
    pool = collection.licenses.load(id=self.want.regkey_pool_uuid)
    collection = pool.offerings_s.get_collection()
    resource = next((x for x in collection if x.regKey == self.want.license_key), None)
    if resource is None:
        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()
    collection = self.client.api.cm.device.licensing.pool_regkey.licenses_s
    pool = collection.licenses.load(id=self.want.regkey_pool_uuid)
    resource = pool.offerings_s.offerings.create(
        status='ACTIVATING_AUTOMATIC',
        **params
    )
    for x in range(60):
        resource.refresh()
        if resource.status == 'READY':
            break
        elif resource.status == 'ACTIVATING_AUTOMATIC_NEED_EULA_ACCEPT':
            resource.modify(
                status='ACTIVATING_AUTOMATIC_EULA_ACCEPTED',
                eulaText=resource.eulaText
            )
        elif resource.status == 'ACTIVATION_FAILED':
            raise F5ModuleError(str(resource.message))
            time.sleep(1)

    def wait_for_status(self, resource, status):
for x in range(60):
    resource.refresh()
    if resource.status == status:
        return
    time.sleep(1)

def update_on_device(self):
    params = self.changes.api_params()
    collection = self.client.api.cm.device.licensing.pool.regkey.licenses_s
    pool = collection.licenses.load(id=self.want.regkey_pool_uuid)
    collection = pool.offerings_s.get_collection()
    resource = next((x for x in collection if x.regKey == self.want.license_key), None)
    if resource is None:
        return False
    resource.modify(**params)

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

def remove_from_device(self):
    collection = self.client.api.cm.device.licensing.pool.regkey.licenses_s
    pool = collection.licenses.load(id=self.want.regkey_pool_uuid)
    collection = pool.offerings_s.get_collection()
    resource = next((x for x in collection if x.regKey == self.want.license_key), None)
    if resource is None:
        return False
    if resource:
        resource.delete()

def read_current_from_device(self):
    collection = self.client.api.cm.device.licensing.pool.regkey.licenses_s
    pool = collection.licenses.load(id=self.want.regkey_pool_uuid)
    collection = pool.offerings_s.get_collection()
    resource = next((x for x in collection if x.regKey == self.want.license_key), None)
    if resource is None:
        return False
    result = resource.attrs
    return ApiParameters(params=result)

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
    )
    if not HAS_F5SDK:
        module.fail_json(msg="The python f5-sdk module is required")
    try:
        client = F5Client(**module.params)
        mm = ModuleManager(module=module, client=client)
        results = mm.exec_module()
        module.exit_json(**results)
    except F5ModuleError as e:
        module.fail_json(msg=str(e))

if __name__ == '__main__':
    main()

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

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Version 3, 29 June 2007

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# Test code for the vcenter license module.
# Copyright: (c) 2017, Dag Wieers <dag@wieers.com>
# GNU General Public License v3.0+ (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

- name: Store the vCenter container IP
  set_fact:
    vcenter_host: "{{ lookup('env', 'vcenter_host') }}"

- debug:
  var: vcenter_host

- name: Wait for vcsim controller to come online {{ vcenter_host }}
  wait_for:
    host: "{{ vcenter_host }}"
    port: 5000
    state: started

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

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

- name: Wait for vcsim server to come up online {{ vcenter_host }}
  wait_for:
    host: "{{ vcenter_host }}"
    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: '{{ vcenter_host }}'
    # 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: '{{ vcenter_host }}'
    # 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: '{{ vcenter_host }}'
    # username: '{{ vcsim_instance["json"]['username'] }}'
    # password: '{{ vcsim_instance["json"]['password'] }}'
    validate_certs: no
    license: 00000-00000-00000-00000-00001
    state: present
    ignore_errors: yes

shippable/vcenter/group1
cloud/vcenter

# -*- 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

from nose.plugins.skip import SkipTest
if sys.version_info < (2, 7):
raise SkipTest("F5 Ansible modules require Python >= 2.7")

from ansible.compat.tests import unittest
from ansible.compat.tests.mock import Mock
from ansible.compat.tests.mock import patch
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
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import iControlUnexpectedHTTPError
    from test.unit.module_utils import set_module_args
except ImportError:
    try:
        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
        from ansible.modules.network.f5.bigiq_utility_license_assignment import ArgumentSpec
        from ansible.module_utils.network.f5.common import F5ModuleError
        from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
        from units.module_utils import set_module_args
    except ImportError:
        raise SkipTest("F5 Ansible modules require the f5-sdk Python library")

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',
            device_port='8443'
        ))
device_password='secret',
managed='no',
state='present',
password='password',
server='localhost',
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

1.3 apr 1.4.8-3 :el7_4.1
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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1.4 apr 1.4.8-3 :el7

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1.6 at 3.1.13-24 :el7

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

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

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

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

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

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

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

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

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1.12 bash-completion 2.1-6 :el7

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1.13 bc 1.06.95 :13.el7

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1.14 boost-atomic 1.53.0

1.14.1 Available under license:

Index: boost/mpl/print.hpp

--- boost/mpl/print.hpp(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
 : mpl::identity<T>
 #if defined(__MWERKS__) +
     aux::print_base
 #endif
+#{endif
+#{endif
 |
 #if defined(BOOST_MSVC)
     enum { n = sizeof(T) + -1 };  
 #elif defined(__MWERKS__) +
     void f(int);
-#{else
-    enum {
-        n =
-# if defined(__EDG_VERSION__) -
-        aux::dependent_unsigned<T>::value > -1
-# else
-        sizeof(T) > -1
-# endif
---
-        
-#endif
+#elif defined(__EDG_VERSION__)  
+    enum { n = aux::dependent_unsigned<T>::value > -1 };  
+#elif defined(BOOST_GCC)  
+    enum { n1 };  
+    enum { n2 };  
+    enum { n = n1 != n2 };  
+#else  
+    enum { n = sizeof(T) > -1 };  
+#endif  
};

#if defined(BOOST_MSVC)  
/*  
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* Boost Software License, Version 1.0. (See accompanying file  
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)  
*  
*/  

#include "licence_info.hpp"  
#include "bcp_imp.hpp"  
#include "fileview.hpp"  
#include <fstream>  
#include <iomanip>  
#include <cstring>  
#include <stdexcept>  
#include <boost/lexical_cast.hpp>  
#include <boost/filesystem/operations.hpp>  
#include <boost/throw_exception.hpp>


//  
// split_path is a small helper for outputting a path name,  
// complete with a link to that path:  
//
struct split_path  
{  
    const fs::path& root;  
    const fs::path& file;  
    split_path(const fs::path & r, const fs::path & f)  
        : root(r), file(f){}  
private:  
    split_path& operator=(const split_path&);  
};
std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << ">">" << p.file.string() << ">";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC \"/-//W3C//DTD HTML 4.0 Transitional//EN\"\n" "<html>\n" "<head>\n" "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<
        "</title>\n" "</head>\n"
"<body>
"<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << "</H1>"
"<H2>Contents</h2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
oos << "<a href="#summary">Licence Summary</a>
os << "<a href="#details">Licence Details</a>
while(i != j)
{
    // title:
    os << "<A href=""#"" << make_link_target(licenses.first[i->first].license_name) << ">
            "" << licenses.first[i->first].license_name << "," << i; 

}

os << "<a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>
if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
           <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
           <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
           <a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>
           <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
           <a href="#copyright">Copyright Holder Information</a>
}

os << "<a href="#depend">File Dependency Information</a>
</pre>";

// // input Information:
//
os << "<a name=""input"">Input Information</a><h2>
if(m_scan_mode)
oos << "<P>The following files were scanned for boost dependencies:<BR>"
else
os << "<P>The following Boost modules were checked:<BR>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>";
    ++si;
}
os << "</p>
The Boost path was: <code>" << m_boost_path.string() << "</code></p>";

