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

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1.2 ansible 2.7.5-1 :el7

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```
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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
# -*- 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 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:
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fixture_data = {}

```

```

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    path = os.path.join(fixture_path, name)

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        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
# -*- coding: utf-8 -*-
#
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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.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.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):

```

```

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

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

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
```

```
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",
  "kind": "cm:device:licensing:pool:regkey:licenses:item:offerings:regkeypoollicenseofferingstate",
  "lastUpdateMicros": 1513107721123304,
  "licenseState": {
    "vendor": "F5 Networks, Inc.",
    "licensedDateTime": "2017-12-12T00:00:00-08:00",
    "licensedVersion": "5.3.0",
    "evaluationStartDateTime": "2017-12-11T00:00:00-08:00",
    "evaluationEndDateTime": "2018-01-12T00:00:00-08:00",
    "licenseEndDateTime": "2018-01-12T00:00:00-08:00",
    "licenseStartDateTime": "2017-12-11T00:00:00-08:00",
    "registrationKey": "XXXX-XXXX-XXXX-XXXX-XXXX",
    "dossier": "1a44262799bc",

```

```

"authorization": "03fc41d1e8666",
"usage": "F5 Internal Product Development",
"platformId": "Z100",
"authVers": "5b",
"serviceCheckDateTime": "2017-12-12T00:00:00-08:00",
"serviceStatus": "As of 2017-12-12 there is no active service contract. This may inhibit your ability to upgrade
your software.",
"exclusivePlatform": [
  "Z100",
  "Z100A",
  "Z100AzureCloud",
  "Z100GoogleCloud",
  "Z100K",
  "Z100x",
  "Z100H"
],
"activeModules": [
  "APM, Max, VE (2500 CCU, 10000 Access Sessions)|P961057-1761515|Anti-Virus Checks",
  "LTM, 10 Gbps, VE|T487107-2453693|, VE|DNSSEC",
  "PEM, VE|X895364-1851682"
],
"optionalModules": [
  "APM, Base, VE (50 CCU / 200 AS)",
  "App Mode (TMSH Only, No Root/Bash)",
  "Concurrent Users",
  "Concurrent Users and Access Sessions, VE",
  "FIPS 140-2 Level 1, BIG-IP VE-1G to 10G",
  "IP Intelligence, 1Yr, VE",
  "IP Intelligence, 1Yr, VE-10G",
  "IP Intelligence, 3Yr, VE-10G",
  "LTM to Better Bundle Upgrade, 10Gbps",
  "PEM URL Filtering, 1Yr, HIGH PERF",
  "PEM URL Filtering, 3Yr, HIGH PERF",
  "Routing Bundle",
  "Secure Web Gateway, 1Yr, VE",
  "URL Filtering, 1Yr, VE"
],
"moduleEvaluations": [
  {
    "moduleName": "IP Intelligence, 3Yr, VE|SUBSCRIPTION",
    "endDate": "soon"
  },
  {
    "moduleName": "Secure Web Gateway, 3Yr, VE|SUBSCRIPTION",
    "endDate": "soon"
  },
  {
    "moduleName": "URL Filtering, 3Yr, VE|SUBSCRIPTION",

```

```

        "endDate": "soon"
    }
],
"featureFlags": [
    {
        "featureName": "gtm_rate_limit",
        "featureValue": "12345"
    }
],
"generation": 0,
"lastUpdateMicros": 0
},
"licenseText": "#Auth vers : BIG-IQ Product License File#",
"message": "License XXXX-XXXX-XXXX-XXXX-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-0e68f5780aa1/offerings/XXXX-XXXX-XXXX-XXXX-XXXX",
"sortName": "Registration Key Pool Item",
"status": "READY"
}
.. _contributor_license_agreement:

```

```

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

```

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```
#!/usr/bin/python
```

```
# Copyright: (c) 2017, Dag Wieers (@dagwieers) <dag@wieers.com>
```

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

```
from __future__ import absolute_import, division, print_function
__metaclass__ = type
```

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

```
DOCUMENTATION = r"""
module: vcenter_license
short_description: Manage VMware vCenter license keys
description:
    - Add and delete vCenter 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 us 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'''

```

licenses:
  description: list of license keys after module executed
  returned: always

```

```

type: list
sample:
- f600d-21ae3-5592b-249e0-cc341
- 143cc-0e942-b2955-3ea12-d006f
'''

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

from ansible.module_utils.basic import AnsibleModule
from ansible.module_utils.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'] = '\n'.join(result['licenses']) + '\n'

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'] = '\n'.join(result['licenses']) + '\n'

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

# (c) 2018, NetApp, Inc
# GNU General Public License v3.0+ (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type

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

DOCUMENTATION = ""

module: na_ontap_license

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

description:
    - Add or remove licenses on NetApp ONTAP.

options:
    state:
        description:

```

- Whether the specified license should exist or not.

choices: ['present', 'absent']

default: present

remove_unused:

description:

- Remove licenses that have no controller affiliation in the cluster.

type: bool

remove_expired:

description:

- Remove licenses that have expired in the cluster.

type: bool

serial_number:

description:

Serial number of the node associated with the license.

This parameter is used primarily when removing license for a specific service.

license_names:

description:

- List of license-names to delete.

suboptions:

base:

description:

- Cluster Base License

nfs:

description:

- NFS License

cifs:

description:

- CIFS License

iscsi:

description:

- iSCSI License

fcp:

description:

- FCP License

cdmi:

description:

- CDMI License

snaprestore:

description:

- SnapRestore License

snapmirror:

description:

- SnapMirror License

flexclone:

```

description:
  - FlexClone License
snapvault:
description:
  - SnapVault License
snaplock:
description:
  - SnapLock License
snapmanagersuite:
description:
  - SnapManagerSuite License
snapprotectapps:
description:
  - SnapProtectApp License
v_storageattach:
description:
  - Virtual Attached Storage License

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

```

'''

EXAMPLES = '''

```

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

```

```

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

```

'''

RETURN = '''

```

"""
import traceback

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

HAS_NETAPP_LIB = netapp_utils.has_netapp_lib()

def local_cmp(a, b):
    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:

```

```

        self.module.fail_json(msg="Error removing license %s" %
                               to_native(error), exception=traceback.format_exc())

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

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

def add_licenses(self):
    """
    Add licenses
    """
    license_add = netapp_utils.zapi.NaElement('license-v2-add')
    codes = netapp_utils.zapi.NaElement('codes')
    for code in self.license_codes:
        codes.add_new_child('license-code-v2', str(code.strip().lower()))
    license_add.add_child_elem(codes)
    try:
        self.server.invoke_successfully(license_add,
                                         enable_tunneling=False)
    except netapp_utils.zapi.NaApiError as error:
        self.module.fail_json(msg="Error adding licenses: %s" %
                               to_native(error), exception=traceback.format_exc())

def apply(self):
    """Call add, delete or modify methods"""
    changed = False
    create_license = False

```

```

remove_license = False
results = netapp_utils.get_cserver(self.server)
cserver = netapp_utils.setup_na_ontap_zapi(
    module=self.module, vserver=results)
netapp_utils.ems_log_event("na_ontap_license", cserver)
# Add / Update licenses.
license_status = self.get_licensing_status()

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

self.module.exit_json(changed=changed)

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

if __name__ == '__main__':

```

```

main()
#!/usr/bin/python

# (c) 2017, NetApp, Inc
# GNU General Public License v3.0+ (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
                    'status': ['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.

```

- This parameter is used primarily when removing license for a specific service.
- If this parameter is not provided, the cluster serial number is used by default.

licenses:

description:

- List of licenses to add or remove.
- Please note that trying to remove a non-existent license will throw an error.

suboptions:

base:

description:

- Cluster Base License

nfs:

description:

- NFS License

cifs:

description:

- CIFS License

iscsi:

description:

- iSCSI License

fcp:

description:

- FCP License

cdmi:

description:

- CDMI License

snaprestore:

description:

- SnapRestore License

snapmirror:

description:

- SnapMirror License

flexclone:

description:

- FlexClone License

snapvault:

description:

- SnapVault License

snaplock:

description:

- SnapLock License

snapmanagersuite:

description:

- SnapManagerSuite License

snapprotectapps:

description:

- SnapProtectApp License

v_storageattach:

description:
- Virtual Attached Storage License

'''

EXAMPLES = '''

- name: Add licenses

na_cdot_license:

hostname: "{{ netapp_hostname }}"

username: "{{ netapp_username }}"

password: "{{ netapp_password }}"

serial_number: #####

licenses:

nfs: #####

cifs: #####

iscsi: #####

fcp: #####

snapstore: #####

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" %
                              to_native(e), exception=traceback.format_exc())

```



```

        to_native(e), exception=traceback.format_exc())

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

    self.module.exit_json(changed=changed)

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

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

# (c) 2016, Cumulus Networks <ce-ceng@cumulusnetworks.com>
# GNU General Public License v3.0+ (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type

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

from ansible.module_utils.common.removed import removed_module

if __name__ == '__main__':
    removed_module(removed_in="2.5")
#!/usr/bin/python
# -*- coding: utf-8 -*-
#
# Copyright: (c) 2017, F5 Networks Inc.
# GNU General Public License v3.0 (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type

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

DOCUMENTATION = r"""
---

