

# Cloud Application Development

## LAB: CLI Cinder

Name: - Nilesh Verma

SAP Id.: - 500087239

Batch: - B4 Non-Hons CC&VT

Roll No.: - R2142201812

### Cinder Commands

```
[root@localhost ~(keystone_admin)]# cinder service-list
+-----+-----+-----+-----+-----+-----+-----+
| Binary | Host | Zone | Status | State | Updated_at |
+-----+-----+-----+-----+-----+-----+
| cinder-backup | localhost.localdomain | nova | enabled | up | 2023-04-22T16:28:19.000000 |
| cinder-scheduler | localhost.localdomain | nova | enabled | up | 2023-04-22T16:28:19.000000 |
| cinder-volume | localhost.localdomain | nova | enabled | up | 2023-04-22T16:28:19.000000 |
+-----+-----+-----+-----+-----+-----+
[root@localhost ~(keystone_admin)]# _
```

```
--property <key=value>      consistency group where the new volume belongs to
                             Set a property to this volume (repeat option to set
                             multiple properties)
--hint <key=value>          Arbitrary scheduler hint key-value pairs to help boot
                             an instance (repeat option to set multiple hints)
--bootable                  Mark volume as bootable
--non-bootable              Mark volume as non-bootable (default)
--read-only                 Set volume to read-only access mode
--read-write                Set volume to read-write access mode (default)

Output formatters:
Output formatter options
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}
                             the output format, defaults to table
-c COLUMN, --column COLUMN
                             specify the column(s) to include, can be repeated

Table formatter:
--max-width <integer>       Maximum display width, <1 to disable. You can also use
                             the CLIFF_MAX_TERM_WIDTH environment variable, but the
                             parameter takes precedence.
--fit-width                  Fit the table to the display width. Implied if --max-
                             width greater than 0. Set the environment variable
                             CLIFF_FIT_WIDTH=1 to always enable
--print-empty                Print empty table if there is no data to show.

JSON formatter:
--noindent                  whether to disable indenting the JSON

Shell formatter:
--prefix PREFIX             add a prefix to all variable names
                             a format a UNIX shell can parse (variable="value")

[root@localhost ~(keystone_admin)]#
```

```

: volume create
: volume delete
: volume host set
: volume list
: volume migrate
: volume qos associate
: volume qos create
: volume qos delete
: volume qos disassociate
: volume qos list
: volume qos set
: volume qos show
: volume qos unset
: volume service list
: volume service set
: volume set
: volume show
: volume snapshot create
: volume snapshot delete
: volume snapshot list
: volume snapshot set
: volume snapshot show
: volume snapshot unset
: volume transfer request accept
: volume transfer request create
: volume transfer request delete
: volume transfer request list
: volume transfer request show
: volume type create
: volume type delete
: volume type list
: volume type set
: volume type show
: volume type unset
: volume unset
-----
[root@localhost ~(keystone_admin)]# _

```

```

[root@localhost ~(keystone_admin)]# openstack volume create --size 1 vol1
-----
: Field              : Value
: -----
: attachments        : []
: availability_zone   : nova
: bootable            : false
: consistencygroup_id : None
: created_at          : 2023-04-22T16:24:21.000000
: description         : None
: encrypted           : False
: id                  : df9805b4-2937-409b-bc03-5db243735457
: migration_status    : None
: multiattach         : False
: name                : vol1
: properties          :
: replication_status  : None
: size                : 1
: snapshot_id         : None
: source_vol_id       : None
: status              : creating
: type                : iscsi
: updated_at          : None
: user_id             : 9ca7b68be5f04c09ba0d7f01b55bec03
: -----
[root@localhost ~(keystone_admin)]# _

```

```
[root@localhost ~(keystone_admin)]# openstack volume list
```

ID	Name	Status	Size	Attached to
df9085b4-2937-409b-bc03-5db243735457	vol1	available	1	

```
[root@localhost ~(keystone_admin)]#
```

```
[root@localhost ~(keystone_admin)]# openstack server list
```

