***Cinder*** is a block storage service from OpenStack that provides volumes to virtual machines, bare metal hosts, and containers

**CINDER - OPENSTACK**

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Openstack storage realms

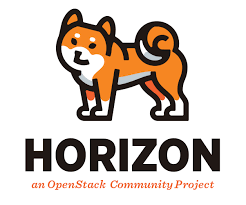
- Block Storage (cinder)

- Object Storage (swift)

- Image Storage (glance)

- Epermeral Storage (nova)

**ARCHITECTURE**



Instance

libvirt

/dev/sdc/

iSCSI initator

iSCSI target

LVM logical volume

LVM volume group

COMPUTE NODE

RPC

TARGER

DRIVER

VOLUME DRIVER

STORAGE NODE

STORAGE NODE

CONTROLLER

**CINDER FUNCTIONS**

* Create Volume
* Delete Volume
* Attach Volume
* Detach Volume
* Extend Volume
* Create Snapshot
* Delete Snapshot
* Create Volume from Snapshot
* Create Volume from Volume (clone)
* Create Image from Volume
* Volume Migration (host assisted)

RPC

REST

CINDER API

CINDER SCHEDULER

CINDER VOLUME MANAGER

DATABASE NODE

CINDER API

* Volume API
* Snapshot API
* Consistency Group API
* Backup API
* Group API
* Volume Type API
* Volume Type Extra Specs API
* Volume Type QoS Specs API

**CINDER DB**

OBJECT STORAGE

BACKEND STORAGE DEVICES

**CINDER BACKUP**

CINDER VOLUME

**SCHEDULER**

**QUEUE**

**CINDER API**

***CINDER CLI***



***CINDER***