

## Ctrl Node

```
yum install openstack-dashboard
```

```
/etc/openstack-dashboard/local_settings

159 OPENSTACK_HOST = "ctrl.blue.edu"
28 ALLOWED_HOSTS = ['one.example.com', 'two.example.com', '*']

SESSION_ENGINE = 'django.contrib.sessions.backends.cache'
CACHES = {
    'default': {
        'BACKEND': 'django.core.cache.backends.memcached.MemcachedCache',
        'LOCATION': 'base.blue.edu:11211',
    }
}

OPENSTACK_KEYSTONE_URL = "http://%s:5000/v3" % OPENSTACK_HOST

OPENSTACK_KEYSTONE_MULTIDOMAIN_SUPPORT = True

OPENSTACK_API_VERSIONS = {
    "identity": 3,
    "image": 2,
    "volume": 2,
}

73 OPENSTACK_KEYSTONE_DEFAULT_DOMAIN = "default"
161 OPENSTACK_KEYSTONE_DEFAULT_ROLE = "user"

OPENSTACK_NEUTRON_NETWORK = {
    'enable_router': False,
    'enable_quotas': False,
    'enable_distributed_router': False,
    'enable_ha_router': False,
    'enable_lb': False,
    'enable_firewall': False,
    'enable_vpnservice': False,
    'enable_fip_topology_check': False,
}

TIME_ZONE = "TIME_ZONE"
```

```
cp /etc/openstack-dashboard/local_settings /etc/openstack-dashboard/local_setting
s.ds.bak

sed -i 's/OPENSTACK_HOST = "127.0.0.1"/OPENSTACK_HOST = "ctrl.blue.edu"/g' /etc/op
enstack-dashboard/local_settings

sed -i "s/ALLOWED_HOSTS = \['horizon.example.com', 'localhost'\]/ALLOWED_HOSTS = \
[ '*' ]/g" /etc/openstack-dashboard/local_settings

sed -i "s/http://\%\s:5000/v2.0/http://\%\s:5000/v3/g" /etc/openstack-dashboard/
local_settings

sed -i "s/#OPENSTACK_KEYSTONE_MULTIDOMAIN_SUPPORT = False/OPENSTACK_KEYSTONE_MULTI
DOMAIN_SUPPORT = True/g" /etc/openstack-dashboard/local_settings

sed -i "s/#OPENSTACK_KEYSTONE_DEFAULT_DOMAIN/OPENSTACK_KEYSTONE_DEFAULT_DOMAIN/
g" /etc/openstack-dashboard/local_settings

sed -i 's/OPENSTACK_KEYSTONE_DEFAULT_ROLE = "_member_"/OPENSTACK_KEYSTONE_DEFAULT_
ROLE = "user"/g' /etc/openstack-dashboard/local_settings

sed -i "s/'enable_router': True,'enable_router': False,/g" /etc/openstack-dashboa
rd/local_settings
sed -i "s/'enable_ipv6': True,'enable_ipv6': False,/g" /etc/openstack-dashboard/l
ocal_settings
sed -i "s/'enable_ha_router': True,'enable_ha_router': False,/g" /etc/openstack-d
ashboard/local_settings
sed -i "s/'enable_lb': True,'enable_lb': False,/g" /etc/openstack-dashboard/local
_settings
sed -i "s/'enable_firewall': True,'enable_firewall': False,/g" /etc/openstack-das
hboard/local_settings
sed -i "s/'enable_vpn': True,'enable_vpn': False,/g" /etc/openstack-dashboard/loc
al_settings
sed -i "s/'enable_fip_topology_check': True,'enable_fip_topology_check': False,/g
" /etc/openstack-dashboard/local_settings

echo -e "SESSION_ENGINE = 'django.contrib.sessions.backends.cache'\nCACHE
S = {\n    'default': {\n        'BACKEND': 'django.core.cache.backends.memcached.Memcac
hedCache',\n        'LOCATION': 'base.blue.edu:11211',\n    }\n}" >> /etc/openstack-dash
board/local_settings

echo -e "OPENSTACK_API_VERSIONS = {\n    \"identity\": 3,\n    \"image\": 2,\n    \"volu
me\": 2,\n}" >> /etc/openstack-dashboard/local_settings
```

```
systemctl restart httpd.service memcached.service
```

```
http://192.168.1.91/dashboard
```

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## HTTPS

```
yum install mod_ssl -y
```

```
/etc/openstack-dashboard/local_settings
```

```
USE_SSL = True  
CSRF_COOKIE_SECURE = True  
SESSION_COOKIE_SECURE = True  
SESSION_COOKIE_HTTPONLY = True
```

```
echo -e "USE_SSL = True\nCSRF_COOKIE_SECURE = True\nSESSION_COOKIE_SECURE = True\nSESSION_COOKIE_HTTPONLY = True" /etc/openstack-dashboard/local_settings
```

```
/etc/httpd/SSL
```

```
openssl genrsa -des3 -out web.key 1024  
openssl rsa -in web.key -out web.key  
chmod 400 web.key  
openssl req -new -x509 -days 3650 -key web.key -out web.crt
```

```
cp /etc/httpd/conf.d/openstack-dashboard.conf /etc/httpd/conf.d/openstack-dashboard.conf.ds.bak
```

```

<VirtualHost *:80>
    ServerName ctrl.blue.edu
    <IfModule mod_rewrite.c>
        RewriteEngine On
        RewriteCond %{HTTPS} off
        RewriteRule (.*) https:// %{HTTP_HOST}%{REQUEST_URI}
    </IfModule>

    <IfModule !mod_rewrite.c>
        RedirectPermanent / https://ctrl.blue.edu
    </IfModule>
</VirtualHost>

<VirtualHost *:443>
    ServerName ctrl.blue.edu
    SSLEngine On
    SSLCertificateFile /etc/httpd/SSL/web.crt
    SSLCACertificateFile /etc/httpd/SSL/web.crt
    SSLCertificateKeyFile /etc/httpd/SSL/web.key
    SetEnvIf User-Agent ".*MSIE.*" nokeepalive ssl-unclean-shutdown

    Header add Strict-Transport-Security "max-age=15768000"

    WSGIScriptAlias /dashboard /usr/share/openstack-dashboard/openstack_dashboard/wsgi/django.wsgi
    WSGIDaemonProcess horizon user=apache group=apache processes=3 threads=10
    Alias /dashboard/static /usr/share/openstack-dashboard/static

    WSGIDaemonProcess dashboard
    WSGIProcessGroup dashboard
    #WSGISocketPrefix run/wsgi

<Directory /usr/share/openstack-dashboard/openstack_dashboard/wsgi>
    Options All
    AllowOverride All
    Require all granted
</Directory>

<Directory /usr/share/openstack-dashboard/static>
    Options All
    AllowOverride All
    Require all granted
</Directory>
</VirtualHost>

```