```

```

module: bigiq_utility_license
short_description: Manage utility licenses on a BIG-IQ
description:
- Manages utility licenses on a BIG-IQ. Utility licenses are one form of licenses
  that BIG-IQ can distribute. These licenses, unlike regkey licenses, do not require
  a pool to be created before creation. Additionally, when assigning them, you assign
  by offering instead of key.
version_added: 2.6
options:
license_key:
  description:
  - The license key to install and activate.
  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: XXXXXX-XXXXXX-XXXXXX-XXXXXX-XXXXXX
    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'
    ]

```

```
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):
```

```

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

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

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

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

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

def exists(self):
    uri = "https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/?$filter=regKey+eq+'{2}'".format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.license_key
    )
    resp = self.client.api.get(uri)
    try:
        response = resp.json()

```

```

except ValueError as ex:
    raise F5ModuleError(str(ex))

if resp.status == 200 and response['totalItems'] == 0:
    return False
elif 'code' in response and response['code'] == 400:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp._content)
return True

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

def create(self):
    self._set_changed_options()
    if self.module.check_mode:
        return True
    if self.want.accept_eula is False:
        raise F5ModuleError(
            "To add a license, you must accept its EULA. Please see the module documentation for a link to this."
        )
    self.create_on_device()
    self.wait_for_initial_license_activation()
    self.wait_for_utility_license_activation()
    if not self.exists():
        raise F5ModuleError(
            "Failed to activate the license."
        )
    return True

def create_on_device(self):
    params = self.changes.api_params()
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/initial-activation'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
    )

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

```



```

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

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

def wait_for_removal(self):
    count = 0

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

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

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

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

        if response['status'] == 'READY':
            count += 1
        elif response['status'] == 'ACTIVATING_AUTOMATIC_NEED_EULA_ACCEPT':
            uri = response['selfLink'].replace(
                'https://localhost',

```

```

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

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

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

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

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

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

```

```

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

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

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

class ArgumentSpec(object):
    def __init__(self):
        self.supports_check_mode = True
        argument_spec = dict(
            license_key=dict(required=True, no_log=True),
            accept_eula=dict(type='bool'),
            state=dict(
                default='present',
                choices=['present', 'absent']
            ),
        )
        self.argument_spec = {}
        self.argument_spec.update(f5_argument_spec)
        self.argument_spec.update(argument_spec)
        self.required_if = [
            ['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()
#!/usr/bin/python
# -*- coding: utf-8 -*-
#
# Copyright: (c) 2017, F5 Networks Inc.
# GNU General Public License v3.0 (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type

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

DOCUMENTATION = r"""
---
module: bigiq_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 revokes 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-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-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.biqiq 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/?$filter={2}&$stop=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?$filter={2}&$stop=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)

```

```

        else:
            changed[k] = change
    if changed:
        self.changes = UsableChanges(params=changed)
        return True
    return False

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

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

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

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

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

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

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

```

```

        self.client.provider['server_port'],
        self.want.pool_id,
        self.want.key,
        self.want.member_id
    )
    resp = self.client.api.get(uri)
    if resp.status == 200:
        return True
    return False

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

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

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

```

```

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

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

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

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

def wait_for_device_to_be_licensed(self):
    count = 0
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}/members/{4}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.pool_id,
        self.want.key,
        self.want.member_id
    )
    while count < 3:
        resp = self.client.api.get(uri)
        try:
            response = resp.json()
        except ValueError as ex:
            raise F5ModuleError(str(ex))

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

```

```

        count += 1
    else:
        count = 0

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

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

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

```



```

def main():
    spec = ArgumentSpec()

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

    try:
        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) 2017, F5 Networks Inc.
# GNU General Public License v3.0 (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type

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

DOCUMENTATION = r"""
---
module: bigiq_utility_license_assignment
short_description: Manage utility license assignment on BIG-IPs from a BIG-IQ
description:
  - Manages the assignment of utility licenses on a BIG-IQ. Assignment means that
    the license is assigned to a BIG-IP, or, it needs to be assigned to a BIG-IP.
    Additionally, this module supported revoking the assignments from BIG-IP devices.
version_added: 2.7
options:
  unit_of_measure:
    description:
      - Sets the rate at which this license usage is billed.

```

- Depending on your license, you may have different units of measures available to you. If a particular unit is not available to you, the module will notify you at licensing time.

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 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',
        '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: "XXXXXX-XXXXXX-XXXXXX-XXXXXX-XXXXXXXX"
  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.common import f5_argument_spec
    from library.module_utils.network.f5icontrol import iControlRestSession
    from library.module_utils.network.f5icontrol 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):
```

```

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()

```

```

self.escape_patterns = r'([\$\ + \"])"

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

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

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

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

    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(

```



```

        "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

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\n{0}\nEOF""".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\n{0}\nEOF""".format(eula_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.
# GNU General Public License v3.0 (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)
```

```
from __future__ import absolute_import, division, print_function
__metaclass__ = type
```

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

```
DOCUMENTATION = r'''
```

```
---
```

```
module: bigiq_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:
```

```
description:
```

- Description of the license.

```
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: XXXXXX-XXXXXX-XXXXXX-XXXXXX-XXXXXX
  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: XXXXXX-XXXXXX-XXXXXX-XXXXXX-XXXXXX
  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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```
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```

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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.modules.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.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(
            offering='asdf',
            key='XXXX-XXXX-XXXX-XXXX-XXXX',
            device='1.1.1.1',
            managed=False,
            device_username='admin',
            device_password='secret',
            device_port='8443'
        )

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

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

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

```

```

class TestManager(unittest.TestCase):

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

    def test_create(self, *args):
        set_module_args(dict(
            offering='asdf',
            key='XXXX-XXXX-XXXX-XXXX-XXXX',
            device='1.1.1.1',
            device_username='admin',

```

```

    device_password='secret',
    managed='no',
    state='present',
    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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file_io/unix/mktemp.c, strings/apr_strings.c:

```
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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:

* Based on libdl (dlfcn.c/dlfcn.h) which is

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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From strings/apr_snprintf.c:

```
*  
* cvt - IEEE floating point formatting routines.  
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*
```

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1.4 apr 1.4.8-3 :el7

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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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From strings/apr_snprintf.c:

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1.5 apr-util 1.5.2-6 :el7-7

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```
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1.10 avahi 0.6.31-19 :el7

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becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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If distribution of object code is made by offering access to copy

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

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

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

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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1.11 avahi 0.6.31-17 :el7-3

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

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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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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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1.12 bash-completion 2.1-6 :el7

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```

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```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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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
{
 #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() << "</a>";
    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>\n"
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
  os << " for " << *(m_module_list.begin());
}
os <<
  "</H1>\n"
  "<H2>Contents</h2>\n"
  "<pre><a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
  os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";

while(i != j)
{
  // title:
  os << " <A href=\"#\" << make_link_target(licenses.first[i->first].license_name)
    << "\">" << licenses.first[i->first].license_name << "</a>\n";
  ++i;
}

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

//
// input Information:
//
os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
  os << "<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><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+)");
boost::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 % 1000 << "." << 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>\n";
    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=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(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\"></a><h2>Licence Details</h2>\n";
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>\n<BLOCKQUOTE><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:</P>\n<BLOCKQUOTE><P>";
        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>\n"
    "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>\n";
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>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name=\"authors\"></a>Files With No Recognisable Copyright Holder</h2>\n"
    "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n<BLOCKQUOTE><P>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</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>\n"
        << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
    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>\n<table border='1'\n <tr>\n  <td><pre>"
        << i->second.first << "</pre></td>\n  <td><pre>"
        << i->second.second << "</pre></td>\n </tr>\n</table>\n";
    ++i;
    ++file_num;
}
}
//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name='to-bsl'\n">Files that could be converted to the Boost Software License</h2>\n"
"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:</P>\n<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>\n";
    ++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'\n">Files that can NOT be converted to the Boost Software
License</h2>\n"
"<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:</P>\n<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>\n";
    ++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'\n">Authors we need for the BSL</h2>\n"
"<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>.</P>\n<BLOCKQUOTE><P>";

```

```

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
         std::ostream_iterator<std::string>(os, "<br>\n"));
os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<H2><a name=\"copyright\"></a>Copyright Holder Information</H2><table border=\"1\">\n";
std::map<std::string, std::set<fs::path, path_less>>::const_iterator ad, ead;
ad = m_author_data.begin();
ead = 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\"></a>File Dependency Information</H2><BLOCKQUOTE><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>\n";

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 1963-1965 Jane Doe, 2018 Joe Blow, John Coe]
[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
Wed, 17 July 2002, 19:27:00 +0400.

Copyright:

```

/+\\
+\\ Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
\\+/

```

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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 Dossier (dossier@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 (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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//

// See <http://www.boost.org/libs/intrusive> for documentation.

//

////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP

#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

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

```

#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

```

```

    , typename T1
    , typename T2
    >
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

#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; };

template <typename R, class T0>

```

```

struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{ 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, 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

#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
////////////////////////////////////////////////////////////////
//
// (C) Copyright Ion Gaztanaga 2005-2012.
//
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// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/container for documentation.
//
////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)

```