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]*][[:blank:]*]define[[:blank:]*]+BOOST_VERSION[[:blank:]*]+(\d+);\nboost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</p>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href=""(see details)"></a>";
        os << "</P></BLOCKQUOTE>\n";
        ++i;
    }
}
and now the details:

```
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details">
<h2>Licence Details</h2>
while(i != j)
{ // title:
os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << ";"></a>" << licenses.first[i->first].license_name << "</H3>\n";
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
    // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:</P>
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "<BR>\n";
++x;
}
os << "</P></BLOCKQUOTE>\n";
// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
os << split_path(m_boost_path, *m) << "<br>\n";
++m;
}
os << "</P></BLOCKQUOTE>\n";
}
else
{
os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}

// Output list of files not found to be under license control:
//
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>
"<p>The following " << m_unknown_licenses.size() << " " had no recognisable license information:<"p>";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>";
  ++i2;
}
o += "</p></BLOCKQUOTE>";

// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>
"<p>The following " << m_unknown_authors.size() << " " had no recognisable copyright holder:<"p>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>";
  ++i2;
}
o += "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
  //
  // Output list of files that have been moved over to the Boost
  // Software License, along with enough information for human
  // verification.
  //
  // os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2>
"<p>The following " << m_converted_to_bsl.size() << " " can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:<"p>";
if (!m_converted_to_bsl.empty())
{
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
  conv_iterator i = m_converted_to_bsl.begin();
ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
{
    os << "<P>
" << file_num << " ] File: <tt>" << split_path(m_boost_path, i->first) << "</tt><br>
<table border="1">
  <tr>
    <td><pre>
" << i->second.first << "</pre></td>
    <td><pre>
" << i->second.second << "</pre></td>
  </tr>
</table>
" << ++i;
++file_num;
}
//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:" << BLOCKQUOTE;<P>";
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "</br>";
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
"<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:" << BLOCKQUOTE;<P>";
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "</br>";
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>:" << BLOCKQUOTE;<P>";
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>\n"));
//
// output a table of copyright information:
//
// os << "<H2><a name="copyright">Copyright Holder Information</a><H2>&lt;table border="1"\n";
std::map<std::string, std::set<fs::path, path_less>>::const_iterator ad, ead;
ad = m_author_data.begin();
eaad = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>"
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " "
        ++fi;
    }
    os << "</td><\tr>\n";
    ++ad;
}
os << "</table>\n"
;

//
// output file dependency information:
//
// os << "<H2><a name="depend">File Dependency Information</a><H2>&lt;BLOCKQUOTE>&lt;pre>\n";
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    while(i != ie)
{  
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m Dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << " <I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>";
if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ": ";
    std::runtime_error e(msg);
boost::throw_exception(e);
}
}

[article Copyright Test
[quickbook 1.5]
[copyright 1977,1985 Someone else]
]

[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
  <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
  <year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
  <year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>

[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

Copyright:

/+
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+/

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(ags@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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/////////////////////////////////////////////////////////////////////////////
//
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//
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// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
//
/////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>

#ifdef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_end.hpp>
#endif

/////////////////////////////////////////////////////////////////////////////
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
    static const bool value = C_;}
;

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {}; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::::type type;
};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
}
class false_t { char dummy[2]; }; 
static true_t dispatch(U); 
static false_t dispatch(...); 
static const T &trigger(); 
public: 
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t); 
};

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
 , typename T1
 , typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
 , typename F1
 , typename F2
>
struct eval_if_c
 : if_c<C,F1,F2>::type
{
};

template<
    typename C
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC__)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) &&
!defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)()> 
{
    static const bool value = true;
};

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{
    static const bool value = true;
};

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{
    static const bool value = true;
};

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#ifndef _MANAGED
template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{  static const bool value = true;  };

#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{  static const bool value = true;  };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{  static const bool value = true;  };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{  static const bool value = true;  };

#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{  static const bool value = true;  };

#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{  static const bool value = true;  };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{
    static const bool value = true;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{
    static const bool value = true;
};

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{
    static const bool value = true;
};

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{
    static const bool value = true;
};

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{
    static const bool value = true;
};
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{
    static const bool value = true;
};

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{
    static const bool value = true;
};
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{
    static const bool value = false;
};

template<typename T>
struct is_unary_or_binary_function
{
    static const bool value = is_unary_or_binary_function_impl<T>::value;
};
//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
            , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template <typename V>
    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);

    static T *t;
    static U *u;

    static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{ typedef const T type; }

template<typename T>
struct remove_const
{ typedef T type; }

template<typename T>
struct remove_const<const T>
{ typedef T type; }

template<typename T>
struct remove_cv
{ typedef T type; }

template<typename T>
struct remove_cv<const T>
{ typedef T type; }

template<typename T>
struct remove_cv<const volatile T>
{ typedef T type; }

template<typename T>
struct remove_cv<volatile T>
{ typedef T type; }

template<class T>
struct remove_reference
{
  typedef T type;
};

template<class T>
struct remove_reference<T&>
{
  typedef T type;
};

template<class Class>
class is_empty_class
{
  template<typename T>
  struct empty_helper_t1 : public T
  {
    empty_helper_t1();
    int i[256];
  };
struct empty_helper_t2
{ int i[256]; };

public:
static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>:value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
#  pragma once
#endif

#include <cstdlib>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
    operator bool() const { return bool_::value; }
};

typedef bool_<true>   true_;
typedef bool_<false>  false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

} // namespace container_detail
} // namespace container
} // namespace boost
template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{  
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{  
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{  
    static const std::size_t value = 0;
};

template<typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T, val> type;
            };

            template <bool C_>
            struct bool_ : integral_constant<bool, C_> {
                static const bool value = C_;
            };

            typedef bool_<true> true_;
            typedef bool_<false> false_;

            typedef true_ true_type;
            typedef false_ false_type;

            typedef char yes_type;
            struct no_type {
                char padding[8];
            };
        }
    }
}

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template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
    >
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
    >
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
// used for if

template<
typename T1
, typename T2
, typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
}
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--- end ---
Interoperability</p>

All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that <code>true_type</code> inherits from <code>boost::mpl::true_</code>, <code>false_type</code> inherits from <code>boost::mpl::false_</code>, and <code>integral_constant</code> inherits from <code>integral_c</code> (provided <code>T</code> is not <code>bool</code>)


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Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`).
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the "copyright" line and a pointer to where the full notice is found.

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1.24 container-selinux 2.74-1 :el7

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1.29 cryptsetup 1.7.4-3 :el7-3

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<H2 CLASS="title"><A NAME="INTRO">Introduction</A></H2>

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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END OF TERMS AND CONDITIONS
Appendix: How to Apply These Terms to Your New Libraries

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Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

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Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

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

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Gocheck - A rich testing framework for Go

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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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.hg

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https://github.com/golang/protobuf

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

## Installation ##
To use this software, you must:
- Install the standard C++ implementation of protocol buffers from
  https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from
  https://golang.org/
  See
  https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at
  https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run
  go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
  defaulting to $GOPATH/bin. It must be in your $PATH for the protocol
  compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that
generates Go source files that, once compiled, can access and manage
protocol buffers; and a library that implements run-time support for
encoding (marshaling), decoding (unmarshaling), and accessing protocol
buffers.

There is support for gRPC in Go using protocol buffers.
See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf
see http://github.com/gogo/protobuf/gogoproto/doc.go

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.
First you must compile the protocol buffer definitions and then import
them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out
parameter set to the directory you want to output the Go code to.

    protoc --gogo_out=. *.proto

The generated files will be suffixed .pb.go. See the Test code below
for an example using such a file.

The package comment for the proto library contains text describing
the interface provided in Go for protocol buffers. Here is an edited
version.
If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto. gogo.proto is located in github.com/gogo/protobuf/gogoproto This should be fine, since your import is the same. descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/ Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=:github.com/gogo/protobuf/protobuf *.proto

==========

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.
Helpers for getting values are superseded by the GetFoo methods and their use is deprecated. msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the
extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```proto
package example;

enum FOO {
  X = 17;
};

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
package main

import (
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
```
gRPC Support

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

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https://github.com/golang/protobuf

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For
information about protocol buffers themselves, see
https://developers.google.com/protocol-buffers/

## Installation ##

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from
  https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from
  https://golang.org/

See
https://golang.org/doc/install
for details or, if you are using gccgo, follow the instructions at
https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run
go get -u github.com/golang/protobuf/[proto,protoc-gen-go]
The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
defaulting to $GOPATH/bin. It must be in your $PATH for the protocol
compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that
generates Go source files that, once compiled, can access and manage
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encoding (marshaling), decoding (unmarshaling), and accessing protocol
buffers.

There is support for gRPC in Go using protocol buffers.
See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf
## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the \(--gogo_out\) parameter set to the directory you want to output the Go code to.

```bash
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the \(\text{proto_path}\) to include the descriptor.proto and gogo.proto.

```bash
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable \(v\):

- Names are turned from camel_case to CamelCase for export.
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- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state.
- All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.

see http://github.com/gogo/protobuf/gogoprotobuf/doc.go
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.

msg.Foo = proto.String("hello") // set field

- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.
  Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

To create and play with a Test object from the example package,

package main

import ("log"
"github.com/gogo/protobuf/proto"


"path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type:  proto.Int32(17),
        OptionalGroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{
    }
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}

gRPC Support
=============  
If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

    protoc --gogo_out=plugins=grpc: *.proto

Extensions for Protocol Buffers to create more go like structures.

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The simplest way is to run
  
  go get -u github.com/golang/protobuf/ protoc-gen-go
  
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
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package example;
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package main

import (
  "log"
  "github.com/gogo/protobuf/proto"
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func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type:  proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
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  }
  // Now test and newTest contain the same data.
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  }
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```
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```

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================================================================================
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http://github.com/gogo/protobuf/gogoproto

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

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Consider file test.proto, containing

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package example;

enum FOO { X = 17; }

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  required string label = 1;
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if test.GetLabel() != newTest.GetLabel() {
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  }
  data, err := proto.Marshal(test)
```
if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.

---

gRPC Support
=============  
If a proto file specifies RPC services, protoc-gen-go can be instructed to
generate code compatible with gRPC (http://www.grpc.io/). To do this, pass
the `plugins` parameter to protoc-gen-go; the usual way is to insert it into
the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

---

Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

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

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This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For
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  https://golang.org/doc/install
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- Grab the code from the repository and install the proto package.
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  go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/ Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
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The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

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Consider file test.proto, containing

package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
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}

To create and play with a Test object from the example package,
package main

import {
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func main() {
  test := &example.Test {
    Label: proto.String("hello"),
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    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
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  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
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      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
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  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
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This package and the code it generates requires at least Go 1.4.

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See https://golang.org/doc/install for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package. The simplest way is to run
  
go get -u github.com/golang/protobuf/\{proto,\proto-gen-go\}

The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

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---

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http://github.com/gogo/protobuf/gogoproto

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

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This package and the code it generates requires at least Go 1.4.
This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

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To use this software, you must:
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- Of course, install the Go compiler and tools from https://golang.org/
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- Grab the code from the repository and install the proto package.
  The simplest way is to run
  go get -u github.com/golang/protobuf/.../proto,protoc-gen-go
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

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protoc --gogo_out=.-I=.github.com/gogo/protobuf/protobuf *.proto

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The getters work even if the receiver is a nil message.
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All desired fields must be set before marshaling.
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That is, optional or required field int32 f becomes F *int32.
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Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
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Enum values are prefixed with the enum's type name. Enum types have
a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of
  the surrounding message type.
- Extensions are given descriptor names that start with E_,
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Consider file test.proto, containing

package example;

enum FOO { X = 17; };

message Test {
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  optional group OptionalGroup = 4 {
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  }
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To create and play with a Test object from the example package,

package main

import (  
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
    };
  data, err := proto.Marshal(test)
  if err != nil {
    print("Could not encode message: ")
    print(err)
  } else {
    print("The message was encoded to:
      
      ")
    for _, t := range data {
      print(t)
log.Fatal("marshaling error: ", err) 

newTest := &example.Test{} 

err = proto.Unmarshal(data, newTest) 
if err != nil { 
log.Fatal("unmarshaling error: ", err) 

// Now test and newTest contain the same data. 
if test.GetLabel() != newTest.GetLabel() { 
log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel()) 
}
// etc.

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**gRPC Support**

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

Extensio

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This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
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    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
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    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
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    // etc.
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the --go_out argument to protoc:

protoc --gogo_out=plugins=grpc:. *.proto

==============================================================================
=Godeps/_workspace/src/github.com/gogo/protobuf/protoc-gen-gogo/plugin licensed under: =

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googleapi.StringValue("hello") // set field
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https://github.com/golang/protobuf

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For
information about protocol buffers themselves, see
https://developers.google.com/protocol-buffers/

## Installation ##

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from
  https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from
  https://golang.org/
  See
  https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at
  https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run
  go get -u github.com/golang/protobuf/[proto.protoc-gen-go]
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers. See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see http://github.com/gogo/protobuf/gogoproto/doc.go

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in `github.com/gogo/protobuf/gogoproto` or `code.google.com/p/protobuf/trunk/src/` its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

The proto package converts data structures to and from the
wire format of protocol buffers. It works in concert with the
Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface
for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on v to set fields; just treat
  them as structure fields.
- There are getters that return a field's value if set,
  and return the field's default value if unset.
  The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state.
All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.
That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.
  Helpers for getting values are superseded by the
  GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
  - Constants are defined to hold the default values of all fields that
    have them. They have the form Default_StructName_FieldName.
  Because the getter methods handle defaulted values,
  direct use of these constants should be rare.
- Enums are given type names and maps from names to values.
  Enum values are prefixed with the enum's type name. Enum types have
  a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of
  the surrounding message type.
- Extensions are given descriptor names that start with E_,
  followed by an underscore-delimited list of the nested messages
  that contain it (if any) followed by the CamelCased name of the
  extension field itself. HasExtension, ClearExtension, GetExtension
  and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message,
  with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
To create and play with a Test object from the example package,

