

# Verify Keystone Identity Service

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# Objectives



**Keystone Identity Service**

**Versioning in OpenStack**

**Apache WSGI Module**

**Service Endpoints**



# Keystone Services



**Authentication: Credentials**

**Authorization: Tokens**

**Catalog: Endpoint registry**

**Resourcing: Data on projects**

**Assignment: Role assignment**

**Policies: Rule based management**



# OpenStack Versioning

Prior to Liberty

**Date based versioning: 2015.1**

Liberty Onwards

**Standard versioning: 8.0.1**



```
# keystone-manage --version
```

# Discover Keystone Version



# Keystone Version

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```
# systemctl status openstack-keystone  
# head /etc/httpd/conf.d/10-keystone_wsgi_main.conf  
# head /etc/httpd/conf.d/10-keystone_wsgi_admin.conf
```

## Apache Module

**In the Liberty and later releases the openstack-keystone service is disabled and requests are serviced using the WSGI module in Apache.**



# Keystone Ports

Admin

Main

**Port 35357**

**Port 5000**





```
# source adminrc  
# openstack endpoint list  
# openstack endpoint show <keystone id>
```

## Discovering Keystone

**Keystone itself acts as a service registry listing what services are available in the OpenStack Cloud. We can list the properties of the Keystone endpoint**



```
# sed -i 's/^verbose\s*=\s*True/verbose = False/' \
/etc/keystone/keystone.conf

# systemctl restart httpd

# grep '^connection' /etc/keystone/keystone.conf
```

## Keystone Configuration

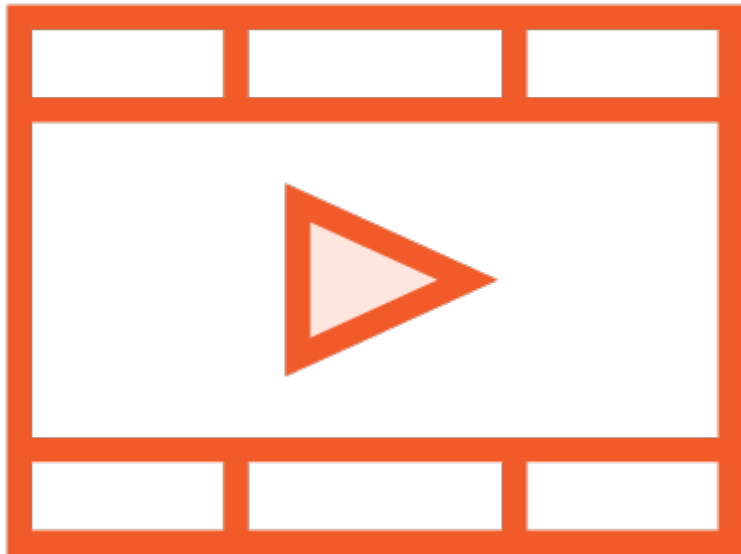
Again we will disable INFO logging from the keystone.conf. We can also view the connection details to the database.



# Keystone Configuration

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**Identified Keystone:** Provides 6 services to OpenStack - Authentication, Authorization, Catalog, Resourcing, Assignment and Profiles

**Apache Module:** wsgi

**Admin Endpoint:** 35357

**Public Endpoint:** 5000

**Version:** keystone-manage --version



Next up: Verify Glance and  
Cinder Services