```

# pragma once
#endif

#include <cstdint>

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 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 <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

```



```

////////////////////////////////////
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/interprocess for documentation.
//
////////////////////////////////////

```

```

#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];
};

```

```

};

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<

```

```

    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;
};

```

```
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href=" ../..../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.77.1">
<link rel="home" href=" ../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="up" href=" ../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
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<td valign="top"></td>
<td align="center"><a href=" ../..../index.html">Home</a></td>
<td align="center"><a href=" ../..../libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"><a href=" ../..../more/index.htm">More</a></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href=" ../index.html"></a><a accesskey="h"
href=" ../index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
<div class="section boost_typetraits_mpl">
<div class="titlepage"><div><div><h2 class="title" style="clear: both">
<a name="boost_typetraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL
```

Interoperability

All the value based traits in this library conform to MPL's requirements for an [Integral Constant type](../../libs/mpl/doc/refmanual/integral-constant.html): that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `boost::integral::true_type` inherits from `boost::mpl::bool_`, `boost::integral::false_type` inherits from `boost::mpl::bool_` and `boost::integral::integral_constant` inherits from `boost::mpl::integral_c` (provided `boost::mpl::bool_` is not `boost::mpl::keyword`)

Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant, Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven Watanabe

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```

<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href="../index.html"></a><a accesskey="h"
href="../index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
</body>
</html>

```

```
[/
```

```

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]

```

```
[section:mpl MPL Interoperability]
```

All the value based traits in this library conform to MPL's requirements for an [[@../../libs/mpl/doc/refmanual/integral-constant.html](../../libs/mpl/doc/refmanual/integral-constant.html) Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type`` inherits from [[@../../libs/mpl/doc/refmanual/bool.html](../../libs/mpl/doc/refmanual/bool.html) `boost::mpl::true_``], `__false_type`` inherits from [[@../../libs/mpl/doc/refmanual/bool.html](../../libs/mpl/doc/refmanual/bool.html) `boost::mpl::false_``], and `__integral_constant<T, v>`` inherits from [[@../../libs/mpl/doc/refmanual/integral-c.html](../../libs/mpl/doc/refmanual/integral-c.html) `boost::mpl::integral_c<T,v>``] (provided `T`` is not `bool``)

```
[endsect]
```

```
<?xml version="1.0" encoding="utf-8"?>
```

```

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-->

```

```

<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="../../index.htm">
<imagedata align="left"
format="GIF"
fileref="../../boost.png"
alt="C++ Boost" />
</ulink>-->
<!--hr /-->
<para>

```


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</para>

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</para>

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Name: ceph

Maintainer: Sage Weil <sage@newdream.net>

Source: <http://ceph.com/>

Files: *

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Version 3, 29 June 2007

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```
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1.23 conntrack-tools 1.4.4-3 :el7_3

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1.24 container-selinux 2.74-1 :el7

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1.25 container-selinux 2.36-1.gitff95335 :el7

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1.26 container-storage-setup 0.8.0-

3.git1d27ecf :el7

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1.27 cryptsetup 2.0.3-3 :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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1.29 cryptsetup 1.7.4-3 :el7-3

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You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

<OL TYPE="a">

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

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

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

<P>The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

<P>If distribution of executable or 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 counts as

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<OL START="11">

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<H3>How to Apply These Terms to Your New Programs</H3>

<P>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.

<P>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.

<PRE>

<VAR>one line to give the program's name and an idea of what it does.</VAR>

Copyright (C) <VAR>yyyy</VAR> <VAR>name of author</VAR>

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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:

```
<PRE>
Gnomovision version 69, Copyright (C) <VAR>year</VAR> <VAR>name of author</VAR>
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.
</PRE>
```

The hypothetical commands `<SAMP>`show w'</SAMP>` and `<SAMP>`show c'</SAMP>` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `<SAMP>`show w'</SAMP>` and `<SAMP>`show c'</SAMP>`; 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:

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

```
<VAR>signature of Ty Coon</VAR>, 1 April 1989
Ty Coon, President of Vice
</PRE>
```

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Version 2, June 1991

```
<PRE>
Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
```

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

</PRE>

<H3>Preamble</H3>

<P>The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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<P>When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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<P>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.

<P>Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

<P>Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

<P>Finally, any free program is threatened constantly by software

patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

<P>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.

<P>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.

<P>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.

<P>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.

<P>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.

<P>Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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<P>0.

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<P>A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

<P>The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

<P>"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.

<P>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.

<P>1.

You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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You may modify your copy or copies of the Library or any portion

of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

<OL TYPE="a">

The modified work must itself be a software library.

<P>

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

<P>

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

<P>

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.

<P>(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.)

<P>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.

<P>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.

<P>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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<P>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.

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

<P>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.

<P>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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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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<OL TYPE="a">

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

<P>

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.

<P>

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.

<P>

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

<P>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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<OL TYPE="a">

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<P>

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<P>To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<PRE>

<VAR>one line to give the library's name and an idea of what it does.</VAR>
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</PRE>

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

<PRE>
Yoyodyne, Inc., hereby disclaims all copyright interest in
the library `Frob' (a library for tweaking knobs) written
by James Random Hacker.

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

<P>That's all there is to it!

</BODY>
</HTML>

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INTRODUCTION

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here 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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[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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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"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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You may charge a fee for the physical act of transferring a copy,

and you may at your option offer warranty protection in exchange for a fee.

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

In addition, mere aggregation of another work not based on the Library

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also 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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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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1.31.1 Available under license :

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```

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

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<VAR>signature of Ty Coon</VAR>, 1 April 1989
Ty Coon, President of Vice
</PRE>
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<P>Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

<P>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.

<P>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.

<P>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.

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

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works together with the library.

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<P>0.

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<OL TYPE="a">

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<P>

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<P>

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.

<P>(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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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.

<P>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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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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<OL TYPE="a">

Accompany the work with the complete corresponding

machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

<P>

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.

<P>

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.

<P>

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

<P>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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<OL TYPE="a">

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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<PRE>

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</PRE>

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<PRE>

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

<P>That's all there is to it!

</BODY>

</HTML>

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1 Infinite Loop

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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.>  
Copyright (C) 19yy <name of author>
```

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```
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 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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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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1.32 device-mapper-multipath 0.4.9-111 :el

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A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"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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charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file 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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- 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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is

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```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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

That's all there is to it!

1.33 device-mapper-multipath 0.4.9-119

:el7_5.1

1.33.1 Available under license :

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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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2. You may modify your copy or copies of the Library or any portion

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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.)

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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.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
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1.34 device-mapper-multipath 0.4.9-123 :el7

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

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

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

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.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf

see <http://github.com/gogo/protobuf/gogoprotoc/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/gogoprotos. 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.

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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.
if test.GetLabel() != newTest.GetLabel() {
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}
// etc.
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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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

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Installation

To use this software, you must:

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See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

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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.

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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.

```
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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
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- Names are turned from `camel_case` to `CamelCase` for export.
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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.

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```

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

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package main

import (
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```

```

"path/to/example"
)

func main() {
test := &example.Test {
Label: proto.String("hello"),
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```
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```

=====

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Consider file `test.proto`, containing

```
package example;

enum FOO { X = 17; };

message Test {
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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"),
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    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() {
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=====

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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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First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

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gogo.proto is located in github.com/gogo/protobuf/gogoprotoc
This should be fine, since your import is the same.
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or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

```
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```
=====
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msg.Foo = proto.String("hello") // set field
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  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"
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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)
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    if test.GetLabel() != newTest.GetLabel() {
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    // etc.
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```
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=====

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  }
}
```

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package main

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    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
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  }
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  err = proto.Unmarshal(data, newTest)
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```
// Now test and newTest contain the same data.
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=====

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```
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    required string RequiredField = 5;  
  }  
}
```

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```
package main
```

```
import (  
  "log"
```

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```

```
  "path/to/example"
```

```

)

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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newTest := &example.Test{}
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if err != nil {
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  }
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  if err != nil {
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  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
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<http://github.com/gogo/protobuf/gogoproto>

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

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<https://github.com/golang/protobuf>

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See

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- Grab the code from the repository and install the proto package.

The simplest way is to run

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

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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/gogoprototo

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](https://code.google.com/p/protobuf/trunk/src/) so it might need some help.

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

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Helpers for getting values are superseded by the

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msg.Foo = proto.String("hello") // set field
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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 {
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// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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        },
    }
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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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  }
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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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 required string RequiredField = 5;
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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 {
 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 --go_out=plugins=grpc:. *.proto
```

=====

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

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

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- Of course, install the Go compiler and tools from  
<https://golang.org/>

See

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for details or, if you are using gccgo, follow the instructions at

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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.

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Using protocol buffers with Go
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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.

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

```
=====
```

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- A Reset() method will restore a protobuf struct to its zero state.
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- 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.
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 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}

```

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

---

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```



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

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

```
=====
```

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GetFoo methods and their use is deprecated.

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

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  - 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
```

=====

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Its import is [google/protobuf/descriptor.proto](http://google/protobuf/descriptor.proto) so it might need some help.

```
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```

```
=====
```

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- 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.
}

```

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```
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=====

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descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](https://github.com/gogo/protobuf/protobuf)  
or [code.google.com/p/protobuf/trunk/src/](https://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.

