

(delete on termination) 3

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delete_on_termination 4

(delete on termination)

delete on termination

가 DB

openstack server list, openstack server show
nova list, nova show

```
(overcloud) [stack@director ~]$ nova list
+-----+-----+-----+-----+-----+
+-----+
| ID | Name | Status | Task State | Power
State | Networks |
+-----+-----+-----+-----+-----+
| 7574f8c6-a165-4fb7-a21d-cb03770e69b7 | test | ACTIVE | - |
Running | vmnet0=192.168.55.81 |
| 1a46c1c9-216d-4cc4-90a5-5fdb621ea037 | test2 | ACTIVE | - |
Running | vmnet0=192.168.55.185 |
| 9b50eb68-bd73-4c49-99d6-f548654f5665 | ttt | ACTIVE | - |
Running | vmnet0=192.168.55.227 |
+-----+-----+-----+-----+-----+
+-----+
```

```
(overcloud) [stack@director ~]$ nova show test
+-----+-----+-----+-----+-----+
+-----+
| Property | Value |
|
+-----+-----+-----+-----+-----+
+-----+
...
| os-extended-volumes:volumes_attached | [{"id": "80e71469-7a8e-4abd-
affb-19f71c0f6406", "delete_on_termination": true}] |
...
+-----+-----+-----+-----+-----+
+-----+
```

```
os-extended-volumes:volumes_attached
delete_on_termination true
```

delete_on_termination

```
controller SQL
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- delete_on_termination

```
# podman exec -t $(sudo podman ps -q -f name=galera) mysql -uroot -e "select * from nova.block_device_mapping where instance_uuid='INSTANCE_UUID'\G;"
```

- delete_on_termination :

```
# podman exec -t $(sudo podman ps -q -f name=galera) mysql -uroot -e "update nova.block_device_mapping set delete_on_termination='0' where instance_uuid='INSTANCE_UUID';"
```

row가

```
[root@overcloud-controller-0 ~]# podman exec -t $(sudo podman ps -q -f name=galera) mysql -uroot -e "select * from nova.block_device_mapping where instance_uuid='7574f8c6-a165-4fb7-a21d-cb03770e69b7'\G;"
***** 1. row *****
      created_at: 2023-04-25 04:58:12
      updated_at: 2023-04-25 06:26:23
      deleted_at: NULL
           id: 43
      device_name: /dev/vda
delete_on_termination: 1          ### <<<<< delete_on_termination
1
      snapshot_id: NULL
      volume_id: 80e71469-7a8e-4abd-affb-19f71c0f6406
      volume_size: 10
      no_device: 0
      connection_info: {"driver_volume_type": "rbd", "data": {"name": "volumes/volume-80e71469-7a8e-4abd-affb-19f71c0f6406", "hosts": ["172.16.1.31", "172.16.1.32", "172.16.1.33"], "ports": ["6789", "6789", "6789"], "cluster_name": "ceph", "auth_enabled": true, "auth_username": "openstack", "secret_type": "ceph", "secret_uuid": "39e13f84-26a4-4d91-bd1c-6e6c74762e8e", "volume_id": "80e71469-7a8e-4abd-affb-19f71c0f6406", "discard": true, "keyring": null, "qos_specs": null, "access_mode": "rw", "encrypted": false}, "status": "attaching", "instance": "7574f8c6-a165-4fb7-
```

```
a21d-cb03770e69b7", "attached_at": "2023-04-25T06:26:22.000000",
"detached_at": "", "volume_id": "80e71469-7a8e-4abd-affb-19f71c0f6406",
"serial": "80e71469-7a8e-4abd-affb-19f71c0f6406"}
  instance_uuid: 7574f8c6-a165-4fb7-a21d-cb03770e69b7
    deleted: 0
    source_type: image
  destination_type: volume
  guest_format: NULL
  device_type: disk
    disk_bus: virtio
  boot_index: 0
    image_id: 0038989e-2e66-4afd-ab5a-10c6b8e4e11c
    tag: NULL
  attachment_id: 5e3ddea9-16f6-4b18-afc3-b04ee9ab2328
    uuid: 49127384-1b00-4f40-9ba5-324463c95af6
  volume_type: NULL
```

delete_on_termination .