```go
go
package main

import (
    "log"
    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type:  proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}

---

**gRPC Support**

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into
the --go_out argument to protoc:

protoc --gogo_out=plugins=grpc:. *.proto

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

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https://github.com/golang/protobuf

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For
information about protocol buffers themselves, see
https://developers.google.com/protocol-buffers/

## Installation ##

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from
  https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from
  https://golang.org/
  See
  https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at
  https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run `go get -u github.com/golang/protobuf/{proto,protoc-gen-go}`.
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
  defaulting to $GOPATH/bin. It must be in your $PATH for the protocol
  compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that
generates Go source files that, once compiled, can access and manage
protocol buffers; and a library that implements run-time support for
encoding (marshaling), decoding (unmarshaling), and accessing protocol
buffers.

There is support for gRPC in Go using protocol buffers.
See the note at the bottom of this file for details.

There are no insertion points in the plugin.

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.
First you must compile the protocol buffer definitions and then import
them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --go_out
parameter set to the directory you want to output the Go code to.
protoc --go_out=. *.proto

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

==========

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset.
The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state.
All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.
That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.
Helpers for getting values are superseded by the
GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.
Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values.
Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_.
followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the
extension field itself. HasExtension, ClearExtension, GetExtension
and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message,
  with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

When the .proto file specifies `syntax="proto3"`, there are some differences:

- Non-repeated fields of non-message type are values instead of pointers.
- Getters are only generated for message and oneof fields.
- Enum types do not get an Enum method.

Consider file test.proto, containing

```proto
class FOO {
    X = 17;
}

message Test {
    required string label = 1;
    optional int32 type = 2 [default=77];
    repeated int64 reps = 3;
    optional group OptionalGroup = 4 {
        required string RequiredField = 5;
    }
}
```

To create and play with a Test object from the example package,

```go
package main

import (
    "log"
    "github.com/golang/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Reps: []int64{1, 2, 3},
        OptionalGroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        }
    }
```
data, err := proto.Marshal(test)
if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{
}
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
```

## Parameters ##

To pass extra parameters to the plugin, use a comma-separated parameter list separated from the output directory by a colon:

`protoc --go_out=plugins=grpc,import_path=mypackage:. *.proto`

- `import_prefix=xxx` - a prefix that is added onto the beginning of all imports. Useful for things like generating protos in a subdirectory, or regenerating vendored protobufs in-place.
- `import_path=foo/bar` - used as the package if no input files declare `go_package`. If it contains slashes, everything up to the rightmost slash is ignored.
- `plugins=plugin1+plugin2` - specifies the list of sub-plugins to load. The only plugin in this repo is `grpc`.
- `Mfoo/bar.proto=quux/shme` - declares that foo/bar.proto is associated with Go package quux/shme. This is subject to the import_prefix parameter.

## gRPC Support ##

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

`protoc --go_out=plugins=grpc:. *.proto`
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unsigned char LICENSE[] = {
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0x6e, 0x73, 0x65, 0x20, 0x28, 0x4d, 0x49, 0x54, 0x29, 0x0a, 0x0a, 0x43,
0x6f, 0x70, 0x79, 0x72, 0x69, 0x67, 0x68, 0x74, 0x20, 0x28, 0x63, 0x29,
0x20, 0x32, 0x30, 0x31, 0x35, 0x20, 0x54, 0x68, 0x6f, 0x6d, 0x61, 0x73,
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Go support for Protocol Buffers - Google's data interchange format

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Gocheck - A rich testing framework for Go

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Gocheck - A rich testing framework for Go

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REVOKE A PERMISSION OF KEYS THAT ARE GREATER THAN OR EQUAL TO THE GIVEN KEY USING BYTE COMPARISON

REVOKE A PREFIX PERMISSION

VERIFY CERTIFICATES OF TLS-ENABLED SECURE SERVERS USING THIS CA BUNDLE

IDENTIFY SECURE CLIENT USING THIS TLS CERTIFICATE FILE


```
.\b\-\-command\-timeout\fP=5s
   timeout for short running command (excluding dial timeout)

.\b\-\-debug\fP=\fPfalse
   enable client\-side debug logging

.\b\-\-dial\-timeout\fP=2s
   dial timeout for client connections

.\b\-\-endpoints\fP=\fP[127.0.0.1:2379]
   gRPC endpoints

.\b\-\-hex\fP=\fPfalse
   print byte strings as hex encoded strings

.\b\-\-insecure\-skip\-tls\-verify\fP=\fPfalse
   skip server certificate verification

.\b\-\-insecure\-transport\fP=\fPtrue
   disable transport security for client connections

.\b\-\-key\fP=""
   identify secure client using this TLS key file

.\b\-\-user\fP=""
   username[:password] for authentication (prompt if password is not supplied)

.\b\-w\fP, \fB\-\-write\-out\fP="simple"
   set the output format (fields, json, protobuf, simple, table)

.SH SEE ALSO
.PARAM
etcdctl3\-role(1)

.SH HISTORY
.PARAM
```
etcdctl role\-grant\-permission \- Grants a key to a role

etcdctl role grant\-permission [OPTIONS]

Grants a key to a role

-grant a permission of keys that are greater than or equal to the given key using byte compare

-grant a prefix permission

verify certificates of TLS\-enabled secure servers using this CA bundle

d identify secure client using this TLS certificate file

timeout for short running command (excluding dial timeout)

enable client\-side debug logging


```
-\(\text{-dial-timeout}\)\(=2s\)
   dial timeout for client connections

-\(\text{-endpoints}\)\(=[127.0.0.1:2379]\)
   gRPC endpoints

-\(\text{-hex}\)\(=[false]\)
   print byte strings as hex encoded strings

-\(\text{-insecure-skip-tls-verify}\)\(=[false]\)
   skip server certificate verification

-\(\text{-insecure-transport}\)\(=[true]\)
   disable transport security for client connections

-\(\text{-key}\)\(=''\)
   identify secure client using this TLS key file

-\(\text{-user}\)\(=''\)
   username[:password] for authentication (prompt if password is not supplied)

-\(\text{-w, \text{-write-out}}\)\(=''\text{simple}'\)
   set the output format (fields, json, protobuf, simple, table)

.SH SEE ALSO
.PP
\(\text{etcdctl3\-role(1)}\)\(=\)

