

OpenStack Cinder



Presenter

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Cinder – overview its role in OpenStack

- Cinder service provides persistent block level storage volumes .
- Cinder allows you to create storage volumes and attach them to Nova instances.
- Once attached, you can create a file system on top of these volumes (NTFS for windows and ext3/ext4 for linux)
- In easy words , think of cinder volumes like a D drive of your VM
- **Why do you need to use cinder ?**
 - You have launched to Nova instance running windows server 2012 which has C drive of 100 GB , you would want additional 500 GB for your data .
 - Cloud Enabled recommends you to store your critical data on D drive (cinder volume) instead C drive. In case of accidental deletion of a VM you can always launch new instance and attach to the new VM

Cinder- Main Components

Cinder-API

- Accepts API requests and routes them to for action

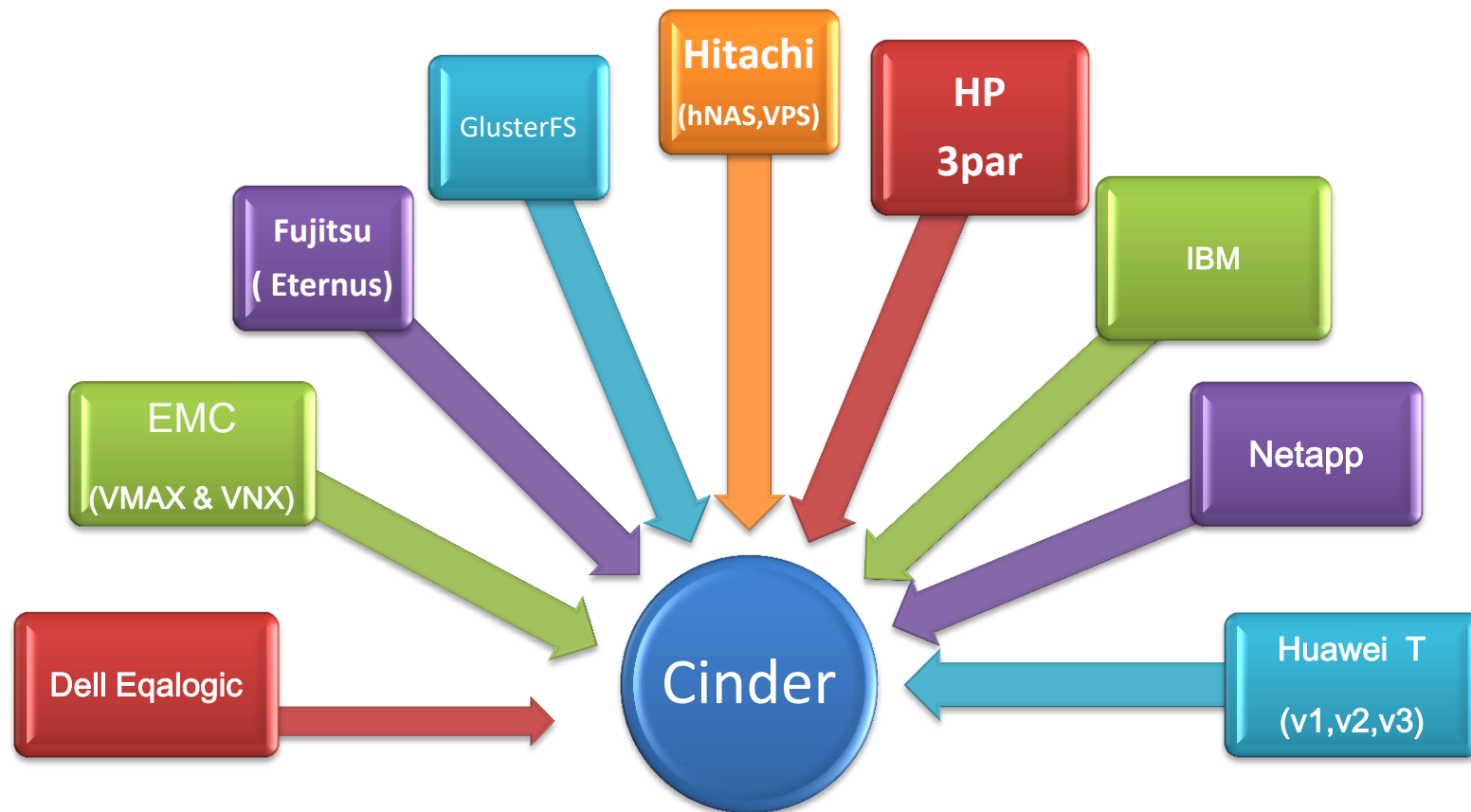
Cinder-Scheduler

- routes requests to the appropriate volume service

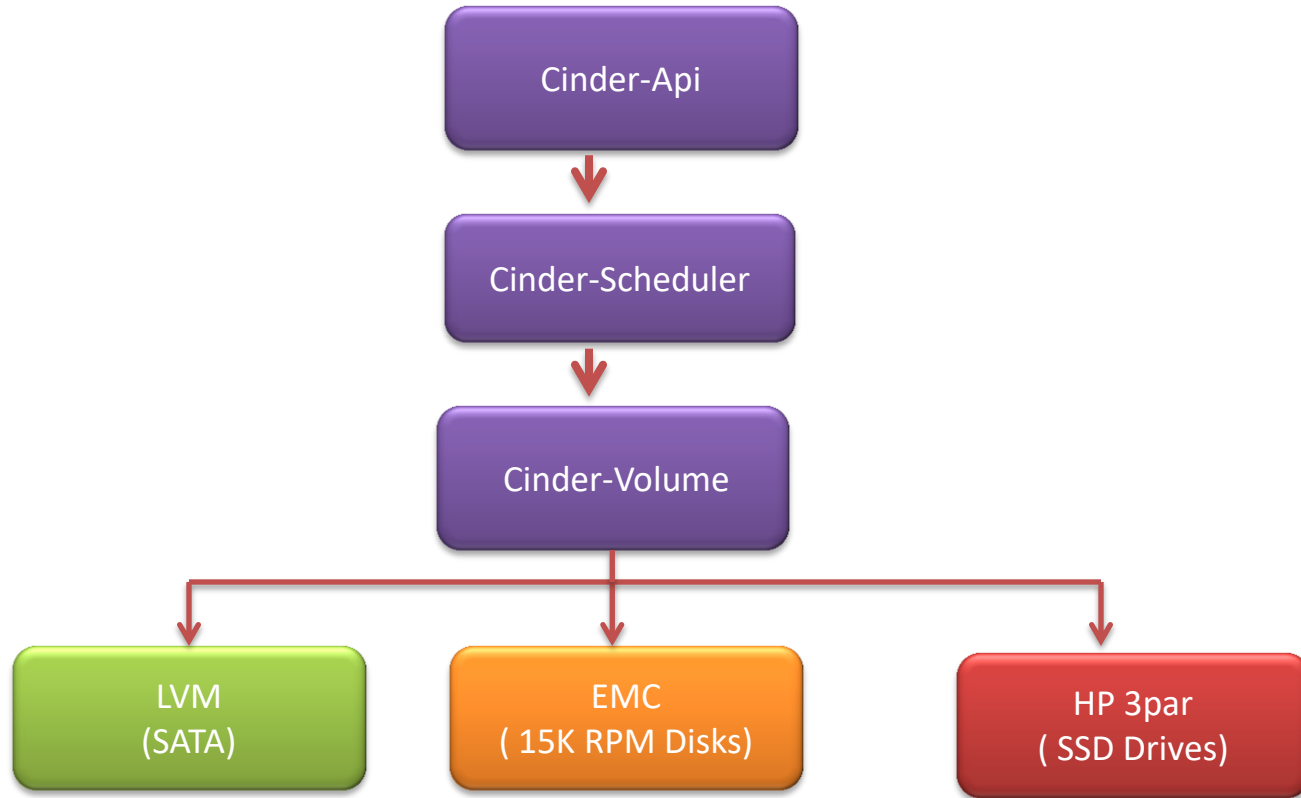
Cinder-Volume

- Volume service will route them to storage backends using vendor-supplied drivers.

