



OPNFV MOON configuration guide

Release draft (51a65a7)

OPNFV

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INTRODUCTION

Moon must be configured through the standard Keystone configuration files and the standard KeystoneMiddleware configuration files: * /etc/keystone/keystone-paste.ini * /etc/keystone/keystone.conf * /etc/nova/api-paste.ini * /etc/swift/proxy-server.conf

There is no other custom configuration file.

CONFIGURATION

2.1 Keystone

For Keystone, the following files must be configured, some modifications may be needed, specially passwords:

`/etc/keystone/keystone-paste.ini`

```
sudo cp /etc/keystone/keystone-paste.ini /etc/keystone/keystone-paste.ini.bak
sudo sed "3i[pipeline:moon_pipeline]\npipeline = sizelimit url_normalize request_id build_auth_context\n" /etc/keystone/keystone-paste.ini
sudo cp /tmp/keystone-paste.ini /etc/keystone/keystone-paste.ini
sudo sed "s/use = egg:Paste#urlmap/use = egg:Paste#urlmap\n\n/moon = moon_pipeline/" /etc/keystone/keystone-paste.ini
sudo cp /tmp/keystone-paste.ini /etc/keystone/keystone-paste.ini
```

`/etc/keystone/keystone.conf`

```
cat << EOF | sudo tee -a /etc/keystone/keystone.conf
[moon]

# Configuration backend driver
configuration_driver = keystone.contrib.moon.backends.memory.ConfigurationConnector

# Tenant backend driver
tenant_driver = keystone.contrib.moon.backends.sql.TenantConnector

# Authorisation backend driver
authz_driver = keystone.contrib.moon.backends.flat.SuperExtensionConnector

# IntraExtension backend driver
intraextension_driver = keystone.contrib.moon.backends.sql.IntraExtensionConnector

# InterExtension backend driver
interextension_driver = keystone.contrib.moon.backends.sql.InterExtensionConnector

# Logs backend driver
log_driver = keystone.contrib.moon.backends.flat.LogConnector

# Local directory where all policies are stored
policy_directory = /etc/keystone/policies

# Local directory where Root IntraExtension configuration is stored
root_policy_directory = policy_root

# URL of the Moon master
master = 'http://localhost:35357/'
```

```
# Login of the Moon master
master_login = 'admin'

# Password of the Moon master
master_password = 'nomoresecrete'
EOF
```

The logging system must be configured :

```
sudo mkdir /var/log/moon/
sudo chown keystone /var/log/moon/

sudo addgroup moonlog

sudo chgrp moonlog /var/log/moon/

sudo touch /var/log/moon/keystonemiddleware.log
sudo touch /var/log/moon/system.log

sudo chgrp moonlog /var/log/moon/keystonemiddleware.log
sudo chgrp moonlog /var/log/moon/system.log
sudo chmod g+rw /var/log/moon
sudo chmod g+rw /var/log/moon/keystonemiddleware.log
sudo chmod g+rw /var/log/moon/system.log

sudo adduser keystone moonlog
sudo adduser swift moonlog
sudo adduser nova moonlog
```

The Keystone database must be updated:

```
sudo /usr/bin/keystone-manage db_sync
sudo /usr/bin/keystone-manage db_sync --extension moon
```

And, Apache must be restarted:

```
sudo systemctl restart apache.service
```

2.2 Nova

In order to Nova to be able to communicate with Keystone-Moon, you must update the Nova KeystoneMiddleware configuration file. To achieve this, a new filter must be added in */etc/nova/api-paste.ini* and this filter must be added to the composite data. The filter is:

```
[filter:moon]
paste.filter_factory = keystonemiddleware.moon_agent:filter_factory
authz_login=admin
authz_password=password
logfile=/var/log/moon/keystonemiddleware.log
```

Here is some bash lines to insert this into the Nova configuration file:

```
sudo cp /etc/nova/api-paste.ini /etc/nova/api-paste.ini.bak2
sudo sed "/^keystone = / s/keystonecontext/keystonecontext moon/" /etc/nova/api-paste.ini > /tmp/api-
sudo cp /tmp/api-paste.ini /etc/nova/api-paste.ini

echo -e "\n[filter:moon]\npaste.filter_factory = keystonemiddleware.moon_agent:filter_factory\nauthz_
```


Nova can then be restarted:

```
for service in nova-compute nova-api nova-cert nova-conductor nova-consoleauth nova-scheduler ; do
    sudo service ${service} restart
done
```

2.3 Swift

In order for Swift to be able to communicate with Keystone-Moon, you must update the Swift KeystoneMiddleware configuration file. To achieve this, a new filter must be added in */etc/swift/proxy-server.conf* and this filter must be added to the composite data. The filter is (exactly the same as Nova):

```
[filter:moon]
paste.filter_factory = keystonemiddleware.moon_agent:filter_factory
authz_login=admin
authz_password=password
logfile=/var/log/moon/keystonemiddleware.log
```

Here is some bash lines to insert this into the Nova configuration file:

```
sudo cp /etc/swift/proxy-server.conf /etc/swift/proxy-server.conf.bak2
sudo sed "/^pipeline = / s/proxy-server/moon proxy-server/" /etc/swift/proxy-server.conf > /tmp/proxy-server.conf
sudo cp /tmp/proxy-server.conf /etc/swift/proxy-server.conf

echo -e "\n[filter:moon]\npaste.filter_factory = keystonemiddleware.moon_agent:filter_factory\nauthz_login=admin\nauthz_password=password\nlogfile=/var/log/moon/keystonemiddleware.log"
```

Swift can then be restarted:

```
for service in swift-account swift-account-replicator \
    swift-container-replicator swift-object swift-object-updater \
    swift-account-auditor swift-container swift-container-sync \
    swift-object-auditor swift-proxy swift-account-reaper swift-container-auditor \
    swift-container-updater swift-object-replicator ; do
    sudo service ${service} status
done
```

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