.SH HISTORY
.PP
2017-11-20 Auto generated by spf13/cobra
```

1.46 git 1.8.3.1-20 :el7
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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From e054a627d7eaeede423bc25a6c1cc472b2526846 Mon Sep 17 00:00:00 2001
From: Poornima G <pgurusid@redhat.com>
Date: Wed, 24 Aug 2016 09:55:32 +0530
Subject: [PATCH 126/141] upcall: Add permission change flag to iatt flag

Currently IATT_UPDATE_FLAGS is (UP_NLINK | UP_MODE | UP_OWN | UP_SIZE | UP_TIMES | UP_ATIME). But it should also have UP_PERM and permission bits are apart of IATT.

This change will have no effect on the existing users as IATT_UPDATE_FLAGS is currently used only by md-cache. And the changes in md-cache to consume cache invalidation is not part of any release yet.

Change-Id: I7efad44972add152f5f981d733fb8191dc7ef8ef
BUG: 1284873
Signed-off-by: Poornima G <pgurusid@redhat.com>
Reviewed-on: http://review.gluster.org/15301
NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
Smoke: Gluster Build System <jenkins@build.gluster.org>
Reviewed-by: Raghavendra G <rgowdapp@redhat.com>
Reviewed-by: Prashanth Pai <ppai@redhat.com>
Reviewed-by: Jeff Darcy <jdarcy@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/87039
Reviewed-by: Rajesh Joseph <rjoseph@redhat.com>
Tested-by: Rajesh Joseph <rjoseph@redhat.com>

---
libglusterfs/src/upcall-utils.h | 2 +- 1 files changed, 1 insertions(+), 1 deletions(-)
diff --git a/libglusterfs/src/upcall-utils.h b/libglusterfs/src/upcall-utils.h
index f4b15e3..64571c5 100644
--- a/libglusterfs/src/upcall-utils.h
+++ b/libglusterfs/src/upcall-utils.h
@@ -53,7 +53,7 @@
 #define UP_NLINK_FLAGS          (UP_NLINK | UP_TIMES)
 #define IATT_UPDATE_FLAGS       (UP_NLINK | UP_MODE | UP_OWN | UP_SIZE | UP_TIMES | UP_ATIME | UP_PERM)
```c
typedef enum {
    GF_UPCALL_EVENT_NULL,
    --
} 1.7.1
```

From a2cb732a71d341edb65e4cdbf103a3f3ec35e8589 Mon Sep 17 00:00:00 2001
From: Susant Palai <spalai@redhat.com>
Date: Wed, 17 Aug 2016 15:10:04 +0530
Subject: [PATCH 72/86] cluster/dht: heal root permission post add-brick

Post add-brick event the new brick will have permission of 755 by default. If the root directory permission was other than 755, that does not get healed to the new brick leading to permission errors/inconsistencies.

For choosing source of attr heal we can trust the subvols which have layouts with latest ctime(as part of missing directory heal, we heal the proper attr). In case none of the subvols have layout, return ESTALE to retrigger a fresh lookup.

Note: This patch heals the permission of the root directories only. Since, permission healing of directory is not straight forward and required intrusive fix, those are not addressed here.

> Reviewed-on: http://review.gluster.org/15195
> Smoke: Gluster Build System <jenkins@build.gluster.org>
> CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
> NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
> Reviewed-by: Raghavendra G <rgowdapp@redhat.com>

> Reviewed-on: http://review.gluster.org/15465
> Smoke: Gluster Build System <jenkins@build.gluster.org>
> NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
> CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
> Reviewed-by: Raghavendra G <rgowdapp@redhat.com>

Change-Id: If894e3895d070d46b62d2452e52c1eaaacf56c29
BUG: 1294035
Signed-off-by: Susant Palai <spalai@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/84877
Reviewed-by: Atin Mukherjee <amukherje@redhat.com>
Tested-by: Atin Mukherjee <amukherje@redhat.com>

---
 tests/bugs/distribute/bug-1368012.t | 50 ++++++++++++++++++++++++++++++++++++++++ xlators/cluster/dht/src/dht-common.c | 32 ++++++++++++++++++++++++ xlators/cluster/dht/src/dht-selfheal.c | 16 +++++++-- 3 files changed, 93 insertions(+), 5 deletions(-) create mode 100644 tests/bugs/distribute/bug-1368012.t
diff --git a/tests/bugs/distribute/bug-1368012.t b/tests/bugs/distribute/bug-1368012.t
new file mode 100644
index 0000000..f89314b
--- /dev/null
+++ b/tests/bugs/distribute/bug-1368012.t
@@ -0,0 +1,50 @@
+#!/bin/bash
+
+. $(dirname $0)/../../include.rc
+. $(dirname $0)/../../volume.rc
+
cleanup;
+
+function get_permission {
+ stat -c "%A" $1
+
+
+## Start glusterd
+TEST glusterd;
+TEST pidof glusterd;
+TEST $CLI volume info;
+
+## Lets create volume
+TEST $CLI volume create $V0 $H0:/${V0}{1,2};
+
+## Verify volume is created
+EXPECT "$V0" volinfo_field $V0 'Volume Name';
+EXPECT 'Created' volinfo_field $V0 'Status';
+
+## Start volume and verify
+TEST $CLI volume start $V0;
+TEST $CLI volume set $V0 performance.stat-prefetch off
+EXPECT 'Started' volinfo_field $V0 'Status';
+TEST glusterfs -s $H0 --volfile-id=$V0 $M0
+
+## Test case: Add-brick
+-----------------------------------------------
+## change permission of both root
+TEST chmod 444 $M0
+
+## store permission for comparision
+TEST permission_root=`stat -c "%A" $M0`
+TEST echo $permission_root
+
+## Add-brick
+TEST $CLI volume add-brick $V0 $H0:/${V0}3
+
+## Allow one lookup to happen
+TEST pushd $M0
+TEST ls
+Generate another lookup
+echo 3 > /proc/sys/vm/drop_caches
+TEST ls
+#check root permission
+EXPECT_WITHIN "5" $permission_root get_permission $M0
+#check permission on the new-brick
+EXPECT $permission_root get_permission /${V0}3
+cleanup
diff --git a/xlators/cluster/dht/src/dht-common.c b/xlators/cluster/dht/src/dht-common.c
index 5fd0a16..2eb44a1 100644
--- a/xlators/cluster/dht/src/dht-common.c
+++ b/xlators/cluster/dht/src/dht-common.c
@@ -735,6 +735,27 @@ out:
  return ret;
}

+int static
+is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2)
+{
+    if ((prot1->owner.read != prot2->owner.read) ||
+        (prot1->owner.write != prot2->owner.write) ||
+        (prot1->owner.exec != prot2->owner.exec) ||
+        (prot1->group.read != prot2->group.read) ||
+        (prot1->group.write != prot2->group.write) ||
+        (prot1->group.exec != prot2->group.exec) ||
+        (prot1->other.read != prot2->other.read) ||
+        (prot1->other.write != prot2->other.write) ||
+        (prot1->other.exec != prot2->other.exec) ||
+        (prot1->suid != prot2->suid) ||
+        (prot1->sgid != prot2->sgid) ||
+        (prot1->sticky != prot2->sticky)) {
+        return 1;
+    } else {
+        return 0;
+    }
+}
+
+int
dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
  int op_ret, int op_errno,
@@ -856,14 +877,21 @@ dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
    local->stbuf.ia_ctime_nsec,
    stbuf->ia_ctime,
    stbuf->ia_ctime_nsec)) {
+    /* Choose source */
    local->prebuf.ia_gid = stbuf->ia_gid;
    local->prebuf.ia_uid = stbuf->ia_uid;
+    /*
if (__is_root_gfid (stbuf->ia_gfid))
    local->prebuf.ia_prot = stbuf->ia_prot;
}
}
if (local->stbuf.ia_type != IA_INVAL)
{
    if ((local->stbuf.ia_gid != stbuf->ia_gid) ||
        (local->stbuf.ia_uid != stbuf->ia_uid)) {
        (local->stbuf.ia_uid != stbuf->ia_uid) ||
        (__is_root_gfid (stbuf->ia_gfid) &&
        is_permission_different (&local->stbuf.ia_prot,
        &stbuf->ia_prot)) {
        local->need_selfheal = 1;
    }
}
@@ -928,6 +956,8 @@ out:
gf_uuid_copy (local->gfid, local->stbuf.ia_gfid);
local->stbuf.ia_gid = local->prebuf.ia_gid;
local->stbuf.ia_uid = local->prebuf.ia_uid;
+                        if (__is_root_gfid(local->stbuf.ia_gfid))
+                                local->stbuf.ia_prot = local->prebuf.ia_prot;
copy = create_frame (this, this->ctx->pool);
if (copy) {
    copy_local = dht_local_init (copy, &local->loc,
    diff --git a/xlators/cluster/dht/src/dht-selfheal.c b/xlators/cluster/dht/src/dht-selfheal.c
index 520a3f3..f43a235 100644
--- a/xlators/cluster/dht/src/dht-selfheal.c
+++ b/xlators/cluster/dht/src/dht-selfheal.c
@@ -2240,11 +2240,19 @@ dht_dir_attr_heal (void *data)
        for (i = 0; i < call_cnt; i++) {
            subvol = conf->subvolumes[i];
-                if (!subvol || (subvol == dht_first_up_subvol (this)))
+                if (!subvol)
                    continue;
-                ret = syncop_setattr (subvol, &local->loc, &local->stbuf,
-                    (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
-                    NULL, NULL, NULL, NULL);
+                if (__is_root_gfid (local->stbuf.ia_gfid)) {
+                    ret = syncop_setattr (subvol, &local->loc, &local->stbuf,
+                        (GF_SET_ATTR_UID | GF_SET_ATTR_GID | GF_SET_ATTR_MODE),
+                        NULL, NULL, NULL, NULL);
+                } else {
+                    ret = syncop_setattr (subvol, &local->loc, &local->stbuf,
+                        (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
+                        NULL, NULL, NULL, NULL);
+                }
}
if (ret) {
    gf_uuid_unparse(local->loc.gfid, gfid);
}

1.7.1

1.50 glusterfs-fuse 3.8.4-54.15 :el7.centos

1.50.1 Available under license:

Solaris 10 uses WebNFS and not the MOUNT protocol. All permission checks for allowing/denying clients to mount are done through the MNT handlers. These handlers will not give out a filehandle to the NFS-client when mounting is denied. This prevents clients from successful mounting. However, over WebNFS a well known ‘root-filehandle’ is used directly with the NFSv3 protocol.

When WebNFS was used, no permission checks (the "nfs.export-dir" option) were applied. Now the WebNFS mount-handler in Gluster/NFS calls the mnt3_parse_dir_exports() function that takes care of the permission checking.

Cherry picked from commit e304f48fa262e5c5d9eb181f3f5e5dfb9c893108c:

> BUG: 1468291
> Change-Id: Ic9dfd092473ba9c1c7b5fa38401cf9c0aa8395bb
> Signed-off-by: Niels de Vos <ndevos@redhat.com>
> Reviewed-on: https://review.gluster.org/17718
> Smoke: Gluster Build System <jenkins@build.gluster.org>
> Reviewed-by: soumya k <skoduri@redhat.com>
> CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
> Reviewed-by: Kaleb KEITHLEY <kkeithle@redhat.com>

Change-Id: Ic9dfd092473ba9c1c7b5fa38401cf9c0aa8395bb
BUG: 1451224
Signed-off-by: Niels de Vos <ndevos@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/111770
Reviewed-by: Atin Mukherjee <amukherj@redhat.com>

---
xlators/nfs/server/src/mount3.c | 60 ++++++++++++++++++++-----------
xlators/nfs/server/src/mount3.h | 7 ++++
xlators/nfs/server/src/nfs-common.c | 25 ++++++++------
xlators/nfs/server/src/nfs3.c | 71 ++++++++++++++++++++-----------
diff --git a/xlators/nfs/server/src/mount3.c b/xlators/nfs/server/src/mount3.c
index b735038..a5b081b 100644
--- a/xlators/nfs/server/src/mount3.c
+++ b/xlators/nfs/server/src/mount3.c
@@ -945,7 +945,7 @@ err:

+__volume_subdir (char *dirpath, char **volname)
+mnt3_get_volume_subdir (char *dirpath, char **volname)
{
    char *subdir = NULL;
    int volname_len = 0;
@@ -1024,10 +1024,6 @@ mnt3_resolve_subdir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
                struct iatt *buf, dict_t *xattr,
                struct iatt *postparent);

-int
-mnt3_parse_dir_exports (rpcsvc_request_t *req, struct mount3_state *ms,
- char *subdir);
-
-int32_t
mnt3_readlink_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
    int32_t op_ret, int32_t op_errno, const char *path,
@@ -1310,7 +1306,8 @@ mnt3_readlink_cbk (call_frame_t *frame, void *cookie, xlator_t *this,

+        ret = mnt3_parse_dir_exports (mres->req, mres->mstate, real_loc,
+                                      _gf_true);
+    if (ret) {
+        gf_msg (GF_MNT, GF_LOG_ERROR, 0, NFS_MSG_RESOLVE_ERROR,
@@ -1518,7 +1515,8 @@ mnt3_verify_auth (struct sockaddr_in *client_addr, struct mnt3_export *export)

+        struct mnt3_export *exp, char *subdir,
+        gf_boolean_t send_reply)
{
    mnt3_resolve_t *mres = NULL;
    int ret = -EFAULT;
@@ -1542,6 +1540,10 @@ mnt3_resolve_subdir (rpcsvc_request_t *req, struct mount3_state *ms,
}

int
-mnt3_resolve_subdir (rpcsvc_request_t *req, struct mount3_state *ms,
- struct mnt3_export *exp, char *subdir)
+ struct mnt3_export *exp, char *subdir,
+ gf_boolean_t send_reply)
{
    mnt3_resolve_t *mres = NULL;
    int ret = -EFAULT;