Cinder Support/Matrix



Cinder - Backends



Cinder - Enabling Backends (sample config file)

- Cinder support multi- backend environments
- Sample config file

`[lvmdriver-1]`

```
volume_group = cinder-volumes-1  
volume_driver = cinder.volume.drivers.lvm.LVMVolumeDriver  
volume_backend_name = LVM
```

`[3par]`

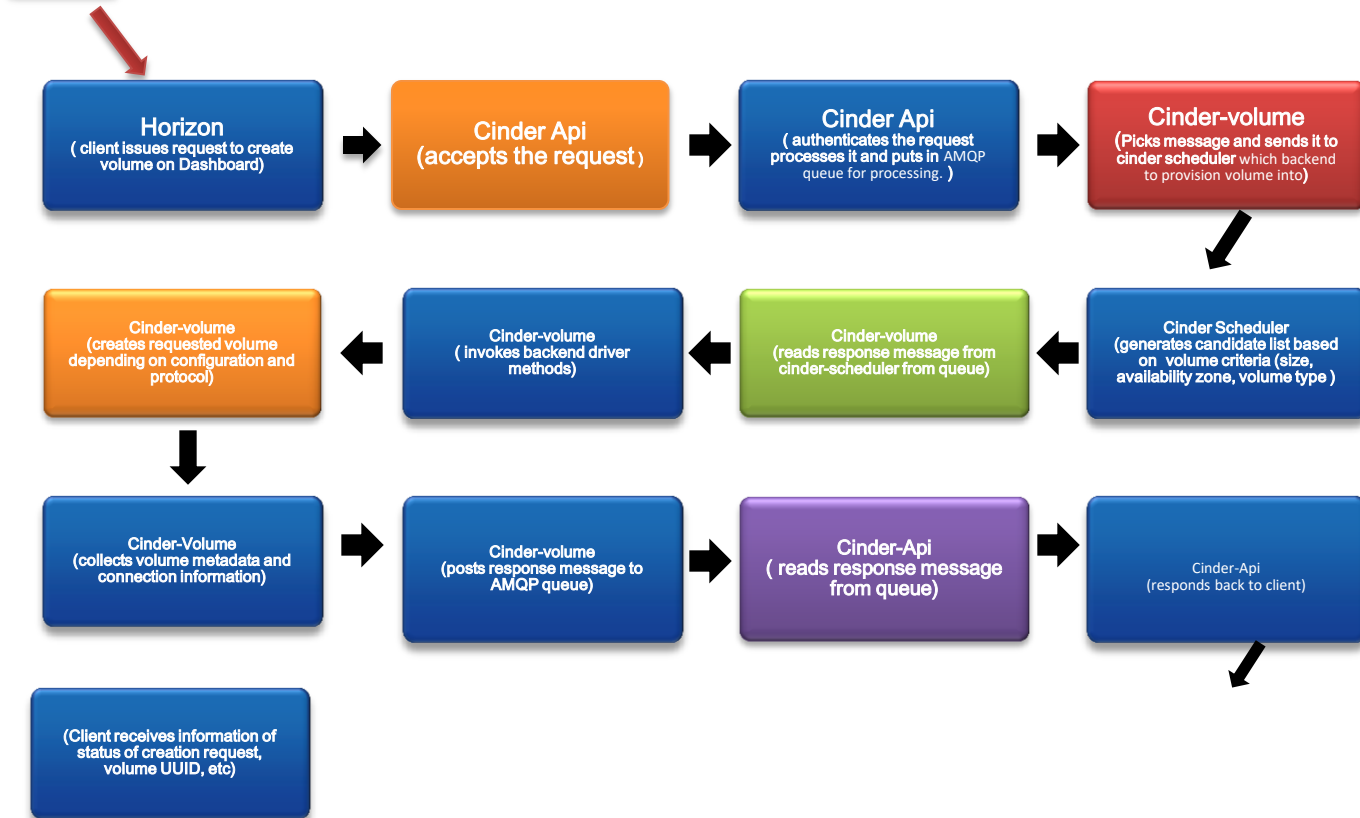
```
use_multipath_for_image_xfer = true  
volume_driver = cinder.volume.drivers.hpe.hpe_3par_fc.HPE3PARFCDriver  
volume_backend_name = 3parfc
```

`[emc]`

```
use_multipath_for_image_xfer = true  
volume_driver = cinder.volume.drivers.emc.emc_smis_fc.EMCSMISFCDriver  
volume_backend_name = mcfc
```



Cinder behind the scenes :How Volume gets created



About Us

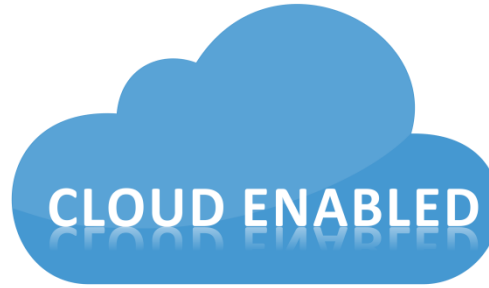
What we do ...

Cloud and Devops

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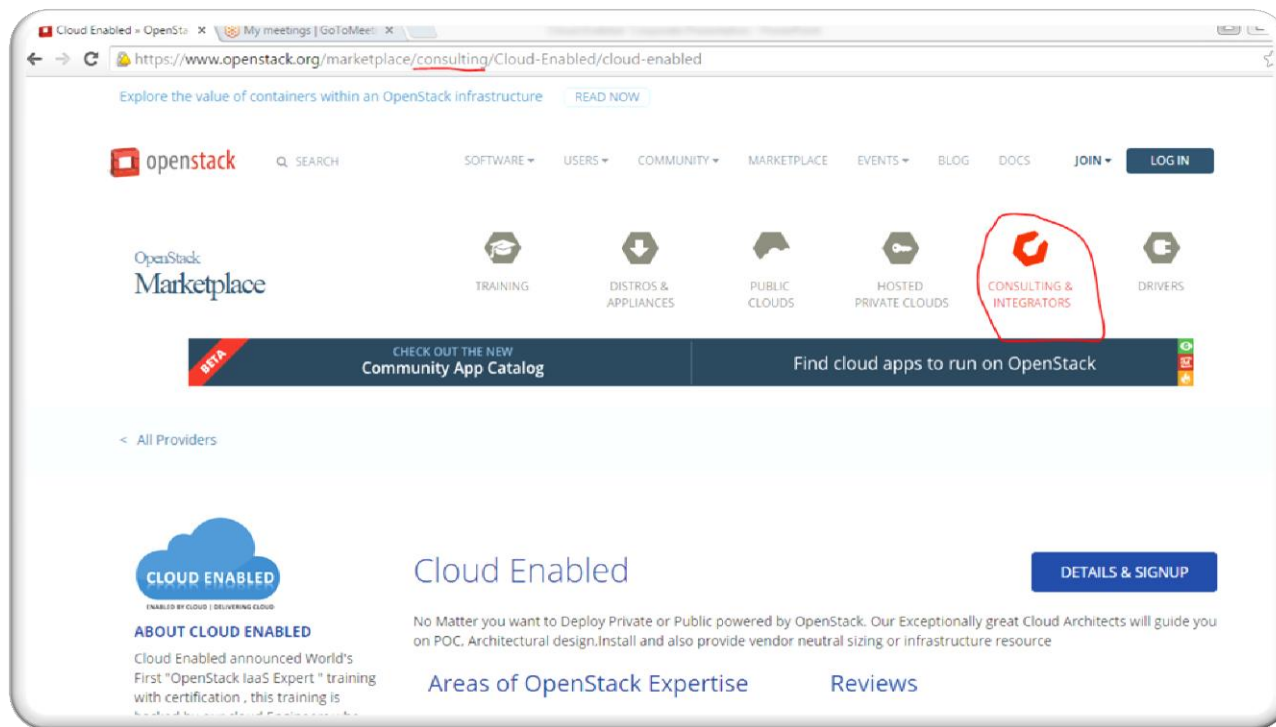


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Our Presence



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The screenshot shows the OpenStack Marketplace website. The URL in the browser is <https://www.openstack.org/marketplace/consulting/Cloud-Enabled/cloud-enabled>. The navigation bar includes links for SOFTWARE, USERS, COMMUNITY, MARKETPLACE, EVENTS, BLOG, DOCS, JOIN, and LOG IN. Below the navigation bar, there are icons for TRAINING, DISTROS & APPLIANCES, PUBLIC CLOUDS, HOSTED PRIVATE CLOUDS, CONSULTING & INTEGRATORS (highlighted with a red circle), and DRIVERS. A banner below these icons reads "CHECK OUT THE NEW Community App Catalog" and "Find cloud apps to run on OpenStack". The main content area features a "CLOUD ENABLED" logo, the text "Cloud Enabled", and a "DETAILS & SIGNUP" button. Below this, there is a section titled "ABOUT CLOUD ENABLED" and a paragraph describing the service. To the right, there are links for "Areas of OpenStack Expertise" and "Reviews".

Cloud Implementation and Migration Services Offering

Implementation Services



cloudstack
open source cloud computing

Migration Services

OpenStack Nova
instances migration to
Amazon Web Services
EC2

VMware ESXI based VM's
migration to
Amazon Web Services
EC2

Hypervisors Implementation



KVM

Cloud **Enthusiastic Support** Services Offering



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- Apache CloudStack Support service
- 24x7 Support team backed by Cloud Enabled enthusiastic Support Engineers
- Deployment and Management of MySQL DB Active/Active Support services
- We also are ware one Size does not fit all and based on business criticality you can choose one of our two support options .



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Advanced course -100 \$ and
above

Openstack training Feedback

Openstack Iaas Expert training by An Expert - ★★★★★

by Gunasekaran on Mar 1st 2015

"You can't have a better training on Openstack other than from ""Cloudenabled"". 1. Training content is made to meet the industry expectation rather than just clearing a certification 2. Training is being conducted by a trainer who owns a cloud consultation and support company - So training by a real time expert rather than from trained trainer"

Best Openstack Training I've ever attended - ★★★★★

by Karthi on Mar 3rd 2015

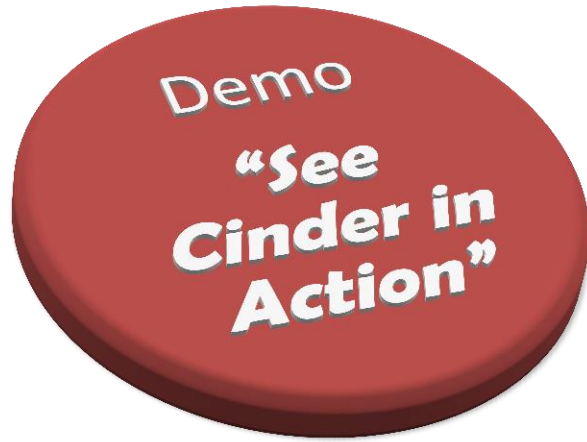
Anil has designed the course using his extensive hands-on experience. He takes pride in sharing his wealth of knowledge that he has gained over the past several years on multiple private and public cloud deployments. His hands-on labs are very useful in understanding the underpinning concepts . I strongly recommend anyone who wants to master openstack implementation; to attend his training.

Openstack training? Look nowhere else. - ★★★★★

by Ramesh on Mar 6th 2015

At Cloud Enabled; you build the cloud right from scratch; multiple times. You don't see the trainer 'show' you things. This makes all the difference. One comes in like a clean slate and at end of the training; he answers all possible questions on openstack. I had the privilege of listening right from the horse's mouth. Anil is exceptional in his knowledge of cloud and he is passionate about sharing that knowledge. His team is as enthusiastic as himself. He is possibly the only trainer who tells the recruiters 'you can hire my students with your eyes closed'. There are openstack training institutes; then there is Cloud Enabled.

Source : <http://www.openstack.org/marketplace/training/Cloud-Enabled/62>



Live demo on “ Openstack Cinder”