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All desired fields must be set before marshaling.

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

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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 {
 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
```

=====

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<https://github.com/golang/protobuf>

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To use this software, you must:

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<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

```
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 {
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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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=====

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

=====

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```
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```

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/gogoprotobuf](http://github.com/gogo/protobuf/gogoprotobuf). This should be fine, since your import is the same. descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](http://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](http://code.google.com/p/protobuf/trunk/src/). Its import is [google/protobuf/descriptor.proto](http://google/protobuf/descriptor.proto) so it might need some help.

```
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```

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

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```

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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](https://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](https://code.google.com/p/protobuf/trunk/src/)

Its import is [google/protobuf/descriptor.proto](https://code.google.com/p/protobuf/descriptor.proto) so it might need some help.

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

=====

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

=====

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<https://github.com/golang/protobuf>

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See

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- Grab the code from the repository and install the proto package.

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```
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=====

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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
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/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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0x20, 0x4d, 0x45, 0x52, 0x43, 0x48, 0x41, 0x4e, 0x54, 0x41, 0x42, 0x49,
0x4c, 0x49, 0x54, 0x59, 0x2c, 0x0a, 0x46, 0x49, 0x54, 0x4e, 0x45, 0x53,
0x53, 0x20, 0x46, 0x4f, 0x52, 0x20, 0x41, 0x20, 0x50, 0x41, 0x52, 0x54,
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0x59, 0x52, 0x49, 0x47, 0x48, 0x54, 0x20, 0x48, 0x4f, 0x4c, 0x44, 0x45,
0x52, 0x53, 0x20, 0x42, 0x45, 0x20, 0x4c, 0x49, 0x41, 0x42, 0x4c, 0x45,
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0x53, 0x20, 0x49, 0x4e, 0x0a, 0x54, 0x48, 0x45, 0x20, 0x53, 0x4f, 0x46,  
0x54, 0x57, 0x41, 0x52, 0x45, 0x2e, 0x0a  
};  
unsigned int LICENSE_len = 1099;  
The MIT License (MIT)
```

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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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perks - a fork of <https://github.com/bmizerany/perks>

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

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Support for streaming Protocol Buffer messages for the Go language (golang).

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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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Protocol Buffers for Go with Gadgets

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.TH "etcdctl3" "1" "Nov 2017" "Auto generated by spf13/cobra" ""

.nh

.ad 1

.SH NAME

.PP

etcdctl\role\revoke\permission - Revokes a key from a role

.SH SYNOPSIS

.PP

\fB\etcdctl role revoke\permission\fp [OPTIONS]

.SH DESCRIPTION

.PP

Revokes a key from a role

.SH OPTIONS

.PP

\fB\-\-from\key\fp[=false]

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

.PP

\fB\-\-prefix\fp[=false]

revoke a prefix permission

.SH OPTIONS INHERITED FROM PARENT COMMANDS

.PP

\fB\-\-cacert\fp=""

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

.PP

\fB\-\-cert\fp=""

identify secure client using this TLS certificate file

.PP

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

.PP

`\fB\-\-debug\fP[=false]`
enable client\-\-side debug logging

.PP

`\fB\-\-dial\-\-timeout\fP=2s`
dial timeout for client connections

.PP

`\fB\-\-endpoints\fP=[127.0.0.1:2379]`
gRPC endpoints

.PP

`\fB\-\-hex\fP[=false]`
print byte strings as hex encoded strings

.PP

`\fB\-\-insecure\-\-skip\-\-tls\-\-verify\fP[=false]`
skip server certificate verification

.PP

`\fB\-\-insecure\-\-transport\fP[=true]`
disable transport security for client connections

.PP

`\fB\-\-key\fP=""`
identify secure client using this TLS key file

.PP

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

.PP

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

.SH SEE ALSO

.PP

`\fB\-\-role(1)\fP`

.SH HISTORY

.PP

20-Nov-2017 Auto generated by spf13/cobra

.TH "etcdctl3" "1" "Nov 2017" "Auto generated by spf13/cobra" ""

.nh

.ad 1

.SH NAME

.PP

etcdctl\role\grant\permission \- Grants a key to a role

.SH SYNOPSIS

.PP

\fB\etcdctl=3 etcdctl role grant\permission\fP [OPTIONS]

.SH DESCRIPTION

.PP

Grants a key to a role

.SH OPTIONS

.PP

\fB\--from\key\fP[=false]

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

.PP

\fB\--prefix\fP[=false]

grant a prefix permission

.SH OPTIONS INHERITED FROM PARENT COMMANDS

.PP

\fB\--cacert\fP=""

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

.PP

\fB\--cert\fP=""

identify secure client using this TLS certificate file

.PP

\fB\--command\timeout\fP=5s

timeout for short running command (excluding dial timeout)

.PP

\fB\--debug\fP[=false]

enable client-side debug logging

.PP

`\fB\-\-dial\--timeout\fP=2s`

dial timeout for client connections

.PP

`\fB\-\-endpoints\fP=[127.0.0.1:2379]`

gRPC endpoints

.PP

`\fB\-\-hex\fP[=false]`

print byte strings as hex encoded strings

.PP

`\fB\-\-insecure\--skip\--tls\--verify\fP[=false]`

skip server certificate verification

.PP

`\fB\-\-insecure\--transport\fP[=true]`

disable transport security for client connections

.PP

`\fB\-\-key\fP=""`

identify secure client using this TLS key file

.PP

`\fB\-\-user\fP=""`

username[:password] for authentication (prompt if password is not supplied)

.PP

`\fB\--w\fP, \fB\-\-write\--out\fP="simple"`

set the output format (fields, json, protobuf, simple, table)

.SH SEE ALSO

.PP

`\fB\etcdctl\--role(1)\fP`

.SH HISTORY

.PP

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1.46 git 1.8.3.1-20 :el7

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```

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```
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```

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

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Version 3, 29 June 2007

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Version 2, June 1991

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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_ETIME). 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_ETIME)
```

```
+      UP_TIMES | UP_ETIME | UP_PERM)
```

```
typedef enum {
    GF_UPCALL_EVENT_NULL,
```

--

1.7.1

From a2cb732a71d341edb65e4cdbf103a3fec35e8589 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: If894e3895d070d46b62d2452e52c1eaafc56c29

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 $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_INVALID)
+ {
+     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 :

From ac610b87289530bccadb9e245912c4491c1affd5 Mon Sep 17 00:00:00 2001
 From: Niels de Vos <ndevos@redhat.com>
 Date: Thu, 6 Jul 2017 17:04:17 +0200
 Subject: [PATCH 551/557] nfs: add permission checking for mounting over WebNFS

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 e304f48fa262e5cdbe181fb3fee5dfb9c893108c:
 > 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 ++++++-----

```

4 files changed, 100 insertions(+), 63 deletions(-)

```
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:
 * we need to strip out the volume name first.
 */
char *
-__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,
 /* After the resolving the symlink , parsing should be done
 * for the populated mount path
 */
-    ret = mnt3_parse_dir_exports (mres->req, mres->mstate, real_loc);
+    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)

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,
@@ -1586,11 +1588,11 @@ mnt3_resolve_export_subdir (rpcsvc_request_t *req, struct mount3_state *ms,
    if ((!req) || (!ms) || (!exp))
        return ret;

- 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
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 = strdupa (path);
-   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);
+       gf_msg_trace (GF_NFS, 0, "Volname: %s and cl->xlator->name: %s",
+                   volname, cl->xlator->name);

-       if (strcmp (volptr, cl->xlator->name) == 0) {
+       if (strcmp (volname, 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
```

```
-nfs3_funge_webnfs_zerolen_fh (struct nfs3_state *nfs3st, struct nfs3_fh *fh,
```

```
- char *name)
```

```
+static int
```

```
+nfs3_funge_webnfs_zerolen_fh (rpcsvc_request_t *req, struct nfs3_state *nfs3st,
```

```
+ struct nfs3_fh *fh, char *name)
```

```
{
```

```
- xlator_t *fungexl = NULL;
```

```
- glfs_t *fs = NULL;
```

```
- loc_t loc = { 0, };
```

```
- 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, };
```

```
+ int ret = -1;
```

```
+ char *subdir = NULL;
```

```
+ char volname[NAME_MAX] = { 0, };
```

```
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");
```

```
+ ret = -ENOENT;
```

```
+ 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;
    }

    /* 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,
                                fungexl);

    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,
                NFS_MSG_HARD_RESOLVE_FAIL,
-       "failed to start hard resolve");
-       stat = nfs3_errno_to_nfsstat3 (-ret);
+       "failed to start hard resolve");
    }

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

```

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_ETIME). 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_ETIME)
+                          UP_TIMES | UP_ETIME | UP_PERM)

typedef enum {
    GF_UPCALL_EVENT_NULL,
--
1.7.1
```

From a2cb732a71d341edb65e4cdbf103a3fec35e8589 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: If894e3895d070d46b62d2452e52c1eaafc56c29

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 $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_INVALID)
+    {
+        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

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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.
```

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```
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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1.55 httpd 2.4.6-88 :el7

