

Open Infrastructure - Task #5770

Create a howto: how we maintain our disks and ceph cluster(s)

10/05/2018 09:22 AM - Nico Schottelius

Status:	Rejected	Start date:	10/05/2018
Priority:	Normal	Due date:	10/08/2018
Assignee:	Samuel Hailu	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
PM Check date:			

Description

- Detailed explanation
- Including commands of megacli
- Including motivation

Disk handling

Our servers are using Perc H700 or H800 disk controllers. The tool **megacli** can be used to manage them.

Handling foreign configuration

When plugging a disk into a server that was configured / used in a different server before, we need to clear the previous configuration.

Listing all known foreign configuration using **megacli -CfgForeign -Scan -aALL**.

Remove/clear the foreign configuration using

```
# for instance -L5 -a0 or -L2 -a1
megacli -DiscardPreservedCache -L<slot-or-ID> -a<Controller>
```

Removal of a disk

If a (dead or intact) disk is being removed from the system, the system will HANG on the next reboot, complaining about it missing. For that reason AFTER removing a disk, we need to "clear the cache":

```
# Get list of caches that need to be cleared
megacli -GetPreservedCacheList -aALL

# Clear cache: -L0 -a1
megacli -DiscardPreservedCache -L<??> -a<controller>
```

How to move an OSD (Disk, SSD) to another server

- Use ceph-osd-stop-disable from ungleich tools to stop / disable the OSD
- Clear the raid controller information
- Insert disk into new host
- Clear the foreign configuration (megacli)
- [add it to the system with megacli]
- OSD should automatically come up afterwards
  - Check using **ceph osd tree**

History

#1 - 10/17/2018 01:26 PM - Nico Schottelius

- Description updated
- Status changed from New to In Progress

**#2 - 10/17/2018 01:27 PM - Nico Schottelius**

- Description updated

**#3 - 10/17/2018 02:07 PM - Nico Schottelius**

- Subject changed from Create a howto: how we maintain our ceph cluster(s) to Create a howto: how we maintain our disks and ceph cluster(s)

- Description updated

**#4 - 10/17/2018 02:10 PM - Nico Schottelius**

- Description updated

**#5 - 10/17/2018 02:10 PM - Nico Schottelius**

- Description updated

**#7 - 06/24/2019 05:49 PM - Mirjana Rupar**

Samuel, what is the status of this task now, please?

**#8 - 06/27/2019 01:49 PM - Samuel Hailu**

- This is not a task, this Wiki and it is related to my command-book which belongs to me.
- But this this wiki has been used by [@Roland Zweifel@Jin-Guk Kwon](#) @auer
- So it is more like open for everyone but not a task
- it can be set to closed or progress or anything

**#9 - 06/27/2019 04:46 PM - Nico Schottelius**

- Status changed from In Progress to Rejected

[redmine@ungleich.ch](mailto:redmine@ungleich.ch) writes: