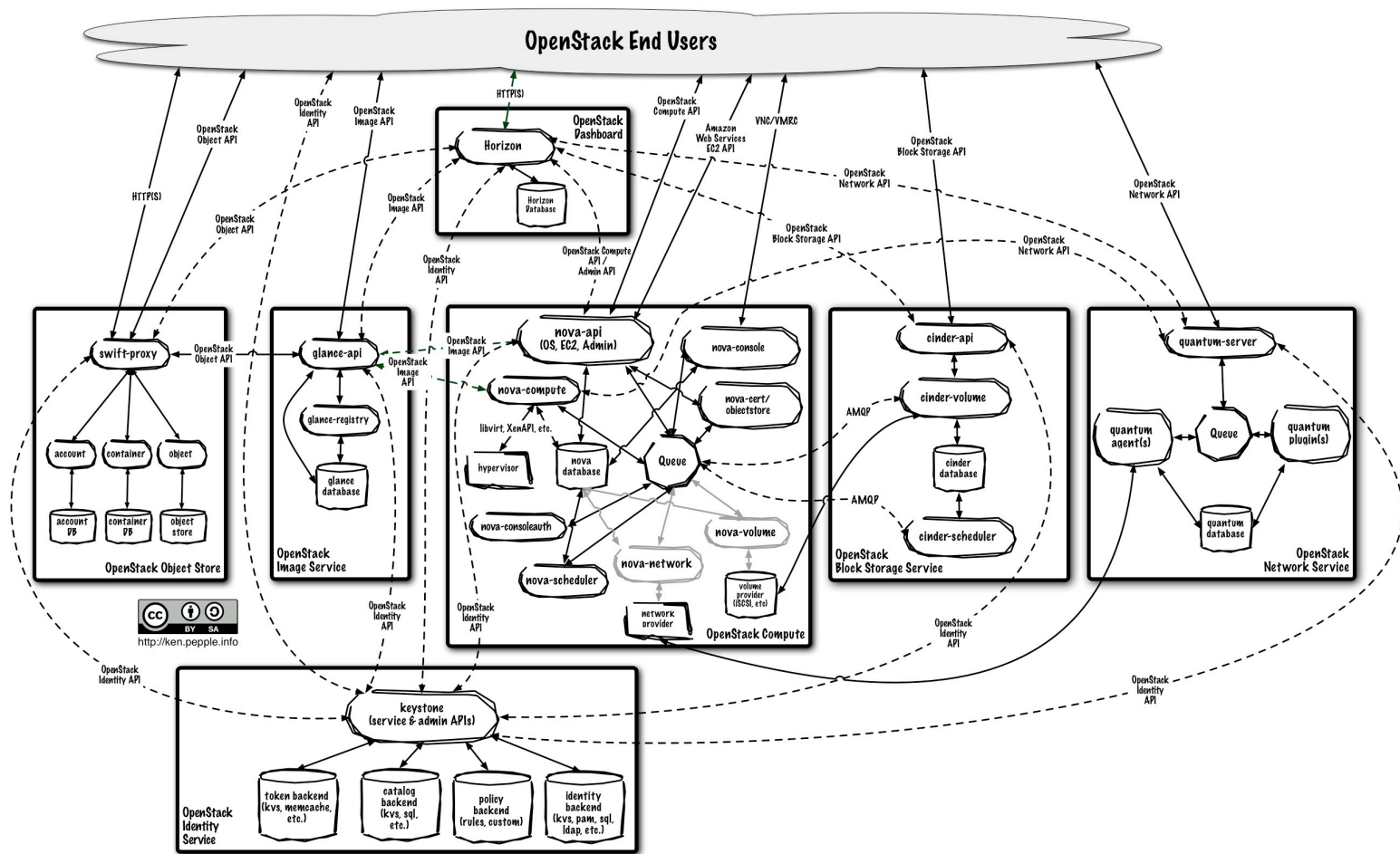


# OpenStack APIs

# Architecture



# Glance (Image)

- Provides services for discovering, registering, and retrieving virtual machine images.

# python-glanceclient

- Client for Glance API
  - Python API (glanceclient)
  - Command Line (glance)
- <https://github.com/openstack/python-glanceclient>
- `pip install python-glanceclient`

# python-glanceclient

- List available virtual machine images.
- Upload virtual machine images.
- Download virtual machine images.

# Swift (Object Storage)

- Highly available, distributed, and persistent object/blob storage.

# python-swiftclient

- Client for Swift API
  - Python API (swiftclient)
  - Command Line (swift)
- <https://github.com/openstack/python-swiftclient>
- `pip install python-swiftclient`

# python-swiftclient

- Create containers.
- Upload objects.
- Download objects.



# Nova (Compute)

- Provision and manage pools of virtual machines.

# python-novaclient

- Client for Nova API
  - Python API (novaclient)
  - Command Line (nova)
- <https://github.com/openstack/python-novaclient>
- `pip install python-novaclient`

# python-novaclient

- Launch virtual machines.
- Snapshot virtual machines.
- Terminate virtual machines.

# Cinder (Volume Service)

- Provides “block storage as a service”.

# python-cinderclient

- Client for Cinder API
  - Python API (cinderclient)
  - Command Line (cinder)
- <https://github.com/openstack/python-cinderclient>
- `pip install python-cinderclient`

# python-cinderclient

- Create volumes.
- Snapshot volumes.
- Delete volumes.