Identifying and Deleting VM Snapshots via CLI

This guide describes the step-by-step procedure for identifying and deleting snapshots (volume snapshots) associated with a Virtual Machine (VM) on **NexaVM** platforms (**NexaSphere** / **NexaCloud**) using the interactive command-line interface (`zstack-cli`).

Prerequisites

- SSH access to the **Management Node** with administrative privileges (`root`).
- Administrative credentials for the NexaVM platform (e.g., `admin` account).

Step 1: Access the Management CLI

1. Connect via SSH to the NexaVM Management Node.
2. Launch the interactive `zstack-cli` shell and authenticate:

```
zstack-cli
LogInByAccount accountName=admin password=<ADMIN_PASSWORD>
```

Step 2: Identify the VM UUID

If you do not already have the unique identifier (`uuid`) of the target virtual machine, query the instance list filtering by name:

```
QueryVmInstance name=<VM_NAME>
```

(Alternatively, run `QueryVmInstance` without parameters to list all existing instances).

Note down the value of the **`uuid`** field returned for the target VM (e.g., `<VM_UUID>`).

Step 3: Identify the Volumes Attached to the VM

In NexaVM, snapshots are tied to the individual volumes (Root or Data) attached to the VM. Query the volumes associated with the instance using the UUID retrieved in the previous step:

```
QueryVolume vmInstanceUuid=<VM_UUID>
```

Note down the value of the `uuid` field for each returned volume (e.g., `<VOLUME_UUID>`).

Step 4: List Snapshots per Volume

Use the volume UUID to display all snapshots associated with that volume:

```
QueryVolumeSnapshot volumeUuid=<VOLUME_UUID>
```

*(Note: Inside the `zstack-cli` console, you can type `QueryVolumeSnapshot` and press the **Tab** key to view all queryable fields).*

From the returned JSON output, locate the snapshot you want to remove and note down its `uuid` (e.g., `<SNAPSHOT_UUID>`).

Step 5: Delete the Snapshot

Standard Mode

Execute the deletion command by passing the identified snapshot UUID:

```
DeleteVolumeSnapshot uuid=<SNAPSHOT_UUID>
```

Forced / Permissive Mode (in case of a stuck state)

If the snapshot is in an anomalous or stuck state that prevents standard deletion, force the operation by appending the `deleteMode=Permissive` parameter:

```
DeleteVolumeSnapshot uuid=<SNAPSHOT_UUID> deleteMode=Permissive
```

Step 6: Verify Deletion

1. Re-run the query on the volume to ensure the snapshot is no longer present in the inventory:
   ```
   QueryVolumeSnapshot volumeUuid=<VOLUME_UUID>
   ```
2. Exit the `zstack-cli` console by typing:
   ```
   quit
   ```