@@ -1542,6 +1540,10 @@ mnt3_resolve_subdir (rpcsvc_request_t *req, struct mount3_state *ms,
}
+ /* no reply is needed (WebNFS permissions checking), just return */
+ if (!send_reply)
+     return 0; /* no error, mnt3_verify_auth() allowed it */
+
+ mres = GF_CALLOC (1, sizeof (mnt3_resolve_t), gf_nfs_mt_mnt3_resolve);
+ if (!mres) {
+     gf_msg (GF_MNT, GF_LOG_ERROR, ENOMEM, NFS_MSG_NO_MEMORY,
+             "Failed to allocate mnt3_resolve_t."
+             "Failed to allocate mnt3_resolve_t."
+         }
+ }

- volume_subdir = __volume_subdir (exp->expname, NULL);
+ volume_subdir = mnt3_get_volume_subdir (exp->expname, NULL);
if (!volume_subdir)
    goto err;

- ret = mnt3_resolve_subdir (req, ms, exp, volume_subdir);
+ ret = mnt3_resolve_subdir (req, ms, exp, volume_subdir, _gf_true);
if (ret < 0) {
    gf_msg (GF_MNT, GF_LOG_ERROR, ret, NFS_MSG_RESOLVE_SUBDIR_FAIL,
            "Failed to resolve export dir: %s", exp->expname);
}

@ @ -1687,7 +1689,7 @@ err:

    return ret;
}

static int
int
mnt3_check_client_net_tcp (rpcsvc_request_t *req, char *volname)
{
    rpcsvc_t                *svc = NULL;
    @ @ -1761,25 +1763,41 @@ err:

    int
int
mnt3_parse_dir_exports (rpcsvc_request_t *req, struct mount3_state *ms,
    - char *subdir)
+ char *path, gf_boolean_t send_reply)
{
    char                    volname[1024] = {0, };
    struct mnt3_export      *exp = NULL;
    char                    *volname_ptr = NULL;
+ char                    *subdir = NULL;
    int                     ret = -ENOENT;
    struct nfs_state       *nfs = NULL;

    - if (!ms || !subdir)
+ if (!ms || !path)
return -1;

volname_ptr = volname;
-  subdir = __volume_subdir (subdir, &volname_ptr);
-  if (!subdir)
+  subdir = mnt3_get_volume_subdir (path, &volname_ptr);
+  if (!subdir) {
+      gf_msg_trace (GF_MNT, 0, "Could not parse volname/subdir from "
+                    "%s", path);
+      goto err;
+  }
+  }
-  exp = mnt3_mntpath_to_export (ms, volname, _gf_false);
-  if (!exp)
-      goto err;
+  /* first try to match the full export/subdir */
+  exp = mnt3_mntpath_to_export (ms, path, _gf_false);
+  if (!exp) {
+      gf_msg_trace (GF_MNT, 0, "Could not find exact matching export "
+                    "for path=%s", path);
+      /* if no exact match is found, look for a fallback */
+      exp = mnt3_mntpath_to_export (ms, volname, _gf_true);
+      if (!exp) {
+          gf_msg_trace (GF_MNT, 0, "Could not find export for "
+                       "volume %s", volname);
+          goto err;
+      }
+  }
+  gf_msg_trace (GF_MNT, 0, "volume %s and export %s will be used for "
+                 "path %s", exp->vol->name, exp->expname, path);

nfs = (struct nfs_state *)ms->nfsx->private;
if (!nfs)
@@ -1798,7 +1816,7 @@ mnt3_parse_dir_exports (rpcsvc_request_t *req, struct mount3_state *ms,
 goto err;
 }
-  ret = mnt3_resolve_subdir (req, ms, exp, subdir);
+  ret = mnt3_resolve_subdir (req, ms, exp, subdir, send_reply);
  if (ret < 0) {
      gf_msg (GF_MNT, GF_LOG_ERROR, ret, NFS_MSG_RESOLVE_SUBDIR_FAIL,
                "Failed to resolve export dir: %s", subdir);
@@ -1841,7 +1859,7 @@ mnt3_find_export (rpcsvc_request_t *req, char *path, struct mnt3_export **e)
 goto err;
 }
-  ret = mnt3_parse_dir_exports (req, ms, path);
+  ret = mnt3_parse_dir_exports (req, ms, path, _gf_true);
err:
return ret;
@@ -2914,7 +2932,7 @@ nfs3_rootfh (struct svc_req *req, xlator_t *nfsx,
 * 3. If a subdir is exported using nfs.export-dir,
 * then the mount type would be MNT3_EXPTYPE_DIR,
 * so make sure to find the proper path to be
- * resolved using __volume_subdir()
+ * resolved using mnt3_get_volume_subdir()
 * 3. Make sure subdir export is allowed.
 */
ms = __mnt3udp_get_mstate(nfsx);
@@ -2937,7 +2955,7 @@ nfs3_rootfh (struct svc_req *req, xlator_t *nfsx,
 return NULL;
 }
- path = __volume_subdir (path, &volptr);
+ path = mnt3_get_volume_subdir (path, &volptr);
 if (exp == NULL)
     exp = mnt3_mntpath_to_export (ms , volname , _gf_false);
 }
diff --git a/xlators/nfs/server/src/mount3.h b/xlators/nfs/server/src/mount3.h
index ce01a6c..8868aec 100644
--- a/xlators/nfs/server/src/mount3.h
+++ b/xlators/nfs/server/src/mount3.h
@@ -178,4 +178,11 @@ struct mount3_resolve_state {
 typedef struct mount3_resolve_state mnt3_resolve_t;

 +int
+mnt3_parse_dir_exports (rpcsvc_request_t *req, struct mount3_state *ms,
+ char *subdir, gf_boolean_t send_reply);
+
+char*
+mnt3_get_volume_subdir (char *path, char **volname);
+
#endif
diff --git a/xlators/nfs/server/src/nfs-common.c b/xlators/nfs/server/src/nfs-common.c
index 5269188..2f742d4 100644
--- a/xlators/nfs/server/src/nfs-common.c
+++ b/xlators/nfs/server/src/nfs-common.c
@@ -73,8 +73,8 @@ nfs_xlator_to_xlid (xlator_list_t *cl, xlator_t *xl)
 xlator_t *
 nfs_mntpath_to_xlator (xlator_list_t *cl, char *path)
 }
- char *volname = NULL;
- char *volptr = NULL;
+ char *volname = NULL; /* volume name only */
+ char  *volptr = NULL; /* ptr to original volname */
size_t pathlen = -1;
xlator_t *targetxl = NULL;
int i = 0;
@@ -82,14 +82,16 @@ nfs_mntpath_to_xlator (xlator_list_t *cl, char *path)
    if ((!cl) || (!path))
        return NULL;
+
    volname = volptr = gf_strdup (path);
    if (!volname)
        return NULL;
+
    if (volname[0] == '/')
        pathlen = strlen (volname);
    gf_msg_trace (GF_NFS, 0, "Subvolume search: %s", path);
+
    volname = volptr = gf_strdup (path);
    if (!volname)
        return NULL;
+
    if (volname[0] == '?')
        volptr = &volname[1];
    else
        volptr = &volname[0];
    volname++;

    pathlen = strlen (volname);
    for (i = 0; i < pathlen; i++) {
        if (volname[i] == '?') {
            volname[i] = '0';
        }
    }
@@ -98,10 +100,10 @@ nfs_mntpath_to_xlator (xlator_list_t *cl, char *path)
    }

    while (cl) {
        gf_msg_trace (GF_NFS, 0, "Volptr: %s and cl->xlator->name: %s",
                     volptr, cl->xlator->name);
        if (strcmp (volptr, cl->xlator->name) == 0) {
            targetxl = cl->xlator;
            break;
        }
    }
@@ -109,8 +111,9 @@ nfs_mntpath_to_xlator (xlator_list_t *cl, char *path)
    cl = cl->next;
    }

-    return targetxl;
+    GF_FREE (volptr);
+
+    return targetxl;


diff --git a/xlators/nfs/server/src/nfs3.c b/xlators/nfs/server/src/nfs3.c
index bb68bc1..7443dbc 100644
--- a/xlators/nfs/server/src/nfs3.c
+++ b/xlators/nfs/server/src/nfs3.c
@@ -349,44 +349,51 @@ out:

-static enum nfsstat3
-static enum nfsstat3
-\n-nfs3_funse_webnfs_zerolen_fh (struct nfs3_state *nfs3st, struct nfs3_fh *fhd,
-             char *name)
+static int
+nfs3_funse_webnfs_zerolen_fh (rpcsvc_request_t *req, struct nfs3_state *nfs3st,
+                struct nfs3_fh *fhd, char *name)
{
-        xlator_t        *fungexl  = NULL;
-        glfs_t          *fs       = NULL;
-        loc_t            loc      = { 0, 1};
-        enum nfsstat3    nfsstat  = NFS3ERR_SERVERFAULT;
-        int              ret      = -1;
-        size_t           namelen  = -1;
-        xlator_t        *fungexl  = NULL;
-        struct nfs_state   *nfs       = NULL;
-        glfs_t          *fs       = NULL;
-        loc_t            loc      = { 0, 1};
-        int              ret      = -1;
+        xlator_t        *fungexl  = NULL;
+        struct nfs_state   *nfs       = NULL;
+        glfs_t          *fs       = NULL;
+        loc_t            loc      = { 0, 1};
+        int              ret      = -1;
+        char               *subdir    = NULL;
+        char                volname[NAME_MAX] = { 0, 1};

-fungexl = nfs_mntpath_to_xlator (nfs3st->exportslist, name);
+fungexl = nfs_mntpath_to_xlator (nfs3st->exportslist, name);
if (!fungexl) {
-            nfsstat = NFS3ERR_NOENT;
-            gf_msg_trace (GF_NFS3, 0, "failed to find xlator for volume");
+            gf_msg_trace (GF_NFS3, -ret, "mounting not possible");
+            goto out;
+        } /* fungexl is valid, set for nfs3_request_xlator_deviceid() */
+        rpcsvc_request_set_private (req, fungexl);
+
+        /* Permission checks are done through mnt3_parse_dir_exports(). The
+        * "nfs.export-dir" option gets checked as well. */
+        nfs = nfs_state (nfs3st->nfsx);
+        ret = mnt3_parse_dir_exports (req, nfs->mstate, name, _gf_false);
+        if (ret) {
+            gf_msg_trace (GF_NFS3, -ret, "mounting not possible");
            goto out;
+        }


goto out;
}

/* glfs_resolve_at copied from UDP MNT support */
fs = glfs_new_from_ctx (fungexl->ctx);
if (!fs) {
    -    nfsstat = NFS3ERR_NOENT;
+    gf_msg_trace (GF_NFS3, 0, "failed to create glfs instance");
+    ret = -ENOENT;
    goto out;
}

-    /* strip volname/ from 'name' */
-    namelen = strlen(name);
-    while (namelen != 0) {
-        name++;
-        if (name[0] == '/') {
-            break;
-        }
-    }
-    namelen--;
- }
-    gf_msg_debug (GF_NFS, 0, "NAME :%s ", name);
+    /* split name "volname/sub/dir/s" into pieces */
+    subdir = mnt3_get_volume_subdir (name, (char**) &volname);

    ret = glfs_resolve_at (fs, fungexl, NULL, name, &loc, NULL, 1, 0);
+    ret = glfs_resolve_at (fs, fungexl, NULL, subdir, &loc, NULL, 1, 0);
    if (ret != 0) {
        -    nfsstat = NFS3ERR_NOENT;
+    gf_msg_trace (GF_NFS3, 0, "failed to resolve %s", subdir);
+    ret = -ENOENT;
        goto out;
    }

@@ -399,17 +406,17 @@ nfs3_funge_webnfs_zerolen_fh (struct nfs3_state *nfs3st, struct nfs3_fh *fhd,

else {
    if (__nfs3_get_volume_id (nfs3st, fungexl, fhd->exportid) < 0) {
        -    nfsstat = NFS3ERR_STALE;
+    ret = -ESTALE;
        goto out;
    }
}

-    nfsstat = NFS3_OK;
+    ret = 0;

out:
    if (fs)
GLFS_FREE_FROM_CTX(fs);

    -        return nfsstat;
+        return ret;
    }

@@ -470,8 +477,10 @@ nfs3_solaris_zerolen_fh (struct nfs3_fh *fh, int fhlen)
    if (nfs3_fh_validate (fh))
        return 0;

    -        if (fhlen == 0)
+        if (fhlen == 0) {
+            gf_msg_trace (GF_NFS3, 0, "received WebNFS request");
+            return 1;
+        }

    return 0;
}
@@ -1544,8 +1553,8 @@ nfs3_lookup (rpcsvc_request_t *req, struct nfs3_fh *fh, int fhlen, char *name)
    name);
    nfs3_validate_nfs3_state (req, nfs3, stat, nfs3err, ret);
    if (nfs3_solaris_zerolen_fh (fh, fhlen)) {
-        stat = nfs3_funge_webnfs_zerolen_fh (nfs3, fh, name);
-        if (stat != NFS3_OK)
+        ret = nfs3_funge_webnfs_zerolen_fh (req, nfs3, fh, name);
+        if (ret < 0)
            goto nfs3err;

        /* this fh means we're doing a mount, name is no more useful */

@@ -1564,12 +1573,12 @@ nfs3_lookup (rpcsvc_request_t *req, struct nfs3_fh *fh, int fhlen, char *name)
    if (ret < 0) {
        gf_msg (GF_NFS, GF_LOG_ERROR, -ret,
                NFS3_MSG_HARD_RESOLVE_FAIL,
-            "failed to start hard resolve");
-        stat = nfs3_errno_to_nfsstat3 (-ret);
+            "failed to start hard resolve");
+        stat = nfs3_errno_to_nfsstat3 (-ret);
    }

nfs3err:
    if (ret < 0) {
+        stat = nfs3_errno_to_nfsstat3 (-ret);
+        nfs3_log_common_res (rpcsvc_request_xid (req),
+                             NFS3_LOOKUP, stat, -ret,
+                             cs ? cs->resolvedloc.path : NULL);
--
1.8.3.1
Currently IATT_UPDATE_FLAGS is (UP_NLINK | UP_MODE | UP_OWN | UP_SIZE | UP_TIMES | UP_ATIME). But it should also have UP_PERM and permission bits are apart of IATT.

This change will have no effect on the existing users as IATT_UPDATE_FLAGS is currently used only by md-cache. And the changes in md-cache to consume cache invalidation is not part of any release yet.

Change-Id: I7efad44972add152f5f981d733fb8191dc7ef8ef
BUG: 1284873
Signed-off-by: Poornima G <pgurusid@redhat.com>
Reviewed-on: http://review.gluster.org/15301
NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
Smoke: Gluster Build System <jenkins@build.gluster.org>
Reviewed-by: Raghavendra G <rgowdapp@redhat.com>
Reviewed-by: Prashanth Pai <ppai@redhat.com>
Reviewed-by: Jeff Darcy <jdarcy@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/87039
Reviewed-by: Rajesh Joseph <rjoseph@redhat.com>
Tested-by: Rajesh Joseph <rjoseph@redhat.com>

