Create OSD from Inventory page

Cluster >> Inventory

♥ Dashboard Cluster ▼ Pools Block ▼ NFS Filesystems Object Gateway ▼

Cluster » Inventory

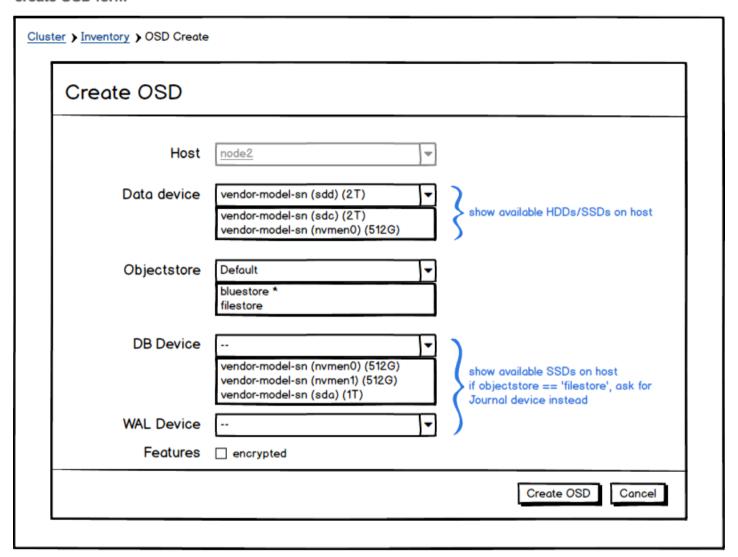
Devices

2. A new button 'Create OSD' is enabled when selecting an available device

+ Create OSD - 10 Q x						
Device path ↓≟	Type ♦	Size \$	Rotates \$	Available \$	Model 	OSD ID \$
vda	hdd	20 GiB	false	false		
vda	hdd	20 GiB	false	false		
vda	hdd	20 GiB	false	false 1. Clic	k available de	vice
vdb	hdd	20 GiB	false	false		0
vdb	hdd	20 GiB	false	false		
vdb	hdd	20 GiB	false	false		
vdc	hdd	20 GiB	false	false		2
vdc	hdd	20 GiB	false	false		
vdc	hdd	20 GiB	false	false		1
	Device path Ji	Device path Ji Type ♦ vda hdd vda hdd vda hdd vdb hdd vdb hdd vdb hdd vdb hdd vdb hdd vdb hdd vdc hdd	Device path ↓ Image: Type → Victor Size → Victor vda hdd 20 GiB vda hdd 20 GiB vda hdd 20 GiB vdb hdd 20 GiB vdb hdd 20 GiB vdb hdd 20 GiB vdb hdd 20 GiB vdc hdd 20 GiB vdc hdd 20 GiB	Device path ↓ Type ◆ Size ◆ Rotates ◆ vda hdd 20 GiB false vda hdd 20 GiB false vda hdd 20 GiB false vdb hdd 20 GiB false vdc hdd 20 GiB false vdc hdd 20 GiB false	Device path I = Type Size Rotates Available Available vda hdd 20 GiB false false vda hdd 20 GiB false false vda hdd 20 GiB false false vdb hdd 20 GiB false false vdb hdd 20 GiB false false vdb hdd 20 GiB false false vdc hdd 20 GiB false false vdc hdd 20 GiB false false	Device path ↓ Type ♦ Size ♦ Rotates ♦ Available ♦ Model ♦ vda hdd 20 GiB false false vda hdd 20 GiB false false vda hdd 20 GiB false false vdb hdd 20 GiB false false vdb hdd 20 GiB false false vdb hdd 20 GiB false false vdc hdd 20 GiB false false vdc hdd 20 GiB false false

Note

· Device list in Cluster->hosts->Inventory tab should work in the same way too

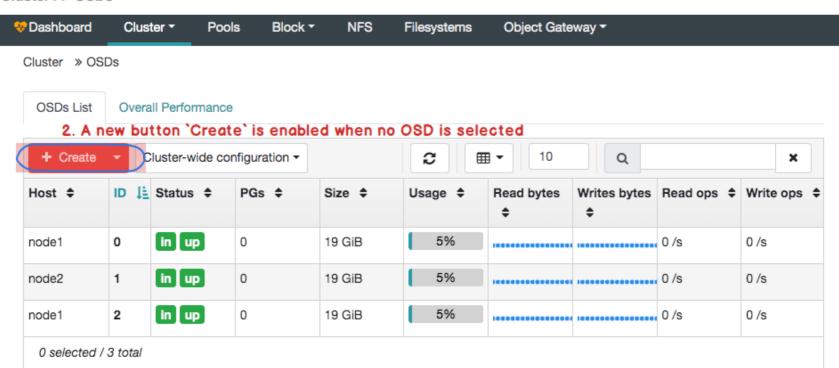


Discussion

- A DB/WAL SSD might be shared between multiple data devices.
- Allocating 'slots' on a SSD.
- · Can we know used/free slots?