ID	Name	Status	Networks	Image	Flavor
16ecce66-443a-4761-b300-686335683df3	cirros	ACTIVE	anantnet=10.0.0.4	cirros	m1.tiny

```
[root@localhost ~(keystone_admin)]# ping 10.0.0.4
PING 10.0.0.4 (10.0.0.4) 56(84) bytes of data.
```

```
[root@localhost ~(keystone_admin)]# ping 10.0.0.247
PING 10.0.0.247 (10.0.0.247) 56(84) bytes of data.
```

```
server event show
server group create
server group delete
server group list
server group show
server image create
server list
server lock
server migrate
server pause
server reboot
server rebuild
server remove fixed ip
server remove floating ip
server remove network
server remove port
server remove security group
server remove volume
server rescue
server resize
server resize confirm
server resize revert
server restore
server resume
server set
server shelve
server show
server ssh
server start
server stop
server suspend
server unlock
server unpause
server unrescue
server unset
server unshelve
[root@localhost ~(keystone_admin)]#
```

```
[root@localhost ~(keystone_admin)]# openstack server add volume cirros vol1
[root@localhost ~(keystone_admin)]#
```

```
volume backup show
volume create
volume delete
volume host set
volume list
volume migrate
volume qos associate
volume qos create
volume qos delete
volume qos disassociate
volume qos list
volume qos set
volume qos show
volume qos unset
volume service list
volume service set
volume set
volume show
volume snapshot create
volume snapshot delete
volume snapshot list
volume snapshot set
volume snapshot show
volume snapshot unset
volume transfer request accept
volume transfer request create
volume transfer request delete
volume transfer request list
volume transfer request show
volume type create
volume type delete
volume type list
volume type set
volume type show
volume type unset
volume unset
root@localhost ~(keystone_admin)]# _
```

```
root@localhost ~(keystone_admin)]# openstack volume backup create --name backupvol1 --force vol1
+-----+
| Field | Value |
+-----+
| id    | 546ce14b-92c7-487e-b9ab-e888497e9e2e |
| name  | backupvol1 |
+-----+
root@localhost ~(keystone_admin)]#
```

```

[root@localhost ~(keystone_admin)]# openstack volume backup create --name backupvol1 --force vol1
+-----+
| Field | Value |
+-----+
| id     | 546ce14b-92c7-487e-b9ab-e888497e9e2e |
| name   | backupvol1 |
+-----+
[root@localhost ~(keystone_admin)]# openstack volume backup show backupvol1
+-----+
| Field | Value |
+-----+
| availability_zone | nova |
| container         | volumebackups |
| created_at        | 2023-04-22T17:52:39.000000 |
| data_timestamp    | 2023-04-22T17:52:39.000000 |
| description       | None |
| fail_reason       | None |
| has_dependent_backups | False |
| id               | 546ce14b-92c7-487e-b9ab-e888497e9e2e |
| is_incremental    | False |
| name             | backupvol1 |
| object_count      | 0 |
| size             | 1 |
| snapshot_id       | None |
| status           | creating |
| updated_at        | 2023-04-22T17:53:22.000000 |
| volume_id         | df9085b4-2937-409b-bc03-5db243735457 |
+-----+
[root@localhost ~(keystone_admin)]# _

```

```

[root@localhost ~(keystone_admin)]# openstack volume snapshot create --volume vol1 --force snapshot1
Invalid volume: Volume df9085b4-2937-409b-bc03-5db243735457 status must be available, in-use, but current status is: backing-up. (HTTP 400) (Request-ID: req-19ebc6a3-ad04-4277-aafa-b37399c425af)
[root@localhost ~(keystone_admin)]# _

```

```

+-----+
| | volume create |
| | volume delete |
| | volume host set |
| | volume list |
| | volume migrate |
| | volume qos associate |
| | volume qos create |
| | volume qos delete |
| | volume qos disassociate |
| | volume qos list |
| | volume qos set |
| | volume qos show |
| | volume qos unset |
| | volume service list |
| | volume service set |
| | volume set |
| | volume show |
| | volume snapshot create |
| | volume snapshot delete |
| | volume snapshot list |
| | volume snapshot set |
| | volume snapshot show |
| | volume snapshot unset |
| | volume transfer request accept |
| | volume transfer request create |
| | volume transfer request delete |
| | volume transfer request list |
| | volume transfer request show |
| | volume type create |
| | volume type delete |
| | volume type list |
| | volume type set |
| | volume type show |
| | volume type unset |
| | volume unset |
+-----+
[root@localhost ~(keystone_admin)]#

```