```diff
--- a/libglusterfs/src/upcall-utils.h
+++ b/libglusterfs/src/upcall-utils.h
@@ -53,7 +53,7 @@
 #define UP_NLINK_FLAGS          (UP_NLINK | UP_TIMES)
 #define IATT_UPDATE_FLAGS       (UP_NLINK | UP_MODE | UP_OWN | UP_SIZE |
 -                                 UP_TIMES | UP_ATIME)
+                                 UP_TIMES | UP_ATIME | UP_PERM)

typedef enum {
    GF_UPCALL_EVENT_NULL,
```

Post add-brick event the new brick will have permission of 755 by default. If the root directory permission was other than 755, that does not get healed to the new brick leading to permission errors/inconsistencies.

For choosing source of attr heal we can trust the subvols which have layouts with latest ctime (as part of missing directory heal, we heal the proper attr). In case none of the subvols have layout, return ESTALE to retrigger a fresh lookup.

Note: This patch heals the permission of the root directories only. Since, permission healing of directory is not straight forward and required intrusive fix, those are not addressed here.

> Reviewed-on: http://review.gluster.org/15195
> Smoke: Gluster Build System <jenkins@build.gluster.org>
> CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
> NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
> Reviewed-by: Raghavendra G <rgowdapp@redhat.com>

> Reviewed-on: http://review.gluster.org/15465
> Smoke: Gluster Build System <jenkins@build.gluster.org>
> NetBSD-regression: NetBSD Build System <jenkins@build.gluster.org>
> CentOS-regression: Gluster Build System <jenkins@build.gluster.org>
> Reviewed-by: Raghavendra G <rgowdapp@redhat.com>

Change-Id: If894e3895d070d46b62d2452e52c1eaafcf56c29
BUG: 1294035
Signed-off-by: Susant Palai <spalai@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/84877
Reviewed-by: Atin Mukherjee <amukherj@redhat.com>
Tested-by: Atin Mukherjee <amukherj@redhat.com>

---
tests/bugs/distribute/bug-1368012.t | 50 ++++++++++++++++++++++++++++++++
xlators/cluster/dht/src/dht-common.c | 32 ++++++++++++++++++++++++
xlators/cluster/dht/src/dht-selfheal.c | 16 ++++++++---
3 files changed, 93 insertions(+), 5 deletions(-)
create mode 100644 tests/bugs/distribute/bug-1368012.t
diff --git a/tests/bugs/distribute/bug-1368012.t b/tests/bugs/distribute/bug-1368012.t
new file mode 100644
index 0000000..f89314b
--- /dev/null
+++ b/tests/bugs/distribute/bug-1368012.t
@@ -0,0 +1,50 @@
+##/bin/bash
+ $(dirname $0)/../include.rc
+ $(dirname $0)/../volume.rc
+
+ cleanup;
+
+ function get_permission {
+ stat -c "%A" $1
+
+
+## Start glusterd
+TEST glusterd;
+TEST pidof glusterd;
+TEST SCLI volume info;
+
+## Lets create volume
+TEST SCLI volume create $V0 $H0:/${V0}{1,2};
+
+## Verify volume is created
+EXPECT "$V0" volinfo_field $V0 'Volume Name';
+EXPECT 'Created' volinfo_field $V0 'Status';
+
+## Start volume and verify
+TEST SCLI volume start $V0;
+TEST SCLI volume set $V0 performance.stat-prefetch off
+EXPECT 'Started' volinfo_field $V0 'Status';
+TEST glusterfs -s $H0 --volfile-id=$V0 $M0
+
+## Test case: Add-brick
+------------------------------------------------------------
+##change permission of both root
+TEST chmod 444 $M0
+
+##store permission for comparision
+TEST permission_root=`stat -c "%A" $M0`
+TEST echo $permission_root
+
+## Add-brick
+TEST SCLI volume add-brick $V0 $H0:/${V0}3
+
+## Allow one lookup to happen
+TEST pushd $M0
+TEST ls
+
+## Generate another lookup
+echo 3 > /proc/sys/vm/drop_caches
+TEST ls
+
+## Check root permission
+EXPECT_WITHIN "5" $permission_root get_permission $M0
+
+## Check permission on the new-brick
+EXPECT $permission_root get_permission /${V0}3
diff --git a/xlators/cluster/dht/src/dht-common.c b/xlators/cluster/dht/src/dht-common.c
index 5fd0a16..2eb44a1 100644
--- a/xlators/cluster/dht/src/dht-common.c
+++ b/xlators/cluster/dht/src/dht-common.c
@@ -735,6 +735,27 @@ out:
         return ret;
 }

+int static
+is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2)
+{
+    if ((prot1->owner.read != prot2->owner.read) ||
+        (prot1->owner.write != prot2->owner.write) ||
+        (prot1->owner.exec != prot2->owner.exec) ||
+        (prot1->group.read != prot2->group.read) ||
+        (prot1->group.write != prot2->group.write) ||
+        (prot1->group.exec != prot2->group.exec) ||
+        (prot1->other.read != prot2->other.read) ||
+        (prot1->other.write != prot2->other.write) ||
+        (prot1->other.exec != prot2->other.exec) ||
+        (prot1->suid != prot2->suid) ||
+        (prot1->sgid != prot2->sgid) ||
+        (prot1->sticky != prot2->sticky)) {
+        return 1;
+    } else {
+        return 0;
+    }
+}
+
int
dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
    int op_ret, int op_errno,
@@ -856,14 +877,21 @@ dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
                        local->stbuf.ia_ctime_nsec,
                        stbuf->ia_ctime,
                        stbuf->ia_ctime_nsec)) {
+    /* Choose source */
    local->prebuf.ia_gid = stbuf->ia_gid;
    local->prebuf.ia_uid = stbuf->ia_uid;
+
    if (__is_root_gfid (stbuf->ia_gfid))
    local->prebuf.ia_prot = stbuf->ia_prot;
}
}
if (local->stbuf.ia_type != IA_INVAL) {
    if ((local->stbuf.ia_gid != stbuf->ia_gid) ||
- (local->stbuf.ia_uid != stbuf->ia_uid)) { 
+ (local->stbuf.ia_uid != stbuf->ia_uid) || 
+ __is_root_gfid (stbuf->ia_gfid) && 
+ is_permission_different (&local->stbuf.ia_prot, 
+ &stbuf->ia_prot))) { 
+ local->need_selfheal = 1; 
} 
}
@@ -928,6 +956,8 @@ out:
    gf_uuid_copy (local->gfid, local->stbuf.ia_gfid);
    local->stbuf.ia_gid = local->prebuf.ia_gid;
    local->stbuf.ia_uid = local->prebuf.ia_uid;
+ if (__is_root_gfid(local->stbuf.ia_gfid)) { 
+ local->stbuf.ia_prot = local->prebuf.ia_prot;
+ copy = create_frame (this, this->ctx->pool);
+ if (copy) { 
+     copy_local = dht_local_init (copy, &local->loc;
+ ...
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Version 2, June 1991

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* Software Development Group
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   =============  
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

/*

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/************************************************************************
* NCSA HTTPd Server
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* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
************************************************************************/
md5.c: NCSA HTTPd code which uses the md5c.c RSA Code

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

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<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet" type="text/css" href="./style/css/prettify.css" />
<script src="./style/scripts/prettify.js" type="text/javascript"></script>
</head>
<body id="manual-page" class="no-sidebar">
<div id="page-header">
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="./"><img title="<" alt="<" src="./images/left.gif" /></a></div>
<div id="path">

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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1.61 java-1.8.0-openjdk-headless 1.8.0.181-3.b13 :el7_5

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888   8  8888oo88P' `8888'
888   8  888  .8PY888.
`8.   .8`888   d8` `888b
 `YbodP o888o  o888o o88888o
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1.68 java-1.8.0-openjdk_GPLv3 1.8.0.191.b12-1 :el7_6

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Jan Holmberg, <jan@artech.net>:
- Memory framework
- HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
- MISC checker redesign
- Scheduler framework extension to support child process handling.
- Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
- Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
- Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at Iwt.eu>:
- Extended VRRP framework to support floating priority.

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o Memory framework
o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
o MISC checker redesign
o Scheduler framework extension to support
  child process handling.
o Daemon framework extension to block SIGCHLD
  to only receive it when its unblocked in the
  scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
o Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
o Added dont_track_primary, nopreempt,
  preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
o Fixed shadowed declaration reported by -Wshadow.
o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com>:
o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu>:
o Extended VRRP framework to support floating
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Jan Holmberg, <jan@artech.net>:
- Memory framework
- HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
- MISC checker redesign
- Scheduler framework extension to support child process handling.
- Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
- Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
- Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu>:
- Extended VRRP framework to support floating priority.

1.73 keyutils 1.5.8 :3.el7

1.73.1 Available under license:

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Appendix: How to Apply These Terms to Your New Programs

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

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

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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1.74 keyutils_tools-GPLv2 1.5.8 :3.el7
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<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
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You should also get your employer (if you work as a programmer) or your
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necessary. Here is a sample; alter the names:

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

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

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1.75 krb5 1.15.1-34 :el7

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#
# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*- ' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'^ *([^ ]*)( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
if not in_comment:
    line = re.sub(r'//.*?\n', '', line)
    line = line.strip()

if not in_comment and '//' in line:
    (line, sep, comment_part) = line.partition('//')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('//').lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())

is_license = check_comment(comment, fname, comment_starts_at,
                            code_seen, nonlicense_seen)
nonlicense_seen = nonlicense_seen or not is_license
in_comment = False
elif line.strip() != '':
    code_seen = True
    ln += 1

for fname in sys.argv[1:] :
    if fname.startswith('./'): 
        fname = fname[2:] 
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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 cmd/krb5/iprop/iprop_hdr.h
 cmd/krb5/kadmin/server/ipropd_svc.c
 cmd/krb5/kproplog/kproplog.c
 cmd/krb5/slave/kpropd_rpc.c
 lib/gss_mechs/mech_krb5/et/kdb5_err.c
 lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
 lib/gss_mechs/mech_spnego/mech/spnego_mech.c
 lib/krb5/kadm5/kadm_host_srv_names.c
 lib/krb5/kdb/kdb_convert.c
 lib/krb5/kdb/kdb_hdr.h
 lib/krb5/kdb/kdb_log.c
 lib/krb5/kdb/kdb_log.h
 lib/libgss/g_accept_sec_context.c
 lib/libgss/g_acquire_cred.c
 lib/libgss/g_canon_name.c
 lib/libgss/g_compare_name.c
 lib/libgss/g_context_time.c
 lib/libgss/g_delete_sec_context.c
 lib/libgss/g_dsp_name.c
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 lib/libgss/g_dup_name.c
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 lib/libgss/g_export_name.c
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 lib/libgss/g_imp_name.c
 lib/libgss/g_imp_sec_context.c
 lib/libgss/g_init_sec_context.c
 lib/libgss/g_initialize.c
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 lib/libgss/g_inquire_cred.c
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lib/gssapi/mechglue/g_acquire_cred
lib/gssapi/mechglue/g_canon_name
lib/gssapi/mechglue/g_compare_name
lib/gssapi/mechglue/g_context_time
lib/gssapi/mechglue/g_delete_sec_context
lib/gssapi/mechglue/g_dsp_name
lib/gssapi/mechglue/g_dsp_status
lib/gssapi/mechglue/g_dup_name
lib/gssapi/mechglue/g_exp_sec_context
lib/gssapi/mechglue/g_export_name
lib/gssapi/mechglue/g_glue
lib/gssapi/mechglue/g_imp_name
lib/gssapi/mechglue/g_exp_sec_context
lib/gssapi/mechglue/g_export_name
lib/gssapi/mechglue/g_glue
lib/gssapi/mechglue/g_imp_name

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and the initial implementation of incremental propagation, including
the following new or changed files:

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/net
```