1.55.1 Available under license :

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href="/sitemap.html">Sitemap</a></p>
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href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;&nbsp;</a></p>
</div>

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pointed towards suggestions on improving the documentation or server, and may be removed again by our
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HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a
href="http://httpd.apache.org/lists.html">mailing lists</a>.</div>
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/*

```

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```

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For the server\util_md5.c component:

```

/*****

```

```

* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications

```

```

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
*****
*
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*
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```
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```
*/
```

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*/
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* -----
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```

For the srclib\apr-util\xml\expat\conftools\install-sh component:

```
#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
#
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#
```

For the test\zb.c component:

```
/* ZeusBench V1.01
=====
```

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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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=====

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URI: license.html.en

Content-Language: en

Content-type: text/html; charset=ISO-8859-1

<?xml version="1.0" encoding="ISO-8859-1"?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head><!--

XX
X

This file is generated from xml source: DO NOT EDIT

XX
X

-->

<title>The Apache License, Version 2.0 - Apache HTTP Server</title>

<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>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>

<body id="manual-page" class="no-sidebar"><div id="page-header">

<p class="menu">Modules | Directives | FAQ | Glossary | Sitemap</p>

<p class="apache">Apache HTTP Server Version 2.4</p>

</div>

<div class="up"></div>

<div id="path">

Apache > HTTP Server > Documentation > Version 2.4</div><div id="page-content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>

<div class="toplans">

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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

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class="warning">Notice:
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<script type="text/javascript"><!--><![CDATA[//><!--

var comments_shortcode = 'httpd';

var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {

d.write('<div id="comments_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortcode + '&page=' +

comments_identifier;

(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);

}

else {

d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');

}

})(window, document);

//><!--></script></div><div id="footer">

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<p class="menu">Modules | Directives | FAQ | Glossary | Sitemap</p></div><script type="text/javascript"><!--><![CDATA[//><!--

if (typeof(prettyPrint) !== 'undefined') {

prettyPrint();

}

```
//--><!]]></script>
</body></html>
```

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* mod_mime_magic: MIME type lookup via file magic numbers

```

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```

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For the server\util_md5.c component:

```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign

```


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* httpd@ncsa.uiuc.edu
*
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*
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```

For the srclib\apr-util\xml\expat\conf\tools\install-sh component:

```
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# This comes from X11R5 (mit/util/scripts/install.sh).
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```

For the test\zb.c component:

```
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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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<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head><!--

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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>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>

<body id="manual-page" class="no-sidebar"><div id="page-header">

<p class="menu">Modules | Directives | FAQ | Glossary | Sitemap</p>

<p class="apache">Apache HTTP Server Version 2.4</p>

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<div class="up"></div>

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Apache > HTTP Server > Documentation > Version 2.4</div><div id="page-content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>

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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

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class="warning">Notice:
This is not a Q&A section. Comments placed here should be
pointed towards suggestions on improving the documentation or server, and may be removed again by our
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<script type="text/javascript"><!--><![CDATA[//><!--

var comments_shortcode = 'httpd';

var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {

d.write('<div id="comments_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortcode + '&page=' +

comments_identifier;

(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);

}

else {

d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');

}

})(window, document);

//><![></script></div><div id="footer">

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<p class="menu">Modules | Directives | FAQ | Glossary | Sitemap</p></div><script type="text/javascript"><!--><![CDATA[//><!--

if (typeof(prettyPrint) !== 'undefined') {

prettyPrint();

}

```
//--><!]]></script>  
</body></html>
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```

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```

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For the server\util_md5.c component:

```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign

```

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* httpd@ncsa.uiuc.edu
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*
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```

For the srclib\apr-util\xml\expat\conf\tools\install-sh component:

```
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# install - install a program, script, or datafile
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For the test\zb.c component:

```
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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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888 8 888 .d88' Y888..8P
888 8 888ooo88P' `8888'
888 8 888 .8PY888.
`88. .8' 888 d8' `888b
`YbodP' o888o o888o o88888o
```

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* Author: Jim Fulton, MIT The Open Group

*

* Xlib Extension-Writing Utilities

*

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*

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*

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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```
printf("%s", png_get_copyright(NULL));
```

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Jan Holmberg, <jan@artech.net> :

- 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 priority.

1.71 keepalived 1.3.5-6 :el7

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- 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 priority.

1.72 keepalived 1.3.5-1 :el7

1.72.1 Available under license :

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Jan Holmberg, <jan@artech.net> :

- 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 priority.

1.73 keyutils 1.5.8 :3.e17

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```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989

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1.74 keyutils_tools-GPLv2 1.5.8 :3.e17

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<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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<signature of Ty Coon>, 1 April 1989
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1.75 krb5 1.15.1-34 :el7

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import os

```

import sys
import re

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

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

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

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^\*( [^ ]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.

```

```

if not in_comment:
    line = re.sub(r'^\s.*?\s*/', '', line)
line = line.strip()

if not in_comment and '/*' 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('*').rstrip())
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/iprof/iprof.x
cmd/krb5/iprof/iprof_hdr.h
cmd/krb5/kadmin/server/iprofd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
```

lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
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
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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```
<title>MIT Kerberos License information &mdash; MIT Kerberos Documentation</title>
```

```
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
```

```

<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
  URL_ROOT:    './',
  VERSION:    '1.15.1',
  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
  HAS_SOURCE:  true
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
<link rel="author" title="About these documents" href="about.html" />
<link rel="copyright" title="Copyright" href="copyright.html" />
<link rel="top" title="MIT Kerberos Documentation" href="index.html" />
<link rel="up" title="MIT Kerberos features" href="mitK5features.html" />
<link rel="next" title="Copyright" href="copyright.html" />
<link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
</head>
<body>
<div class="header-wrapper">
  <div class="header">

    <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

    <div class="rel">

      <a href="index.html" title="Full Table of Contents"
        accesskey="C">Contents</a> |
      <a href="mitK5features.html" title="MIT Kerberos features"
        accesskey="P">previous</a> |
      <a href="copyright.html" title="Copyright"
        accesskey="N">next</a> |
      <a href="genindex.html" title="General Index"
        accesskey="I">index</a> |
      <a href="search.html" title="Enter search criteria"
        accesskey="S">Search</a> |
      <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
    </div>
  </div>
</div>

<div class="content-wrapper">
  <div class="content">
    <div class="document">

```

```
<div class="documentwrapper">
  <div class="bodywrapper">
    <div class="body">
```

```
<div class="section" id="mit-kerberos-license-information">
<span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-
kerberos-license-information" title="Permalink to this headline"></a></h1>
```

```
<div class="toctree-wrapper compound">
</div>
```

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</ul>
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```

class="o"/></span><span class="n">mechglue</span><span class="o"/></span><span
class="n">g_utils</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">gssapi</span><span
class="o"/></span><span class="n">mechglue</span><span class="o"/></span><span
class="n">g_verify</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">gssapi</span><span
class="o"/></span><span class="n">mechglue</span><span class="o"/></span><span
class="n">gssd_pname_to_uid</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">gssapi</span><span
class="o"/></span><span class="n">mechglue</span><span class="o"/></span><span
class="n">mglueP</span><span class="o"/></span><span class="n">h</span>
<span class="n">lib</span><span class="o"/></span><span class="n">gssapi</span><span
class="o"/></span><span class="n">mechglue</span><span class="o"/></span><span
class="n">oid_ops</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">gssapi</span><span
class="o"/></span><span class="n">spnego</span><span class="o"/></span><span
class="n">gssapiP_spnego</span><span class="o"/></span><span class="n">h</span>
<span class="n">lib</span><span class="o"/></span><span class="n">gssapi</span><span
class="o"/></span><span class="n">spnego</span><span class="o"/></span><span
class="n">spnego_mech</span><span class="o"/></span><span class="n">c</span>
</pre></div>
</div>

```

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

```

<div class="highlight-python"><div class="highlight"><pre><span class="n">include</span><span
class="o"/></span><span class="n">iprop_hdr</span><span class="o"/></span><span class="n">h</span>
<span class="n">kadmin</span><span class="o"/></span><span class="n">server</span><span
class="o"/></span><span class="n">ipropd_svc</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">kdb</span><span class="o"/></span><span
class="n">iprop</span><span class="o"/></span><span class="n">x</span>
<span class="n">lib</span><span class="o"/></span><span class="n">kdb</span><span class="o"/></span><span
class="n">kdb_convert</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">kdb</span><span class="o"/></span><span
class="n">kdb_log</span><span class="o"/></span><span class="n">c</span>
<span class="n">lib</span><span class="o"/></span><span class="n">kdb</span><span class="o"/></span><span
class="n">kdb_log</span><span class="o"/></span><span class="n">h</span>
<span class="n">lib</span><span class="o"/></span><span class="n">krb5</span><span
class="o"/></span><span class="n">error_tables</span><span class="o"/></span><span
class="n">kdb5_err</span><span class="o"/></span><span class="n">et</span>
<span class="n">slave</span><span class="o"/></span><span class="n">kpropd_rpc</span><span
class="o"/></span><span class="n">c</span>
<span class="n">slave</span><span class="o"/></span><span class="n">kproplog</span><span
class="o"/></span><span class="n">c</span>
</pre></div>
</div>