Create OSD from OSD page

Cluster >> OSDs



1. get started

Create OSD(s)

1. Get started

How do you want to create OSD(s)?

Select devices

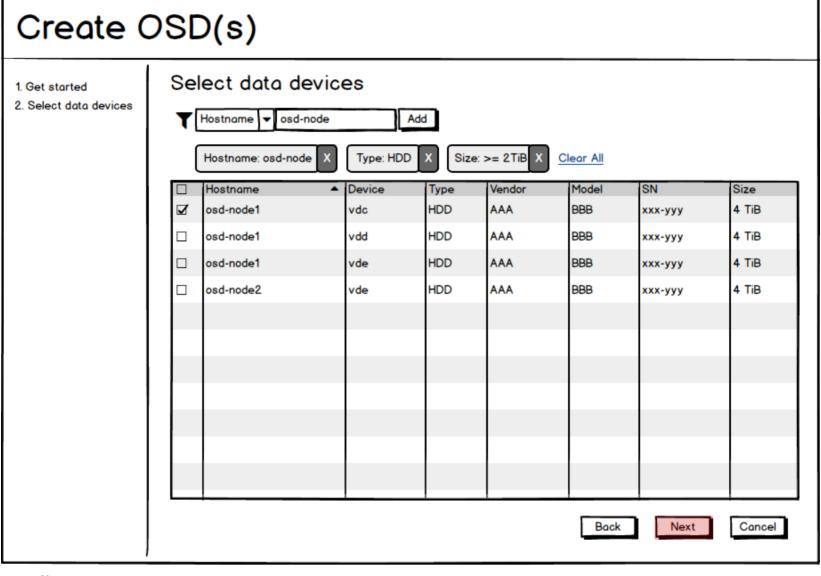
Creating OSDs by selecting devices with filters like Hostname, vendor, model, etc.

O Drive Group specification

Manually entering Drive Group specification in JSON.

Next

2. Select data devices



Note

· For filters, we can implement Attribute-value (textbox) filters. See patternfly

3. Configure data devices

Create OSD(s)

- 1. Get started
- 2. Select data devices
- 3. Configure data devices

Data device configuration



Next

3. Configure data devices (bluestore)

Create OSD(s)

- 1. Get started
- 2. Select data devices
- 3. Configure data devices

Data device configuration

Objectstore

Acceleration Configure WAL devices

bluestore -

☐ Configure DB devices

WAL Slots 5

DB Slots

Features 🗌 Encrypted

Compression

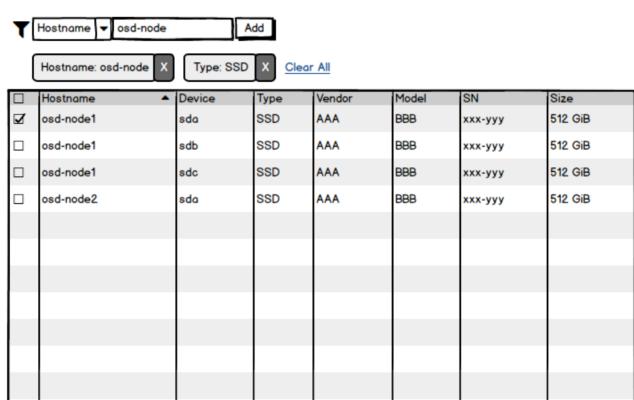
ack Next

4. Configure WAL devices (bluestore)

Create OSD(s)

- 1. Get started
- 2. Select data devices
- 3. Configure data devices
- 4. Configure WAL devices





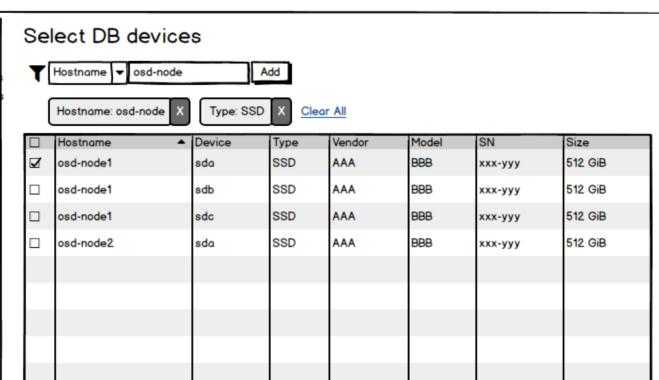
Cancel

Next

5. Configure DB devices (bluestore)

Create OSD(s)

- 1. Get started
- 2. Select data devices
- 3. Configure data devices
- 4. Configure WAL devices
- 5. Configure DB devices



Cancel

Next

Create OSD(s)

- 1. Get started
- 2. Select data devices
- 3. Configure data devices
- 4. Configure WAL devices
- 5. Configure DB devices
- 6. Preview
- 7. Completed

