

# Linux Clusters Institute: OpenStack Cloud Service Overview

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# Orthogonal Cloud Services

- Keystone
- Glance
- Neutron
- Nova
- Cinder

# Keystone

- Identity component
- Issues and validates tokens for use by other services

# Glance

- Holds images and metadata
- Multiple storage backends supported

# losely with Nova

# Nova

Compute service, controls libvirt

Most people use KVM, other options available

Uses Neutron to get network info for interfaces

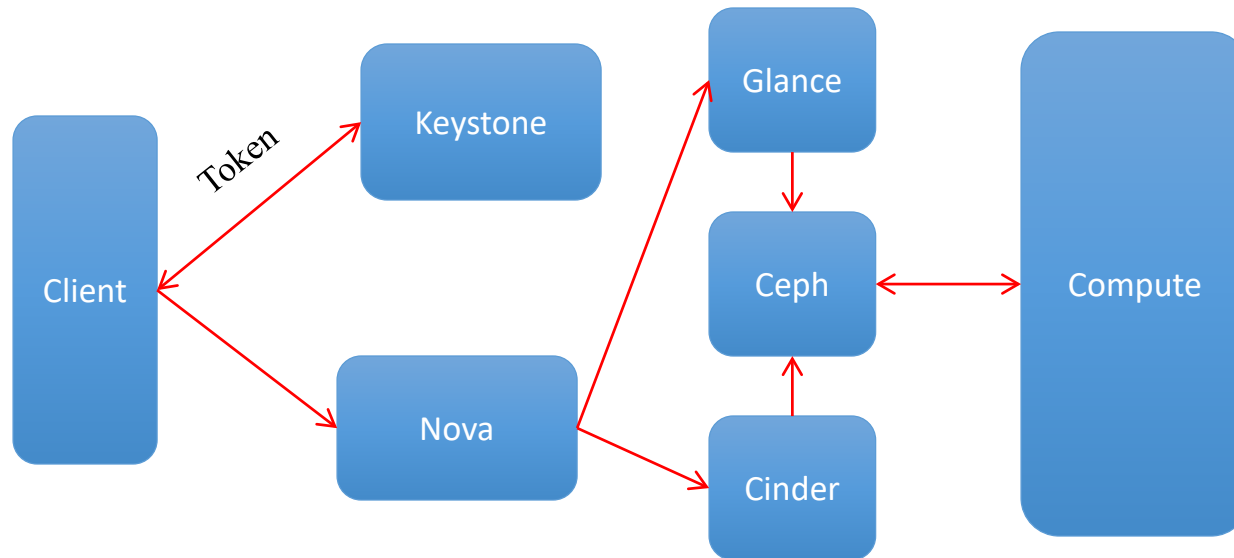
Uses Cinder to get volume info for attachment

Uses Glance to get images

# Cinder

- Tracks and controls Volumes
- Multiple 3<sup>rd</sup> party backends and an native backend
- Does not access any data inside a volume

# OpenStack Overview





# Resources

- OpenStack <https://www.openstack.org/software/>
- Keystone <https://docs.openstack.org/keystone/latest/>
- Glance <https://docs.openstack.org/glance/latest/>
- Cinder <https://docs.openstack.org/cinder/latest/>
- Neutron <https://docs.openstack.org/neutron/latest/>
- Nova <https://docs.openstack.org/nova/latest/>

# Questions