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</div>

</div>

</div>

</div>

</div>

<div class="sidebar">

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<h2>Table of contents</h2>

- For users

- For administrators

- For application developers

- For plugin module developers

- Building Kerberos V5

- Kerberos V5 concepts

- Protocols and file formats

- MIT Kerberos features

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the source</a></li>
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Documentation</a></li>
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<br/>
```

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<h4>Search</h4>
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<form class="search" action="search.html" method="get">
```

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  <input type="text" name="q" size="18" />
```

```
  <input type="submit" value="Go" />
```

```
  <input type="hidden" name="check_keywords" value="yes" />
```

```
  <input type="hidden" name="area" value="default" />
```

```
</form>
```

```
  </div>
```

```
  <div class="clearer"></div>
```

```
</div>
```

```
</div>
```

```
<div class="footer-wrapper">
```

```
  <div class="footer" >
```

```
    <div class="right" ><i>Release: 1.15.1</i><br />
```

```
    &copy; <a href="copyright.html">Copyright</a> 1985-2017, MIT.
```

```
    </div>
```

```
    <div class="left">
```

```
      <a href="index.html" title="Full Table of Contents"
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        >next</a> |
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      <a href="genindex.html" title="General Index"
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```
        >index</a> |
```

```
      <a href="search.html" title="Enter search criteria"
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```
        >Search</a> |
```

```
      <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
```

```
    </div>
```

```
  </div>
```

```
</div>
```

```
</body>
```

```
</html>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```



```

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

  <title>Copyright &mdash; MIT Kerberos Documentation</title>

  <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />

  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT: './',
      VERSION: '1.15.1',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE: true
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
  <script type="text/javascript" src="_static/doctools.js"></script>
  <link rel="author" title="About these documents" href="about.html" />
  <link rel="copyright" title="Copyright" href="#" />
  <link rel="top" title="MIT Kerberos Documentation" href="index.html" />
  <link rel="up" title="MIT Kerberos License information" href="mitK5license.html" />
  <link rel="next" title="How to build this documentation from the source" href="build_this.html" />
  <link rel="prev" title="MIT Kerberos License information" href="mitK5license.html" />
</head>
<body>
  <div class="header-wrapper">
    <div class="header">

      <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

      <div class="rel">

        <a href="index.html" title="Full Table of Contents"
          accesskey="C">Contents</a> |
        <a href="mitK5license.html" title="MIT Kerberos License information"
          accesskey="P">previous</a> |
        <a href="build_this.html" title="How to build this documentation from the source"
          accesskey="N">next</a> |
        <a href="genindex.html" title="General Index"
          accesskey="I">index</a> |

```

```
<a href="search.html" title="Enter search criteria"
  accesskey="S">Search</a> |
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
</div>
</div>
</div>
```

```
<div class="content-wrapper">
<div class="content">
<div class="document">
```

```
<div class="documentwrapper">
<div class="bodywrapper">
<div class="body">
```

```
<div class="section" id="copyright">
<h1>Copyright<a class="headerlink" href="#copyright" title="Permalink to this headline"></a></h1>
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</div>
```

```
</div>
</div>
</div>
</div>
<div class="sidebar">
<h2>On this page</h2>
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<li><a class="reference internal" href="#">Copyright</a></li>
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Documentation</a></li>
<li class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
</ul>
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```
<br/>
<h4><a href="index.html">Full Table of Contents</a></h4>
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<form class="search" action="search.html" method="get">
  <input type="text" name="q" size="18" />
  <input type="submit" value="Go" />
  <input type="hidden" name="check_keywords" value="yes" />
  <input type="hidden" name="area" value="default" />
</form>
</div>
<div class="clearer"></div>
</div>
</div>
```

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<div class="footer-wrapper">
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      <a href="index.html" title="Full Table of Contents"
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      <a href="search.html" title="Enter search criteria"
        >Search</a> |
      <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
    </div>
  </div>
</div>
```

```
</body>
</html>
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```

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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_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:

.. 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/kproplog.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' % (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('*').rstrip())
    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/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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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
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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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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```
<title>MIT Kerberos License information &mdash; MIT Kerberos Documentation</title>
```

```
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
```

```
<script type="text/javascript">
```

```
var DOCUMENTATION_OPTIONS = {
```

```
    URL_ROOT:    '/',
```

```
    VERSION:    '1.15.1',
```

```
    COLLAPSE_INDEX: false,
```

```
    FILE_SUFFIX: '.html',
```

```
    HAS_SOURCE: true
```

```
};
```

```
</script>
```

```
<script type="text/javascript" src="_static/jquery.js"></script>
```

```
<script type="text/javascript" src="_static/underscore.js"></script>
```

```
<script type="text/javascript" src="_static/doctools.js"></script>
```

```
<link rel="author" title="About these documents" href="about.html" />
```

```
<link rel="copyright" title="Copyright" href="copyright.html" />
```

```
<link rel="top" title="MIT Kerberos Documentation" href="index.html" />
```

```
<link rel="up" title="MIT Kerberos features" href="mitK5features.html" />
```

```
<link rel="next" title="Copyright" href="copyright.html" />
```

```
<link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
```

```
</head>
```

```
<body>
```

```
<div class="header-wrapper">
```

```
<div class="header">
```

```
<h1><a href="index.html">MIT Kerberos Documentation</a></h1>
```

```
<div class="rel">
```

```
<a href="index.html" title="Full Table of Contents"
```

```
    accesskey="C">Contents</a> |
```

```
<a href="mitK5features.html" title="MIT Kerberos features"
```

```
    accesskey="P">previous</a> |
```

```
<a href="copyright.html" title="Copyright"
```

```
    accesskey="N">next</a> |
```



```

<a href="genindex.html" title="General Index"
  accesskey="I">index</a> |
<a href="search.html" title="Enter search criteria"
  accesskey="S">Search</a> |
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
  </div>
</div>
</div>

<div class="content-wrapper">
<div class="content">
  <div class="document">

<div class="documentwrapper">
  <div class="bodywrapper">
    <div class="body">

<div class="section" id="mit-kerberos-license-information">
<span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-
kerberos-license-information" title="Permalink to this headline"></a></h1>
<div class="toctree-wrapper compound">
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<div class="highlight-python"><div class="highlight"><pre>lib/gssapi/generic/gssapi_err_generic.et</pre>

lib/gssapi/mechglue/g_accept_sec_context.c</pre>

lib/gssapi/mechglue/g_acquire_cred.c</pre>

lib/gssapi/mechglue/g_canon_name.c</pre>

lib/gssapi/mechglue/g_compare_name.c</pre>

lib/gssapi/mechglue/g_context_time.c</pre>

lib/gssapi/mechglue/g_delete_sec_context.c</pre>

lib/gssapi/mechglue/g_dsp_name.c</pre>

lib/gssapi/mechglue/g_dsp_status.c</pre>

lib/gssapi/mechglue/g_dup_name.c</pre>


```
class="n">kdb_log</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o"></span><span class="n">krb5</span><span
class="o"></span><span class="n">error_tables</span><span class="o"></span><span
class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span>
<span class="n">slave</span><span class="o"></span><span class="n">kpropd_rpc</span><span
class="o">.</span><span class="n">c</span>
<span class="n">slave</span><span class="o"></span><span class="n">kproplog</span><span
class="o">.</span><span class="n">c</span>
</pre></div>
```

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<li class="toctree-l1"><a class="reference internal" href="formats/index.html">Protocols and file formats</a></li>
<li class="toctree-l1"><a class="reference internal" href="mitK5features.html">MIT Kerberos features</a></li>
<li class="toctree-l1"><a class="reference internal" href="build_this.html">How to build this documentation from
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Documentation</a></li>
<li class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
</ul>

```

```

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<h4>Search</h4>
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  <input type="text" name="q" size="18" />
  <input type="submit" value="Go" />
  <input type="hidden" name="check_keywords" value="yes" />
  <input type="hidden" name="area" value="default" />
</form>
</div>
<div class="clearer"></div>
</div>
</div>

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<div class="footer-wrapper">
  <div class="footer" >
    <div class="right" ><i>Release: 1.15.1</i><br />
      &copy; <a href="copyright.html">Copyright</a> 1985-2017, MIT.
    </div>
    <div class="left">

```

```

<a href="index.html" title="Full Table of Contents"
  >Contents</a> |
<a href="mitK5features.html" title="MIT Kerberos features"
  >previous</a> |
<a href="copyright.html" title="Copyright"
  >next</a> |
<a href="genindex.html" title="General Index"

```

```

    >index</a> |
    <a href="search.html" title="Enter search criteria"
    >Search</a> |
    <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
    </div>
  </div>
</div>

</body>
</html>
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<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

  <title>Copyright &mdash; MIT Kerberos Documentation</title>

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  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />

