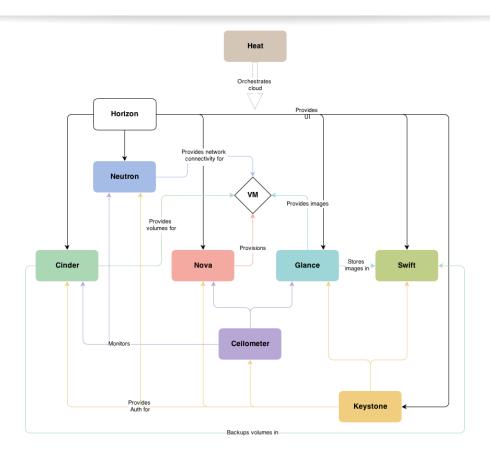
OpenStack Identity Service

Codename: Keystone



Keystone Overview





Keystone Concepts



Role



User



Credentials



Endpoint



Authentication









Keystone Concepts: User

User



Person



System



Service



Keystone Concepts: Credentials

Credentials









Keystone Concepts: Authentication

Authentication





Keystone Concepts: Token

Token





Keystone Concepts: Tenant / Project

Tenant / Project





Keystone Concepts: Service

Service





Keystone Concepts: Endpoint

Endpoint





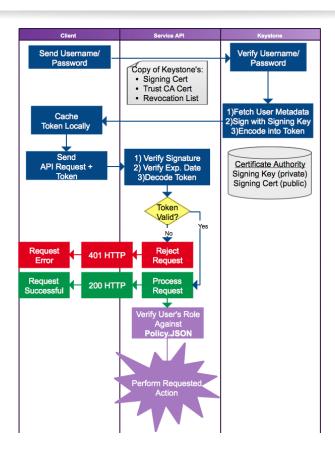
Keystone Concepts: Role

Role





Keystone Operations Overview





API v2 Sample Org Structure

Project1: Biology

User1: JohnB

Role1: Sysadmin

User2: LisaD

Role2: Engineer

Project2: Aerospace

User3: SandraD

Role1: Sysadmin

User4: MarkF

Role3: Project Mgr

Project3: Comp Sci

User1: JohnB

Role1: Sysadmin

User3: SandraD

Role4: Support

User5: MichaelR

Role2: Engineer



Keystone v3 API

The Keystone v3 API is included with OpenStack Havana & Icehouse but the Python-KeystoneClient does not expose v3 functionality at this time.

Any interaction with the v3 API needs to be done directly via curl or the new Python-OpenstackClient. The term **tenant** is now officially replaced with **project**.

The Keystone v3 API introduces three significant Keystone features/concepts:

- Domains
- Groups
- Federation Authentication



Keystone v3 Domains

Domain1: TX Robotics Ctr

Project1: Biology

Project2: Aerospace

Project3: CompSci

Domain2: CA Robotics Ctr

Project1: Biology

Project2: Aerospace

Project3: CompSci

Domain3: NY Robotics Ctr

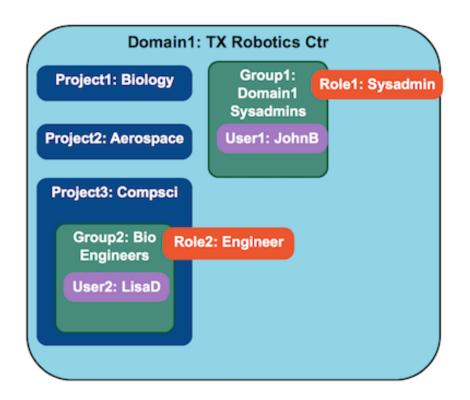
Project1: Biology

Project2: Aerospace

Project3: CompSci



Keystone v3 Groups





Populating Authentication Data

Add Tenants / Projects:

```
keystone tenant-create --name MyProject
keystone tenant-list
```

Add Users:

```
keystone user-create --tenant-id <UUID> --name myuser --pass mypassword keystone user-list
```

• Add Roles:

```
keystone role-create --name Admin
keystone role-create --name Member
keystone role-list
```

Grant Roles:

```
keystone user-role-add --user <UUID> --tenant_id <UUID> --role <UUID>
```



Populating Service Catalog

Add Services:

```
keystone service-create \
--name keystone \
--type identity \
--description "Keystone Identity Service"
keystone service-list
```

Add Endpoints:

```
keystone endpoint-create \
--region RegionOne \
--service_id <UUID> \
--public_url "http://174.143.194.225:5000/v2.0" \
--internal_url "http://192.168.100.200:5000/v2.0" \
--admin_url "http://192.168.100.200:35357/v2.0"

keystone endpoint-list
```



Questions?