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
    slave/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego Mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplcg.c

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1.76 krb5 1.15.1-8 :el7

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import os
import sys
import re

def warn(fname, ln, msg):
    print '{:s}: {:d}: {:s}'.format(fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*- and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
m = re.match(r'/\* ([^ \]*)( - .*)? */', lines[ln])
if m:
    if m.group(1) != fname:
        warn(fname, ln, 'Wrong filename in comment')
    ln += 1

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
    line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                               code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    elif line.strip() != '':
        code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./ '):
        fname = fname[2:]  
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
```
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
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lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in

```
lib/gssapi/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
```
and the initial implementation of incremental propagation, including the following new or changed files:

```python
include/class/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/class/iprop.x
lib/kdb/class/kdb_convert.c
lib/kdb/class/kdb_log.c
lib/gssapi/class/spnego_mech.c
```

</pre></div></div>

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```python
include/class/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/class/iprop.x
lib/kdb/class/kdb_convert.c
lib/kdb/class/kdb_log.c
lib/gssapi/class/spnego_mech.c
```
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   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
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```
.. parsed-literal::

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   kadmin/server/ipropd_svc.c
   lib/kdb/prop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/prop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.83 libnfsidmap 0.25-19 :el7

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Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code

Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimtools/cmsutil.c. Therefore:

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Version 1.1

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Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
Category: Informational  M. Bellare
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February 1997

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

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

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

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

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

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

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

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

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

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

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

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

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.112 origin 3.7.2-1 :el7.git.0.cd74924

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

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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

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* cvt - IEEE floating point formatting routines.
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1.113 patch 2.7.1 :10.el7_5

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1.121 python-docker-py 1.10.6-7 :el7
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1.122 python-enum34 1.0.4 :1.el7

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1.123 python-httplib2 0.9.2-0.1 :el7

1.124 python-httplib2 0.9.2-1 :el7

1.125 python-ipaddress 1.0.16 :2.el7

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1.127 python-jmespath 0.9.0 :3.el7
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1.129 python-pysocks 1.6.8-5 :el7

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1.130 python-repoze-lru 0.4-3.el7

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1.131 python-texttable 1.4.0-1 :el7

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1.132 python-websocket-client 0.32.0 :116.el7

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1.134 python2-cached_property 1.3.0-7 :el7

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1.135 python2-crypto 2.6.1-13 :el7

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Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
    preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD982FC7D9E3838D9179F1C11B877E7804B45 (2008);
    preference=sigencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
X-DNSBL: 0
-----BEGIN PGP SIGNED MESSAGE-----

# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
#     dlitz@dlitz.net
# requested that this message be sent to:-
#     crypt@bis.doc.gov
#     enc@nsa.gov
#     web_site@bis.doc.gov
#     pycrypto@lists.dlitz.net
#     PYTHON-CRYPTO@NIC.SURFNET.NL
#     dlitz@dlitz.net
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
# For information about the Stamper service see
#     http://www.itconsult.co.uk/stamper.htm
#

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in
Canada. I am not certain whether PyCrypto contains enough US-origin
 cryptography to be covered by U.S. export controls, but I am submitting
this anyway.
(Sorry for spamming the lists, but I want there to be a record of this.)

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

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=3oIX
-----END PGP SIGNATURE-----

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.

Open Source Used In OpenShift Origin 3.7.2

3289
Open Source Used In Openshift Origin 3.7.2

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<th>Owner</th>
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</table>

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

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

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From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1;
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it’s=20
GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20
The text in the current LICENSE file (quoted below) is not entirely clear=20
on the point of whether distributing modified versions is allowed. (It=20
says "distribute and use", but not "modify").

Distribute and use freely; there are no restrictions on further
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country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back
(though that would be nice).

