

# Your Identity and the Command Line

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# Overview



**OpenStack identity: Users and Projects**

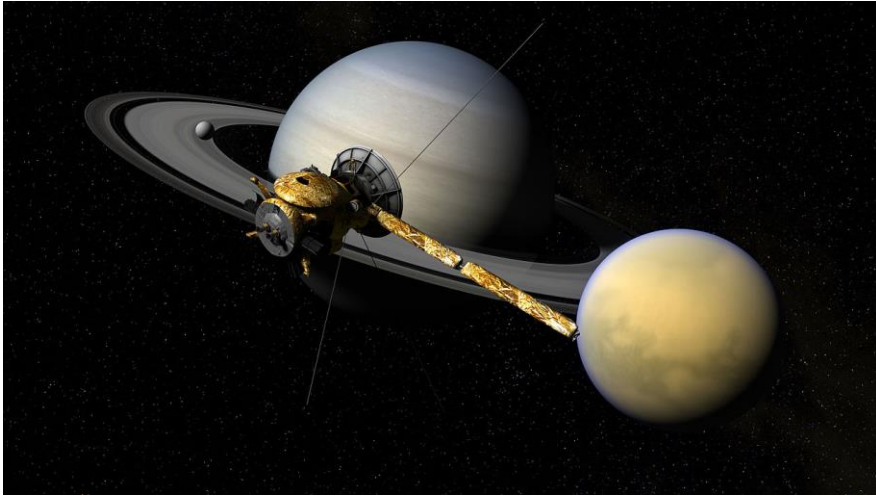
**Command line clients**

**A few commands**

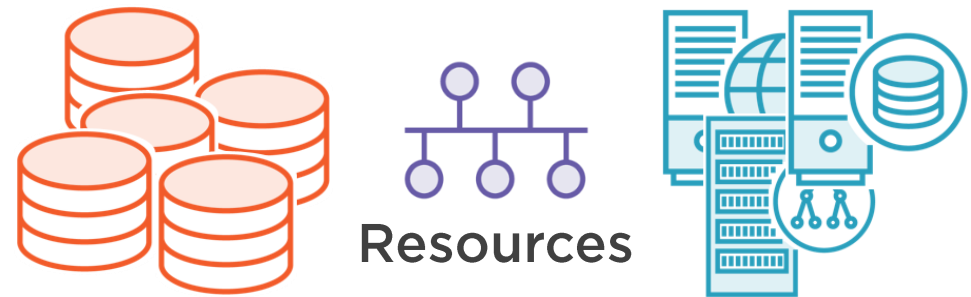
**How to authenticate**



# Identity Concepts - Projects



Project



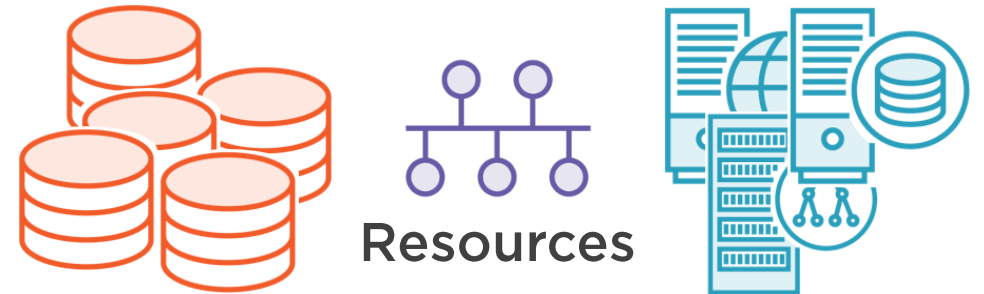
# Identity Concepts - Domains



Domain



Domain  
Admin

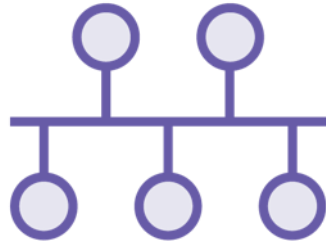


# Command Line Clients



**Nova Client**

**\$ nova list**



**Neutron Client**

**\$ neutron net-list**



**Cinder Client**

**\$ cinder delete**



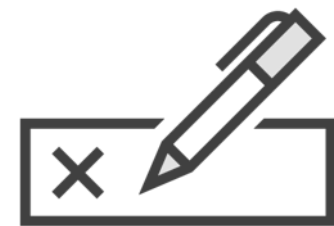
**Swift Client**

**\$ swift download**



**Glance Client**

**\$ glance image-show**



**Keystone Client**

**\$ keystone tenant-update**



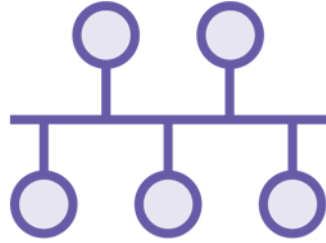
# The OpenStack Client



\$ nova list



\$ swift download



\$ neutron net-create

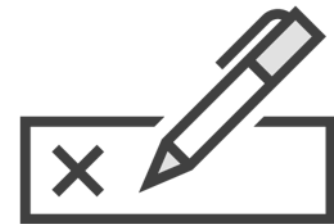
\$ openstack server list  
\$ openstack network create  
\$ openstack volume delete  
\$ openstack object save  
\$ openstack image show  
\$ openstack project set



