Cinder Block Storage service overview

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The OpenStack Block Storage service (Cinder) adds persistent storage to a virtual machine. Block Storage provides an infrastructure for managing volumes, and interacts with OpenStack Compute to provide volumes for instances. The service also enables management of volume snapshots, and volume types.

The Block Storage service consists of the following components:

cinder-api

Accepts API requests, and routes them to the **cinder-volume** for action.

cinder-volume

Interacts directly with the Block Storage service, and processes such as the **cinder-scheduler**. It also interacts with these processes through a message queue. The **cinder-volume** service responds to read and write requests sent to the Block Storage service to maintain state. It can interact with a variety of storage providers through a driver architecture.

cinder-scheduler daemon

Selects the optimal storage provider node on which to create the volume. A similar component to the nova-scheduler.

cinder-backup daemon

The **cinder-backup** service provides backing up volumes of any type to a backup storage provider. Like the **cinder-volume** service, it can interact with a variety of storage providers through a driver architecture.

Messaging queue

Routes information between the Block Storage processes.

(index.html) (index-obs.html) (https://bugs.launchpad.net/cinder/+filebug? field.title=Cinder%20Block%20Storage%20service%20overview%20in%20Cinder&field.comment=%0A%0A%0AThis bug tracker is for errors with the documentation, use the following as a template and remove or add fields as you see fit. Convert [] into [x] to check boxes:%0A%0A- [] This doc is inaccurate in this way: ______%0A- [] This is a doc addition request.%0A- [] I have a fix to the document that I can paste below including example: input and output. %0A%0Alf you have a troubleshooting or support issue, use the following resources:%0A%0A - Ask OpenStack: http://ask.openstack.org%0A - The mailing list: http://lists.openstack.org%0A - IRC: 'openstack' channel on Freenode%0A%0A---------------%0ARelease:%2012.0.1.dev9%20on%202018-03-08%2015:24%0ASHA:%20ca6e2fb1fb74150680bff605a241947fc88ddd51%0ASource:%20https://git.openstack.org/cgit/openstack/cinder/tree/doc/source/install/get-started-block-storage.html&field.tags=doc)

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Cinder 12.0.1

(../index.html)

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Adding Cinder to your OpenStack Environment (index.html#adding-cinder-to-your-openstack-environment)

Upgrade Process (../upgrade.html)

Cinder Administration (../admin/index.html)

Cinder Service Configuration (../configuration/index.html)
Sample Configuration File (../sample_config.html)
Sample Policy File (../sample_policy.html)
Available Drivers (../drivers.html)

Command-Line Interface Reference (../cli/index.html) cinder-manage Usage (../man/cinder-manage.html)

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Glossary (../common/glossary.html)

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