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Openstack multiple cinder backend

Multiple pool backend

Ceph backend cinder backend pool volumes 가 pool
 CinderRbdExtraPools 가 .

```
parameter_defaults:
  CephClientKey: AQDwDCdiAAAAABAACo5BC/EwTx16sAxTSzyT5Q==
  CephClusterFSID: 78150b72-0a47-44fd-bea0-c38af1e74077
  CephExternalMonHost: 172.16.1.31, 172.16.1.32, 172.16.1.33

  CephAnsiblePlaybookVerbosity: 1

  CinderRbdExtraPools: hddpool,ssdpool
```

가 hddpool, ssdpool 가 volume backend .

```
(overcloud) [stack@director ~]$ openstack volume service list
+-----+-----+-----+-----+-----+
| Binary          | Host          | Zone | Status | State |
| Updated At     |               |      |        |       |
+-----+-----+-----+-----+-----+
| cinder-scheduler | overcloud-controller-1 | nova | enabled | up   |
| 2022-03-10T09:01:58.000000 | |      |        |       |
| cinder-scheduler | overcloud-controller-2 | nova | enabled | up   |
| 2022-03-10T09:01:58.000000 | |      |        |       |
| cinder-scheduler | overcloud-controller-0 | nova | enabled | up   |
| 2022-03-10T09:01:58.000000 | |      |        |       |
| cinder-volume    | hostgroup@tripleo_ceph | nova | enabled | up   |
| 2022-03-10T09:01:56.000000 | |      |        |       |
| cinder-volume    | hostgroup@tripleo_ceph_hddpool | nova | enabled | up   |
| 2022-03-10T09:01:56.000000 | |      |        |       |
| cinder-volume    | hostgroup@tripleo_ceph_ssdpool | nova | enabled | up   |
| 2022-03-10T09:01:56.000000 | |      |        |       |
+-----+-----+-----+-----+-----+
```

2가 가 가 .
 가 .

```
(overcloud) [stack@director ~]$ cinder type-list
+-----+-----+-----+
+-----+
| ID                | Name          | Description          |
Is_Public |
+-----+-----+-----+
+-----+
| 98653d20-8229-4ce1-9b63-855c5acfa85b | tripleo      | -                    |
True          |
| bda85913-bd4a-48e5-b054-3fa6060f9573 | __DEFAULT__ | Default Volume Type |
True          |
+-----+-----+-----+
+-----+
(overcloud) [stack@director ~]$ cinder type-create ssd
+-----+-----+-----+-----+
| ID                | Name | Description | Is_Public |
+-----+-----+-----+-----+
| 6924bd4d-db05-48e3-97b7-e29204a405a3 | ssd  | -           | True      |
+-----+-----+-----+-----+
(overcloud) [stack@director ~]$ cinder type-key ssd set
volume_backend_name=tripleo_ceph_ssdpool
(overcloud) [stack@director ~]$ cinder type-show ssd
+-----+-----+-----+-----+
---+
| Property          | Value
|
+-----+-----+-----+-----+
---+
| description       | None
|
| extra_specs      | volume_backend_name :
tripleo_ceph_ssdpool |
| id               | 6924bd4d-db05-48e3-97b7-e29204a405a3
|
| is_public        | True
|
| name             | ssd
|
| os-volume-type-access:is_public | True
|
| qos_specs_id     | None
|
+-----+-----+-----+-----+
---+
(overcloud) [stack@director ~]$ cinder create 100 --name testdisk1 --volume-
type ssd
+-----+-----+-----+-----+
-----+
| Property          | Value
|
+-----+-----+-----+-----+
```

```

-----+
| attachments                | []
| availability_zone          | nova
| bootable                   | false
| consistencygroup_id       | None
| created_at                 | 2022-03-10T08:52:45.000000
| description                | None
| encrypted                  | False
| id                         | 5d02afcb-8ef4-47d1-b0e4-397247c815e0
| metadata                   | {}
| migration_status          | None
| multiattach                | False
| name                       | testdisk1
| os-vol-host-attr:host      |
hostgroup@tripleo_ceph_ssdpool#tripleo_ceph_ssdpool |
| os-vol-mig-status-attr:migstat | None
| os-vol-mig-status-attr:name_id | None
| os-vol-tenant-attr:tenant_id | eec3f6c05c8d418bbfe1bf9c1ae53fa8
| replication_status         | None
| size                       | 100
| snapshot_id               | None
| source_volid              | None
| status                     | creating
| updated_at                 | 2022-03-10T08:52:46.000000
| user_id                   | 3108f8a70f9e4db3a57e4234eec30e60
| volume_type                | ssd
+-----+
-----+

```

```
(overcloud) [stack@director ~]$ cinder list
+-----+-----+-----+-----+-----+
| ID                | Status   | Name      | Size |
Volume Type | Bootable | Attached to |
+-----+-----+-----+-----+
| 5d02afcb-8ef4-47d1-b0e4-397247c815e0 | available | testdisk1 | 100  |
| false            |           |           |      |
+-----+-----+-----+-----+
|
```

Multiple Ceph Cluster backend

Ceph Cluster 2

```
parameter_defaults:
  ControllerExtraConfig:
    cinder::config::cinder_config:

      rbd-ssd/volume_backend_name:
        value: rbd-ssd
      rbd-ssd/volume_driver:
        value: cinder.volume.drivers.rbd.RBDDriver
      rbd-ssd/rbd_ceph_conf:
        value: /etc/ceph/ceph2.conf
      rbd-ssd/rbd_user:
        value: openstack
      rbd-ssd/rbd_pool:
        value: volumes
      rbd-ssd/rbd_flatten_volume_from_snapshot:
        value: False
      rbd-ssd/rbd_secret_uuid:
        value: b90a96f8-7bee-41b2-ac0e-bea083261177
      rbd-ssd/report_discard_supported:
        value: True

  cinder_user_enabled_backends: ['rbd-ssd']
```

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