```
[root@overcloud-controller-0 ~]# podman exec -t $(sudo podman ps -q -f
name=galera) mysql -uroot -e "update nova.block_device_mapping set
delete_on_termination='0' where instance_uuid='7574f8c6-a165-4fb7-a21d-
cb03770e69b7';"
```

delete_on_termination .

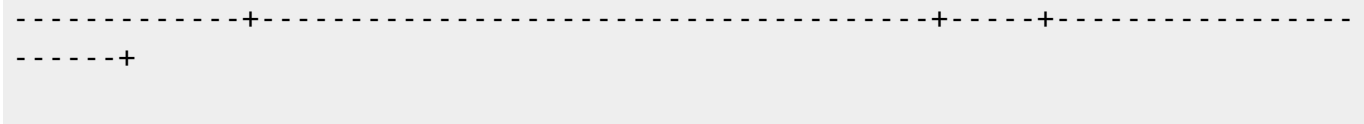
```
[root@overcloud-controller-0 ~]# podman exec -t $(sudo podman ps -q -f
name=galera) mysql -uroot -e "select * from nova.block_device_mapping where
instance_uuid='7574f8c6-a165-4fb7-a21d-cb03770e69b7'\G;"
***** 1. row *****
  created_at: 2023-04-25 04:58:12
  updated_at: 2023-04-25 06:26:23
  deleted_at: NULL
    id: 43
  device_name: /dev/vda
delete_on_termination: 0          ### <<<<<
  snapshot_id: NULL
  volume_id: 80e71469-7a8e-4abd-affb-19f71c0f6406
  volume_size: 10
  no_device: 0
  connection_info: {"driver_volume_type": "rbd", "data": {"name":
"volumes/volume-80e71469-7a8e-4abd-affb-19f71c0f6406", "hosts":
["172.16.1.31", "172.16.1.32", "172.16.1.33"], "ports": ["6789", "6789",
"6789"], "cluster_name": "ceph", "auth_enabled": true, "auth_username":
"openstack", "secret_type": "ceph", "secret_uuid": "39e13f84-26a4-4d91-
bd1c-6e6c74762e8e", "volume_id": "80e71469-7a8e-4abd-affb-19f71c0f6406",
"discard": true, "keyring": null, "qos_specs": null, "access_mode": "rw",
"encrypted": false}, "status": "attaching", "instance": "7574f8c6-a165-4fb7-
```

```
a21d-cb03770e69b7", "attached_at": "2023-04-25T06:26:22.000000",
"detached_at": "", "volume_id": "80e71469-7a8e-4abd-affb-19f71c0f6406",
"serial": "80e71469-7a8e-4abd-affb-19f71c0f6406"}
  instance_uuid: 7574f8c6-a165-4fb7-a21d-cb03770e69b7
    deleted: 0
    source_type: image
  destination_type: volume
  guest_format: NULL
  device_type: disk
    disk_bus: virtio
    boot_index: 0
    image_id: 0038989e-2e66-4afd-ab5a-10c6b8e4e11c
    tag: NULL
  attachment_id: 5e3ddea9-16f6-4b18-afc3-b04ee9ab2328
    uuid: 49127384-1b00-4f40-9ba5-324463c95af6
  volume_type: NULL
```

delete_on_termination false

```
(overcloud) [stack@director ~]$ nova show test
+-----+-----+
| Property | Value |
+-----+-----+
...
| os-extended-volumes:volumes_attached | [{"id": "80e71469-7a8e-4abd-
affb-19f71c0f6406", "delete_on_termination": false}] |
...
+-----+-----+

(overcloud) [stack@director ~]$ nova volume-attachments test
+-----+-----+-----+-----+
| ID | DEVICE | SERVER ID |
| VOLUME ID | TAG | DELETE ON TERMINATION |
+-----+-----+-----+-----+
| 80e71469-7a8e-4abd-affb-19f71c0f6406 | /dev/vda | 7574f8c6-a165-4fb7-a21d-
cb03770e69b7 | 80e71469-7a8e-4abd-affb-19f71c0f6406 | - | False
|
+-----+-----+-----+-----+
```



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