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      URL_ROOT:    './',
      VERSION:    '1.15.1',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE:  true
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
  <script type="text/javascript" src="_static/doctools.js"></script>
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  <link rel="copyright" title="Copyright" href="#" />
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  <link rel="up" title="MIT Kerberos License information" href="mitK5license.html" />
  <link rel="next" title="How to build this documentation from the source" href="build_this.html" />
  <link rel="prev" title="MIT Kerberos License information" href="mitK5license.html" />
</head>
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  <div class="header-wrapper">
    <div class="header">

```

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<div class="rel">

<a href="index.html" title="Full Table of Contents"
accesskey="C">Contents |
<a href="mitK5license.html" title="MIT Kerberos License information"
accesskey="P">previous |
<a href="build_this.html" title="How to build this documentation from the source"
accesskey="N">next |
<a href="genindex.html" title="General Index"
accesskey="I">index |
<a href="search.html" title="Enter search criteria"
accesskey="S">Search |
feedback
</div>
</div>
</div>

<div class="content-wrapper">
<div class="content">
<div class="document">

<div class="documentwrapper">
<div class="bodywrapper">
<div class="body">

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</div>

</div>
</div>
</div>
</div>
<div class="sidebar">
<h2>On this page</h2>

Copyright


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<br/>
<h2>Table of contents</h2>
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<li class="toctree-l1"><a class="reference internal" href="plugindev/index.html">For plugin module
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  <div class="left">
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  >next</a> |
<a href="genindex.html" title="General Index"
  >index</a> |
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<a href="search.html" title="Enter search criteria"
>Search</a> |
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
</div>
</div>
</div>
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```
</body>
</html>
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.. parsed-literal::

```
lib/gssapi/generic/gssapi_err_generic.et  
lib/gssapi/mechglue/g_accept_sec_context.c  
lib/gssapi/mechglue/g_acquire_cred.c  
lib/gssapi/mechglue/g_canon_name.c
```

lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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
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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:

.. 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/kproplog.c

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```
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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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1.81 libnetfilter_cttimeout-1.0.0-6.el7.x86_64.rpm 1.0.0-6 :el7

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```
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```

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```
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```

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```

```
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Ty Coon, President of Vice
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1.82 libnetfilter_queue-1.0.2- 2.el7_2.x86_64.rpm 1.0.2-2 :el7_2

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```
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1.83 libnfsidmap 0.25-19 :el7

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Marius Aamodt Eriksen <marius@umich.edu>
J. Bruce Fields <bfields@umich.edu>

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1.84 libnfsidmap 0.25-17 :el7-2

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1.85 libseccomp 2.3.1 :3.el7

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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Version 3, 29 June 2007

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1.93 mailcap 2.1.41 :2.e17

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* GSS-API Programming Guide
* Part No: 816-1331-11
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/*

* hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM

Category: Informational M. Bellare
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/*

```
* imap_gssapi.c is partially derived from sample code in:
* GSS-API Programming Guide
* Part No: 816-1331-11
* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.
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```
/* md5.h and md5.c are derived from RFC 1321:
```

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/*

* hmac.c is derived from:

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

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code

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

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*

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1.100 nfs-utils 1.3.0 :0.61.e17

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1.103 oci-register-machine 0

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1.104 oci-systemd-hook 0.1.14

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1.105 oci-systemd-hook 0.1.18

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<one line to give the program's name and a brief idea of what it does.>

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1.107 oci-umount 2.3.1 :2.gitbf16163.el7

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Version 3, 29 June 2007

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* lib/ovs.tmac in the source distribution, and manpages in the binaries, includes troff macros from groff 1.21 that contain the following notice:

```
.\ " an-ext.tmac
.\ "
.\ " Written by Eric S. Raymond <esr@thyrus.com>
.\ "      Werner Lemberg <wl@gnu.org>
.\ "
.\ " Version 2007-Feb-02
.\ "
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```
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lib/lldp/lldpd.c
lib/lldp/lldpd.h
lib/lldp/lldpd-structs.c
lib/lldp/lldpd-structs.h
lib/lldp/lldp.c
lib/lldp/lldp-tlv.h
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```

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sFlow Specification, located at
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References

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1.109 openvswitch 2.0.0-7 :el7

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xenserver/opt_xensource_libexec_InterfaceReconfigureBridge.py  
xenserver/opt_xensource_libexec_InterfaceReconfigureVswitch.py  
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sFlow Specification, located at
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References

1. <http://sflow.org/developers/specifications.php>

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.\"      Werner Lemberg <wl@gnu.org>
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lib/lldp/lldpd-structs.h
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The Standard is defined as the following:

sFlow Specification, located at
[1]<http://sflow.org/developers/specifications.php>

References

1. <http://sflow.org/developers/specifications.php>

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The Standard is defined as the following:

sFlow Specification, located at
[1] <http://sflow.org/developers/specifications.php>

References

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

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

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

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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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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From strings/apr_snprintf.c:

- *
- * cvt - IEEE floating point formatting routines.
- * Derived from UNIX V7, Copyright(C) Caldera International Inc.
- *

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

```
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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:

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

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

*
* cvt - IEEE floating point formatting routines.
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*

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1.113 patch 2.7.1 :10.e17_5

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Version 3, 29 June 2007

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1.118 python-cached_property 1.5.1-1 :el7

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1.119 python-docker-py 1.10.6 :3.el7

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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.e17

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1.123 python-http lib2 0.9.2-0.1 :el7

1.124 python-http lib2 0.9.2-1 :el7

1.125 python-ipaddress 1.0.16 :2.el7

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1.126 python-jmespath 0.9.0-1 :el7

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1.127 python-jmespath 0.9.0 :3.el7

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1.128 python-keyczar 0.71c-2 :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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1.134 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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for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)

Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)

Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])

by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088

for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)

Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk

[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS

15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;

Thu, 28 Aug 2008 01:45:02 +0100

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

Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net

designates 64.5.53.201 as permitted sender) identity=mailfrom;

client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;

helo=goedel.dlitz.net; mechanism=-all; envelope-from=dlitz@dlitz.net;

Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by

m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id

taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100

Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])

by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1

for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)

Received: by rivest.dlitz.net (Postfix, from userid 1000)

id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)

Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000);

Wed, 27 Aug 2008 20:42:54 -0400

Date: Wed, 27 Aug 2008 20:42:54 -0400

Cc: post@stamper.itconsult.co.uk

Subject: PyCrypto TSU NOTIFICATION

Message-ID: <20080828004254.GA31214@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

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=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);

preference=signencrypt

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

Status: O
Content-Length: 2182
Lines: 65

-----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. Litzengerger <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

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr
d+q0E7eE8VtnvviUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t
UNjJ/kv8QLz/aq2fi/HNjyrwnqFnUI0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq
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XYhY+HbrjsD741/GSpOt9IIN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/
W/pqSSiPkwmbhlPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==
=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.

Release from	Derived	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes

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. Litzenger" <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);

Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id D632D10111
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (vmmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)
Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])
by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105
for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000
Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
(envelope-sender <amk@amk.ca>)
by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP
for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000
Date: Sun, 23 Nov 2008 07:51:34 -0500
From: "A.M. Kuchling" <amk@amk.ca>
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
Message-ID: <20081123125134.GA21239@amk.local>
Reply-To: amk@amk.ca
References: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>
User-Agent: Mutt/1.5.13 (2006-08-11)
Status: RO
Content-Length: 537
Lines: 15

> 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. Litzenger" <dlitz@dlitz.net>
To: Mark Moraes <moraes@computer.org>

Subject: PyCrypto license clarification
Message-ID: <20090418131419.GA14494@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: 2635

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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dissemination and usage except those imposed by the laws of your
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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?

```
=====
```

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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 5D9AE984FDD

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=OvxqbYnCG7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-

Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;

b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3sEY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB2aU=

DomainKey-Signature:a=rsa-sha1; q=dns; c=noaws;

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=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj763caOAl08Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j eo=;

Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>

X-YMail-OSG:

FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY

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Hzf7Zbpa8P1Yoe_xSzf3OAgRSh5fCrBfCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X
onq8h_TmzX9g84Bin9g_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv_bj_Ghxw--
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Status: RO
X-Status: A
Content-Length: 3222

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. Litzenger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenger <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)
>
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> 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 dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>
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=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3677

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. Litzemberger <dlitz@dlitz.net> wrote:

>

>> From: Dwayne C. Litzemberger <dlitz@dlitz.net>

>> Subject: PyCrypto license clarification

>> To: "Mark Moraes" <moraes@computer.org>

>> Date: Saturday, April 18, 2009, 9:14 AM

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>> 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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>> rights are reserved.
>>
>> =====
>>

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

--
Dwayne C. Litzenger <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
Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenger 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?

>
>
> =

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> to exercise all rights associated with the contents of this file
> for

> any purpose whatsoever. No rights are reserved.

>

> =

> =====

>

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ
SH8AoLJgaq1Ili7/ZYDc+/Cd8VO0xLbr
=Mv6g

-----END PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <wiml@hnhh.org>

Subject: Re: PyCrypto license clarification

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

Cc: Wim Lewis <wiml@hnhh.org>

Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hnhh.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?

>

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> extent that dedication to the public domain is not available, everyone
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> 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 open source license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnA18UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FektbDOzkxgc5580MGGeX/MVn8aw+1BHg0YD85gsntIDzkcQtb+BR/xAvJ5zKyA
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKobx+/5+t1lJtBcZ
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. Litzenger" <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.