\$ glance image-show



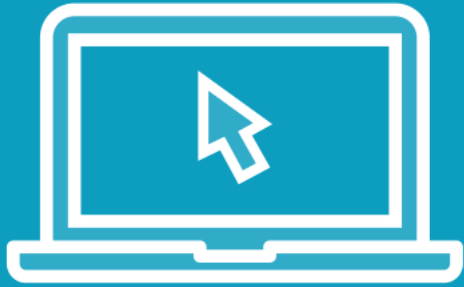
\$ cinder delete



\$ keystone tenant-update



# Demo



**Command-Line reference  
and learning resources**



# Command Examples

```
$ openstack help  
$ openstack help server  
$ openstack help server list  
$ cinder help  
$ cinder help create  
  
$ openstack server list -c Name -c Status  
  
$ openstack server list -f value
```

column


Format: table, csv,  
yaml, json, value





# Proving Your Identity

192.168.1.203/dashboard



openstack  
DASHBOARD

Log In

User Name

Password

Connect

*user name, password*  
*project, domain*

HTTP →

*token*

← 4623c0f921c645a390e2ecd4e8e4a84f

*token and command*

→ 4623c0f921c645a390e2ecd4e8e4a84f,  
list servers



Keystone

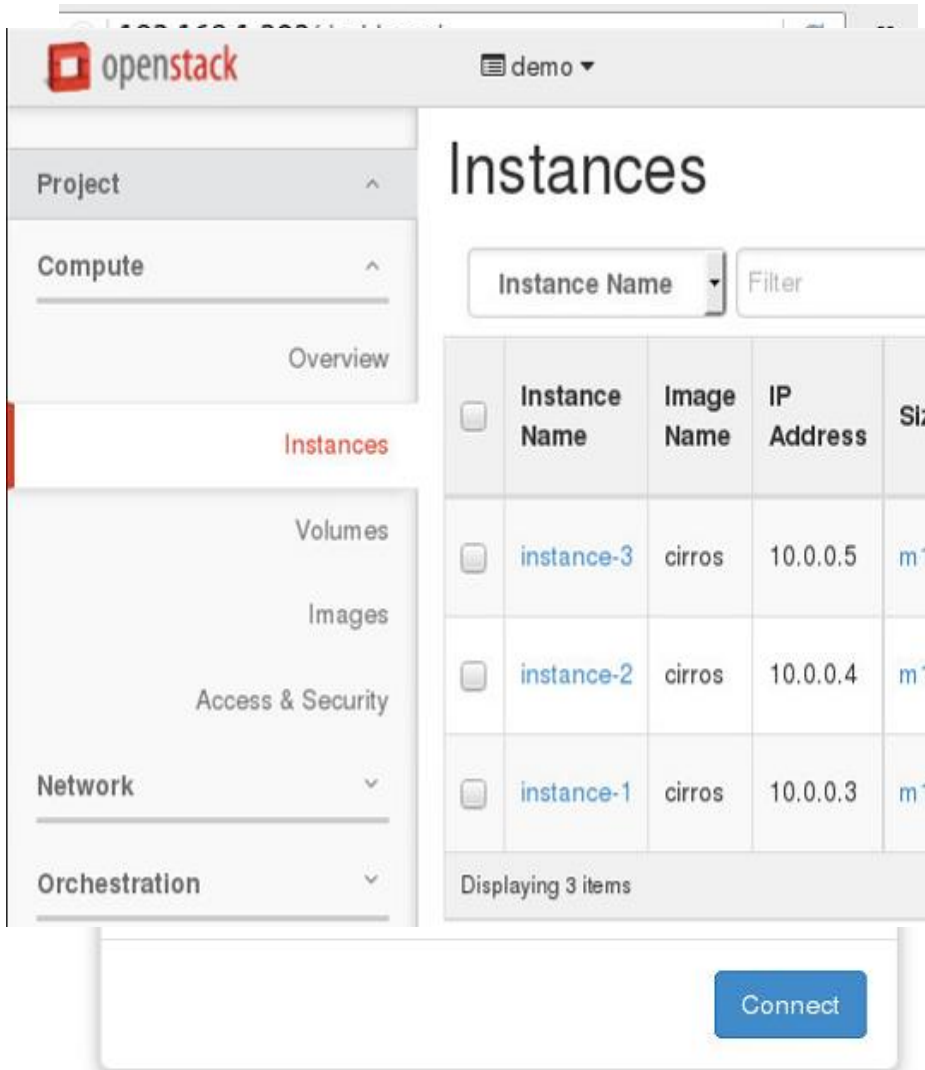
←  
*validate token*



Nova



# Proving Your Identity



*user name, password*

*project, domain*

HTTP →

*token*

4623c0f921c645a390e2ecd4e8e4a84f

*token and command*

4623c0f921c645a390e2ecd4e8e4a84f,  
list servers

*list of servers*



Keystone

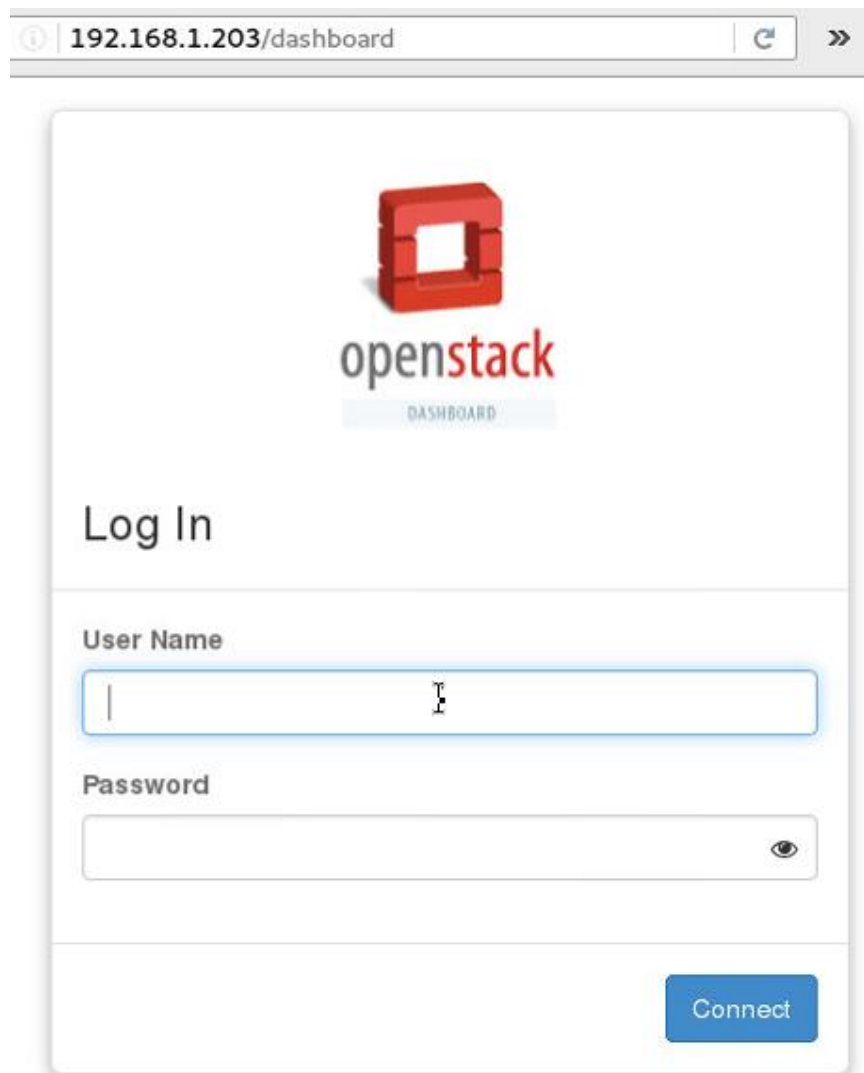
*validate token*




Nova



# The Service Catalog



192.168.1.203/dashboard

  
openstack  
DASHBOARD

Log In

User Name

Password

Connect

user name, password  
project, domain

HTTP →



Keystone

Service	Endpoint
Keystone	http://192.168.1.203:5000/v3
Nova	http://192.168.1.203:8774/v2.1/...
Neutron	http://192.168.1.203:9696
....	....



