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Openstack multiple cinder backend

Multiple pool backend

Ceph backend 사용시 cinder의 기본 backend pool인 `volumes`외에 추가 pool을 사용하고자 하는 경우 `CinderRbdExtraPools` 속성을 추가한다.

```
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
```

위와같이 추가하게 되면 `hddpool`, `ssdpool` 을 추가 volume backend로 사용할 수 있게 된다.

```
(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 |
+------------------+---------------------------------+------+---------+------
-+----------------------------+
```

2가지 볼륨 서비스가 추가로 기동된것을 확인 할 수 있다.

이후 볼륨 타입을 추가해준다.

```
(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  | ssd
| false    |          |             |
+--------------------------------------+-----------+-----------+------+-----
--------+----------+-------------+
```

Multiple Ceph Cluster backend

이 구성은 아예 Ceph Cluster를 2개 이상 사용하고자 하는 경우에 사용한다.

```
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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Last update: **2022/03/10 09:05**