OSD Preview

	Hostname ▲	Data device	WAL device	DB device
☑	osd-node1	AAA-BBB-xxx (sdc, HDD, 2 TiB)	AAA-BBB-yyy (sda, SSD, 512 GiB)	AAA-BBB-yyy (sdb, SSD, 512 GiB)
☑	osd-node1	AAA-BBB-xxx (sdd, HDD, 2 TiB)	AAA-BBB-yyy (sda, SSD, 512 GiB)	AAA-BBB-yyy (sdb, SSD, 512 GiB)
☑	osd-node1	AAA-BBB-xxx (sde, HDD, 2 TiB)	AAA-BBB-yyy (sda, SSD, 512 GiB)	AAA-BBB-yyy (sdb, SSD, 512 GiB)
☑	osd-node2	AAA-BBB-xxx (sdc, HDD, 2 TiB)	AAA-BBB-yyy (sda, SSD, 512 GiB)	AAA-BBB-yyy (sdb, SSD, 512 GiB)
Г				
Г				
Г				
L				

4 selected / 4 total

Back Create

7. Completed (bluestore)

Create OSD(s)

- 1. Get started
- 2. Select data devices
- 3. Configure data devices
- 4. Configure WAL devices
- 5. Configure DB devices
- 6. Preview

Sending requests...

Done

3. Configure data devices (filestore)

Create OSD(s)

- 1. Get started
- 2. Select data devices
- 3. Configure data devices

Data device configuration

Features

Objectstore filestore ▼

Acceleration

Configure journal devices

Journal Slots

Encrypted

Compression

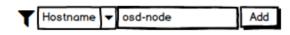
Next

4. Configure journal devices (filestore)

Create OSD(s)

- 1. Get started
- 2. Select data devices
- 3. Configure data devices
- 4. Configure journal devices





Hostname: osd-node X Type: SSD X Clear All

	Hostname 🔺	Device	Туре	Vendor	Model	SN	Size
☑	osd-node1	sda	SSD	AAA	BBB	xxx-yyy	512 GiB
	osd-node1	sdb	SSD	AAA	BBB	ххх-ууу	512 GiB
	osd-node1	sdc	SSD	AAA	BBB	ххх-ууу	512 GiB
	osd-node2	sda	SSD	AAA	BBB	ххх-ууу	512 GiB

1 selected / 4 total

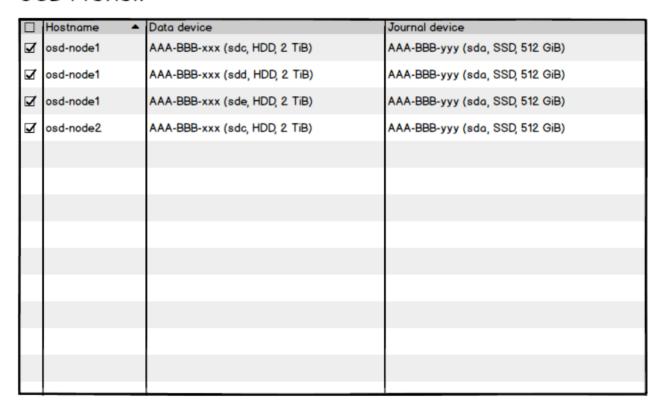
Next

5. Preview (filestore)

Create OSD(s)

- 1. Get started
- 2. Select data devices
- 3. Configure data devices
- 4. Configure WAL devices
- 5. Preview

OSD Preview



4 selected / 4 total

Back Cr

Create

6. Completed (filestore)

Create OSD(s)

- 1. Get started
- 2. Select data devices
- 3. Configure data devices
- 4. Configure WAL devices
- 5. Preview
- 6. Completed

Sending requests...

V

Done

Create OSD(s)

- 1. Get started
- 2. Input Drive Group Spec

Drive Group Specification (JSON format)

```
"host_pattern": "osd*",
"data_devices": {
  "size": ":2T",
  "rotates": 1
```

Back

Next

Cancel

Note

· DriveGroupSpec should be validated

Create OSD(s)

- 1. Get started
- 2. Input Drive Group Spec
- 3. Preview

OSD Preview

Hostname ▲	Data device	WAL device	DB device
osd-node1	AAA-BBB-xxx (sdc, HDD, 2 TiB)	AAA-BBB-yyy (sda, SSD, 512 GiB)	AAA-BBB-yyy (sdb, SSD, 512 GiB)
osd-node1	AAA-BBB-xxx (sdd, HDD, 2 TiB)	AAA-BBB-yyy (sda, SSD, 512 GiB)	AAA-BBB-yyy (sdb, SSD, 512 GiB)
osd-node1	AAA-BBB-xxx (sde, HDD, 2 TiB)	AAA-BBB-yyy (sda, SSD, 512 GiB)	AAA-BBB-yyy (sdb, SSD, 512 GiB)
osd-node2	AAA-BBB-xxx (sdc, HDD, 2 TiB)	AAA-BBB-yyy (sda, SSD, 512 GiB)	AAA-BBB-yyy (sdb, SSD, 512 GiB)

4 selected / 4 total

Back

Create

Cancel

Note

· The column depends on objectstore type

4. Completed

Create OSD(s)

- 1. Get started
- 2. Input Drive Group Spec
- 3. Preview
- 4. Completed

Sending requests...

Done

Remove OSD (TBD)

Replace OSD (TBD)