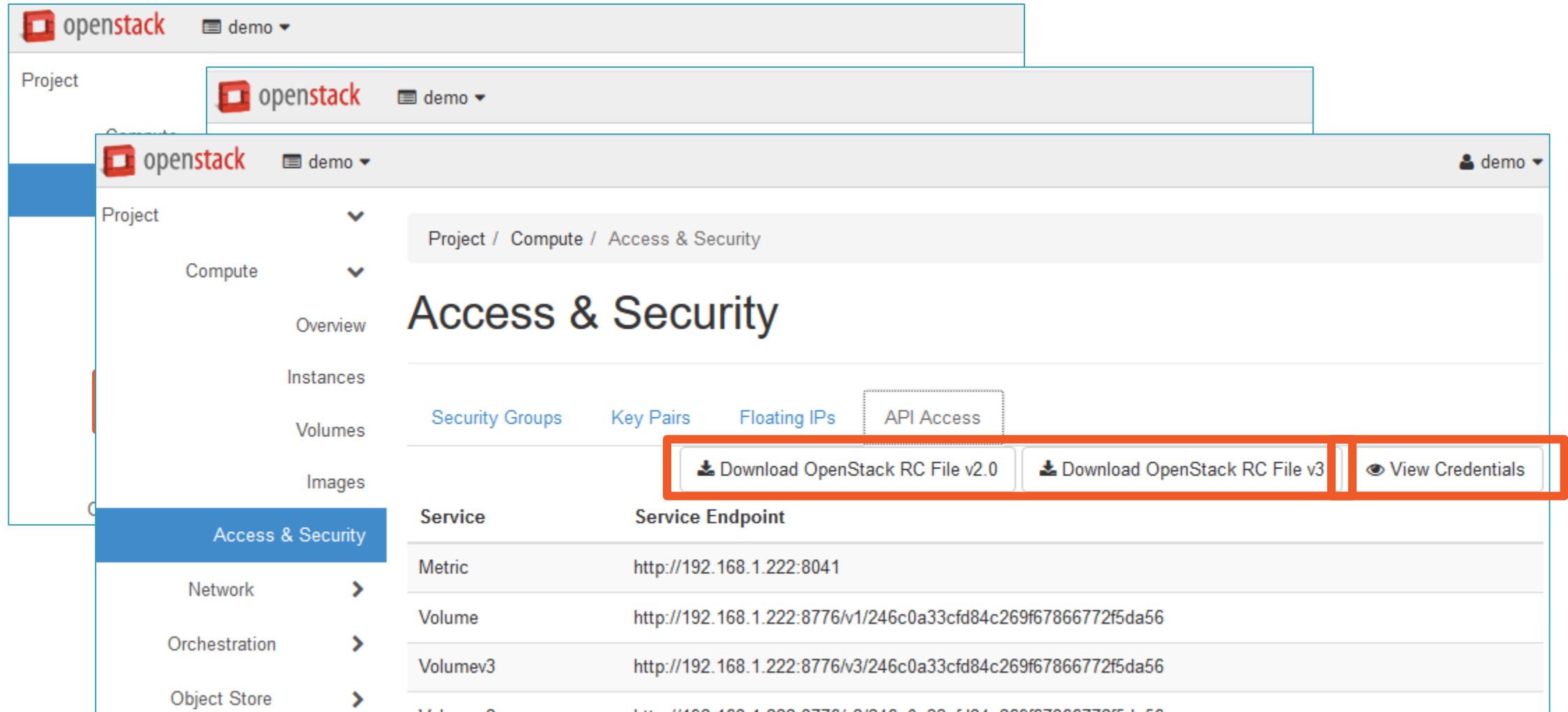
## And the Command Line?

```
$ openstack --os-username demo --os-password pw \
  --os-identity-api-version 3 \
  --os-user-domain-name Default --os-project-name demo \
  --os-auth-url http://192.168.1.222:5000/v3 \
  server list
```

```
$ export OS_USERNAME=demo
$ export OS_PASSWORD=pw
$ export OS_USER_DOMAIN_NAME=Default
$ export OS_PROJECT_NAME=demo
$ export OS_AUTH_URL=http://192.168.1.222:5000/v3
$ openstack server list
```



# How To Set Your Environment



The screenshot displays the OpenStack dashboard interface. The top navigation bar shows the OpenStack logo and a 'demo' dropdown menu. The left sidebar contains a navigation menu with options like Project, Compute, Overview, Instances, Volumes, Images, Access & Security (highlighted), Network, Orchestration, and Object Store. The main content area is titled 'Access & Security' and includes a breadcrumb trail 'Project / Compute / Access & Security'. Below the title are tabs for 'Security Groups', 'Key Pairs', 'Floating IPs', and 'API Access'. The 'API Access' tab is selected, revealing three buttons: 'Download OpenStack RC File v2.0', 'Download OpenStack RC File v3', and 'View Credentials'. These buttons are highlighted with a red rectangular box. Below the buttons is a table listing service endpoints.

Service	Service Endpoint
Metric	http://192.168.1.222:8041
Volume	http://192.168.1.222:8776/v1/246c0a33cfd84c269f67866772f5da56
Volumev3	http://192.168.1.222:8776/v3/246c0a33cfd84c269f67866772f5da56



# Summary



## Command line clients

- Service-specific: nova, neutron etc.
- The openstack command line client

## Authentication on the command line

- With command line options
- With shell environment variables
- From an RC file