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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.
=====
```

Regards,
- Dwayne

--

Dwayne C. Litzengerger <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>; Tue, 5 May 2009 01:08:32 -0600 (CST)

Received: (vmmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600

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=smtp6.versatel.nl; client-ip=62.58.50.97

Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])

by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30 -0600 (CST)
Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000
Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
(envelope-sender <joris@bontje.nl>)
by 10.170.1.96 (qmail-ldap-1.03) with SMTP
for <>; 5 May 2009 07:08:25 -0000
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl
[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;
Tue, 05 May 2009 09:08:25 +0200
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
Date: Tue, 05 May 2009 09:08:25 +0200
From: joris@bontje.nl
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
References: <20090505024914.GA9219@rivest.dlitz.net>
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset=ISO-8859-1;
format="flowed"
Content-Disposition: inline
Content-Transfer-Encoding: 7bit
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)
Status: RO
X-Status: A
Content-Length: 3488

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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Regards,

Joris

Citeren "Dwayne C. Litzberger" <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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> --amk (www.amk.ca)

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>

> --

> Dwayne C. Litzenger <dlitz@dlitz.net>

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

From dlitz@dlitz.net Tue May 5 17:53:47 2009

Date: Tue, 5 May 2009 17:53:47 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: joris@bontje.nl

Subject: Re: PyCrypto license clarification

Message-ID: <20090505215347.GB9933@rivest.dlitz.net>

References: <20090505024914.GA9219@rivest.dlitz.net>

<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>

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=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);

preference=signencrypt

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 3863

Excellent! Thank you!

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

> Hi Dwayne,

>

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>> =====

>>

>> Regards,

>> - Dwayne

>>

>> --

>> Dwayne C. Litzenger <dlitz@dlitz.net>

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

>

>

--

Dwayne C. Litzenger <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

From dlitz@dlitz.net Sun Aug 2 21:48:25 2009

Date: Sun, 2 Aug 2009 21:48:25 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Paul Swartz <paulswartz@gmail.com>

Subject: PyCrypto license clarification

Message-ID: <20090803014825.GA1326@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: 2631

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/>.

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, Joris Bontje, and Mark
Moraes, and they have all approved the following dedication for their
contributions.

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. Litzemberger <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

Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in
'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -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
:from:date:message-id:subject:to:content-type
:content-transfer-encoding;
bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;
b=gyTqkRhKIHadFKIZCBWsRbnMNVDq1PWIJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac
Vn55qllqTdom4e9zIUUE6MwZo9kqi/Qw0L/Slib0DIQeNqo/eHYqPmuVswltaYwNAyMJ
Y9++76rPGzqYdALsfvsmwv7Q3/bEmjVTr0tQE=
DomainKey-Signature: a=rsa-sha1; c=noaws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:from:date:message-id:subject:to
:content-type:content-transfer-encoding;
b=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyyig3EfT6Nv6
Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NwIeEWJnG3xcliRQu/mXPFP8AzPI3CefL
1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=
MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,
03 Aug 2009 09:14:03 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
From: Paul Swartz <paulswartz@gmail.com>
Date: Mon, 3 Aug 2009 12:13:43 -0400
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
Status: RO
X-Status: A
Content-Length: 1450

<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: 8bit
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
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=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzengerger<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. May I, on your behalf, dedicate to the public

>> domain all your contributions to PyCrypto, with the following notice?

>>

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>> 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. Litzengerger <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

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@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: 2535

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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=====
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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====

Regards,
- Dwayne

--

Dwayne C. Litzenger <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: (vmmailmgr-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.slv-ubr2.lnh-slv.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. Litzenger <dlitz@dlitz.net>

In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>

Content-Type: text/plain; charset=US-ASCII; format=flowed; delpsp=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)

X-Mailer: Apple Mail (2.930.3)

Status: RO

Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=

> working on a new release at <http://www.pycrypto.org/>.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=

> on your behalf, dedicate to the public domain all your contributions =20=

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,

Barry

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk
evkInSJQAcVHIznVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9IIet7PaD9VSYgn3ra5
gElwI2DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjwDRA3wItOrH7
SK4w9VBJtfY=3D
=3DQduY

-----END PGP SIGNATURE-----

From dlitz@dlitz.net Sat Feb 28 23:24:14 2009

Date: Sat, 28 Feb 2009 23:24:14 -0500

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Jeethu Rao <jeethurao@gmail.com>

Subject: PyCrypto license clarification

Message-ID: <20090301042414.GA15122@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: 2513

Hi Jeethu,

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=====

Regards,

- Dwayne

--

Dwayne C. Litzenger <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 0CC83515D9

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

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 k29so1252333rvb.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/ksRqukHwaOZyJQBUs4Yvt5mI20U6mI/g=;

b=oMjI22IIXYiJKge2zNjW3rRiUi9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY

B5E6VQuGVEyzBbNscTYVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas

L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=

DomainKey-Signature: a=rsa-sha1; c=noaws;

d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:date:message-id:subject:from:to

:content-type;

b=Ym7CStuDEFJKay1AJyWzkZmJA1lnTcwCG6akBHAXLld8ht6PFcmIsffzZG8hJCIVJ8

vIjqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrS24zikHfpSSd5GFogzXaLVvGVH8p

bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=

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

Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054
Status: RO
Content-Length: 7668

--000e0cd209d0e5a3d40464a23054
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

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. Litzenger <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/>.

>

> People often ask me what license PyCrypto is covered by, if it's
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> =====

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> (though that would be nice).

>

> --amk (www.amk.ca)

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> =====

>
> Regards,
> - Dwayne

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

--
Jeethu Rao

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

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<div class="gmail_quote">On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzengerger dlitz@dlitz.net wrote:

<blockquote class="gmail_quote" style="margin:0 0 0 .8ex;border-left:1px solid; padding-left: 1ex;">Hi Jeethu,

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--amk
www.amk.ca

work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

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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## 1.137 python2-docopt 0.6.2-7 :el7

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## 1.140 python2-passlib 1.6.5-1 :el7

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converted to python May 2008

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---

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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

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-----

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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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## 1.146 python3-idna 2.7-1 :el7

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## 1.151 python3-urllib3 1.19.1-4 :el7

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# Contributions to the urllib3 project

## Creator & Maintainer

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## ## Contributors

In chronological order:

- \* victor.vde <<http://code.google.com/u/victor.vde/>>
  - \* HTTPS patch (which inspired HTTPSConnectionPool)
  
- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
  - \* NTLM-authenticated HTTPSConnectionPool
  - \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
  
- \* niphlod <niphlod@gmail.com>
  - \* Client-verified SSL certificates for HTTPSConnectionPool
  - \* Response gzip and deflate encoding support
  - \* Better unicode support for filepost using StringIO buffers
  
- \* btoconnor <brian@btoconnor.net>
  - \* Non-multipart encoding for POST requests
  
- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
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  - \* Corrected multipart behavior for params
  
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  - \* Support for TLS SNI
  - \* 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@ravello systems.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@elastic hosts.com>
- \* Fixed a race condition
  
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- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <<http://dbrgn.ch/>>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module

- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  - \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
  - \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
  - \* HTTPHeaderDict and associated tests and docs
  - \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
  - \* Added Timeout examples in docs
  
- \* Arthur Grunseid <http://grunseid.com>
  - \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
  - \* PEP8 Compliance and Linting
  - \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
  - \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
  - \* Google App Engine documentation
  
- \* Aaron Meurer <asmeurer@gmail.com>
  - \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
  - \* Bugfixes
  
- \* Benjamin 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 <tomecek@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@gmail.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](mailto:jeremy@jcline.org)>
  - \* Added connection pool keys by scheme
  
  - \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
  - \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.
  
  - \* Nate Prewitt <[nate.prewitt@gmail.com](mailto: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.
  
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  - \* [Brief summary of your changes]
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## 1.152 python3-websocket-client 0.47.0-1 :el7

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History and License

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History of the software

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

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

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

specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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.

| Release        | Derived from | Year      | Owner      | GPL compatible? |
|----------------|--------------|-----------|------------|-----------------|
| 0.9.0 thru 1.2 | n/a          | 1991-1995 | CWI        | yes             |
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| 1.6            | 1.5.2        | 2000      | CNRI       | no              |
| 2.0            | 1.6          | 2000      | BeOpen.com | no              |
| 1.6.1          | 1.6          | 2001      | CNRI       | no              |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no              |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes             |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes             |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes             |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes             |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes             |

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Mersenne Twister

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

the verbatim comments from the original code::

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

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

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<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

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

:func:`getnameinfo`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-----  
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Select kqueue

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SipHash24

-----

The file `:file:`Python/pyhash.c`` contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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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](https://github.com/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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-----

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

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

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

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| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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## 1.160 socat 1.7.3.2 :2.e17

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## 1.162 star 1.5.2

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

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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 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
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

# 1.165 tzdata 2.018 :el7

## 1.165.1 Available under license :

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If the files date.c, newstrftime.3, and strftime.c are present, they contain material derived from BSD and use the BSD 3-clause license.

# 1.166 tzdata 2017b-1 :el6

## 1.166.1 Available under license :

With a few exceptions, all files in the tz code and data (including this one) are in the public domain. The exceptions are date.c, newstrftime.3, and strftime.c, which contain material derived from BSD and which use the BSD 3-clause license.

# 1.167 yajl 2.0.4 :4.el7

## 1.167.1 Available under license :

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