For the next PyCrypto release, I'd like to take steps to move toward a=20
clearer licensing regime. I'm asking as many copyright holders as I can=20
find, starting with you, if I can release PyCrypto under something clearer=20
and more standard. Below, I have quoted a public domain dedication that=20
was recommended in _Intellectual Property and Open Source: A Practical=

May I, on your behalf, dedicate to the public domain your considerable 20 contributions to PyCrypto, with the following notice?

```plaintext
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
```

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

```
-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFakko52IACgkQH8B4d+eAS0XPPQCfcyQ2DdAXk9N7Z+jeSFFD5EZ
yloAn33a3ZjkteyJaTbzEqImOEW8JGPf=aBEW
-----END PGP SIGNATURE-----
```

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk

From dlitz@dlitz.net Sat Apr 18 09:14:20 2009
Date: Sat, 18 Apr 2009 09:14:20 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Mark Moraes <moraes@computer.org>
Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 5D9AEF984FDD
    for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
    for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
    Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
    Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
        by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
    for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
    Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
    DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;
bh=OvxqbYnCg7R6tUN3YmlgFURM3CuHhlJeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
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    2aU=
    DomainKey-Signature:a=rsa-sha1; q=dns; c=nofws;
    s=s1024; d=yahoo.com;
    h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=rf6SHhFF5VxQLqg+9tc11xKuo4Rs4IVvxF6fdqOrPrMyRcxEoobhuTE35grGqomOJLwM0+mnZwRb6rGkJd
    763caOAl08Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3U1wrUSGfX7fhEWml9P/HBzxJ9Wp4b3j
    eo=;
    Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
FrK8aWMVM1mFItLpMGBuBCL1bUQC.i.JkIAKUHFSFsFn79PbtewAewXJ2uhZGCOlGCX6oVnG3u.CgqzAffY
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
> The text in the current LICENSE file (quoted below) is not
> entirely clear
> on the point of whether distributing modified versions is
> allowed. (It
> says "distribute and use", but not "modify".)
>
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting_ Code_ by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1
1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)
On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:
>
>Hi Dwayne.
>
>Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
>
>Regards,
>Mark.
>
>--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
>
>> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
>> Subject: PyCrypto license clarification
>> To: "Mark Moraes" <moraes@computer.org>
>> Date: Saturday, April 18, 2009, 9:14 AM
>> Hi Mark,
>>
>> I am the new maintainer of the Python Cryptography Toolkit,
>> and I am
>> working on a new release at http://www.pycrypto.org/.
>>
>> People often ask me what license PyCrypto is covered by, if
>> it's
>> GPL-compatible, etc. Right now, I'm not really sure
>> what to tell them.
>> The text in the current LICENSE file (quoted below) is not
>> entirely clear
>> on the point of whether distributing modified versions is
>> allowed. (It
>> says "distribute and use", but not "modify".)
>>
>>
>> ==----------------------------------------------------------------------
>>
>> Distribute and use freely; there are
>> no restrictions on further
>> dissemination and usage except those
>> imposed by the laws of your
>> country of residence. This
>> software is provided "as is" without
>> warranty of fitness for use or
>> suitability for any purpose, express
>> or implied. Use at your own risk or
>> not at all.
>>
>> ==----------------------------------------------------------------------


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(www.amk.ca)

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---
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
> 
> May I, on your behalf, dedicate to the public domain all your
> contributions to PyCrypto, with the following notice?
> 
> The contents of this file are dedicated to the public domain. To
> the extent that dedication to the public domain is not available,
> everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive
> license
> to exercise all rights associated with the contents of this file
> for
Robey,

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQDkKvyJ6cOLvQCFmYYuV0DVvIllyLg0hgCI9La0bQ
SH8AoLJgaq1li71ZYDc+/Cd8VO0xLbr
=My6g
-----END PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On November 23, 2008, you wrote:
> Hi Wim,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
> 
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear opensourcish license, distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)
iQCVAwUBSsnAl8UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FektbDOzkxcg5580MGGeExVMv8aw+1BHg0YD85gsntIDzkcQtb+BR/xAvI5zKyA
J/Mn/I+6ekJQ3juh8IPHLAduOXM9Rtgus/8r+Daqa0xOPKoBx+/5t1ILJtBcZ
wrPEa9Oui9s=
=zSY9
-----END PGP SIGNATURE-----

From dlitz@dlitz.net Mon May 4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

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

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back
(though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May 5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
for <dwon@rivest.dlitz.net>; 5 May 2009 03:08:32 -0600 (CST)
Received: (vmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600 (CST)
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="joris@bontje.nl"; helo=smt6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

```
=======================================================================
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=======================================================================
```

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> Hi Joris,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
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> ==---------------------------------------------------------------------
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> 
> ==--amk (www.amk.ca)
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> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

> Hi Dwayne,
>
> Thanks for taking over the PyCrypto library and putting in the required
effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
for Google AppsEngine!
>
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> any purpose whatsoever. No rights are reserved.

> Regards,

> Joris

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> >> Hi Joris,

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> >> have all approved the following dedication for their contributions.
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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
> blic
> domain all your contributions to PyCrypto, with the following notice?
>
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> =C2=A0The contents of this file are dedicated to the public domain. =C2=
> =A0To the
> =C2=A0extent that dedication to the public domain is not available, every=
> one
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
> nse
> =C2=A0to exercise all rights associated with the contents of this file fo=
> r
> =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.

Yes, that's fine. Good luck with the new release!

-p
--20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin

From dlitz@dlitz.net Mon Aug  3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>
>> I am the new maintainer of the Python Cryptography Toolkit, and I am
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>
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>
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>> extent that dedication to the public domain is not available, everyone
>> is granted a worldwide, perpetual, royalty-free, non-exclusive license
>> to exercise all rights associated with the contents of this file for
>> any purpose whatsoever. No rights are reserved.
>>==================================================================
>
>> Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
   by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
   for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
   Received: from localhost (localhost [127.0.0.1])
     by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
   for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
   Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
   Delivered-To: m-dlitz-dlitz@dlitz.net
   Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
   by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
   for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)
   Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
   by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
   for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important Python library.

> I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJhnEjvBpnXfVAQLZjgP/ccG+JdZwNvPJRTsaf6rhY6+MHLDHI6agk
evJnSJQAcVHIzvIVeR51XgvDUMakZjU4SOV7MqkhsKA9Ilet7PaD9VSYgn3ra5
gElw2IDQD0oY5GEEXMm74qrrb1PCCbCRmpaYN0o+DZohwHkeFBbwDRA3wlOtOrH7
SK4w9VBJtY=3D
=3DQduY
-----END PGP SIGNATURE-----
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,
Open Source Used In Openshift Origin 3.7.2

- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id [127.0.0.1])
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)
by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so125233rvb.26
for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references:
date:message-id:subject:from:to:content-type;
bh=YWy9U32WCU/ksRqukHwaOzyQjQBu4Yvt5ml20U6mI/g=;
b=0MJj2lIXYjKGeze2zNJW3riUi9LqFXmey5Wp0pLtufNF+X3duyfhopTuBAKw7MwVY
B5E6VQuGVwyzBhsneyVg6DhQitouCZymsViobumuDmKn5DtuK0xpDK0xCxQmHYaas
L9/A6D3/J66kKrNBGx9mc0GPcZTViVFYkPR0Q=
DomainKey-Signature: a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:date:message-id:subject:from:to:
c:content-type;
b=Ym7CSnU4EjIyKx3J1jyWZkZmJAI1nTcwCG6akBHAXLd8ht6PFcmlsffzZG8hJC1VJ8
vljqcT+G6cywVTBw1pyGX7ECYzr0+vhdVgdpACGrss24zikHfpSSd5GFogzXaLVvGVH8p
bqfHpwKk0fEP4gAQkiNe1q5GNtrR2j8U3fnRyg=
MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
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> People often ask me what license PyCrypto is covered by, if it's
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> ==============================================================
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> 
> Regards,
> - Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

-- 000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I don't think the public domain license fits or PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

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Regards,

- Dwayne

Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>

---000e0cd209d0e5a3d40464a23054--

00INDEX This file LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit LICENSE.libtom LICENSE file from LibTomCrypt stmts/ Statements by contributors PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

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By making a contribution to this project, I certify that:

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In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

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```== EOF ==
00INDEX                 - This file
tsu-notify.mbox         - Notification sent per U.S. export regulations
copy/                   - Copyright info & public-domain dedications

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that
To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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1.136 python2-dockerpty 0.4.1-9 :el7
1.136.1 Available under license :

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1.137 python2-docopt 0.6.2-7 :el7

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1.138 python2-jmespath 0.9.0-5 :el7

1.138.1 Available under license:

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1.139 python2-jsonschema 2.5.1-3 :el7

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1.140 python2-passlib 1.6.5-1 :el7

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

Passlib contains some code derived from the following sources:

MD5-Crypt
---------
The source file ``passlib/handlers/md5_crypt.py`` contains code derived from the original
`FreeBSD md5-crypt implementation`_, which is available under the following license::

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this stuff is worth it, you can buy me a beer in return.  Poul-Henning Kamp

converted to python May 2008
by Eli Collins

DES
---
The source file ``passlib/utils/des.py`` contains code derived from
`UnixCrypt.java`_, a pure-java implementation of the historic unix-crypt password hash algorithm.
It is available under the following license::

UnixCrypt.java 0.9 96/11/25
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modified April 2001
by Iris Van den Broeke, Daniel Deville

modified Aug 2005
by Greg Wilkins (gregw)

converted to python Jun 2009
by Eli Collins

jBCrypt
-------
The source file `passlib/utils/_blowfish/base.py` contains code derived from `jBcrypt 0.2 <http://www.mindrot.org/projects/jBCrypt/>`, a Java implementation of the BCrypt password hash algorithm. It is available under a BSD/ISC license:.

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1.141 python2-texttable 0.9.1-1 :el7
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1.142 python3-backports-
ssl_match_hostname 3.5.0.1-1 :el7

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1.143 python3-chardet 2.3.0-4 :el7

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1.144 python3-docker 2.6.1-1 :el7

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1.145 python3-docker-pycreds 0.2.1-1 :el7
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1.146 python3-idna 2.7-1 :el7

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1.147 python3-PyYAML 3.11-2 :el7

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1.149 python3-setuptools 39.2.0 :el7

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1.151 python3-urllib3 1.19.1-4 :el7

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# Contributions to the urllib3 project

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## Contributors

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

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

* btoconnor <brian@btoconnor.net>
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* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
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  * API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

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  * Optional SNI-support for Python 2 via PyOpenSSL.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.
* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

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

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

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

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

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

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

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

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

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

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

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

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

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

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported
* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

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

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

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

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

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.. _history-and-license:

*******************
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*******************

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
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All Python releases are Open Source (see http://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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Mersenne Twister

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

The `mod:` `_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)  
or init_by_array(init_key, key_length).

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Any feedback is very welcome.  
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html  
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `mod: socket` module uses the functions, `func: getaddrinfo`, and
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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with Python standard

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test_epoll

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Select kqueue
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---------

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Original location:
https://github.com/majek/csiphash/

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

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

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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libmpdec
--------

The `mod:` `decimal` Module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`:

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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For more information on the GPL read the file GPL-2.0.txt
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1.164 time 1.7 :45.el7
1.164.1 Available under license:

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Version 2, June 1991
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