

Ceph Operations Toolkit: Ideas and Prototypes

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Ceph Days Seattle - May 28, 2026

Sneak Peek at Clyso's Cool Tools



- Sharing an early preview of what our team is working on
- analyzer.clyso.com
- [WIP - Durability Calc](#)
- CLYSO Rescue Container

```
[root@debian-1 /]#  
[root@debian-1 /]#  
[root@debian-1 /]#  
[root@debian-1 /]# otto checkout  
Running tests: X!X...X.!.....X...X!...!!  
Overall score: 27.5 out of 35 (F)  
- FAIL in Cluster/Health: HEALTH_ERR with 2 warnings  
- WARN in Version/Release: Not running a recommended stable release  
- FAIL in Version/Check for Known Issues in Running Version: CRITICAL: Found 1 high severity bugs(s) in running version 20.2.0  
- FAIL in Pools/Recommended Flags: Some pools have missing flags  
  WARN in Pools/Pool Autoscale Mode: pg_autoscaler is on which may cause unexpected data movement  
- FAIL in OSD Health/Check BlueFS DB/Journal is on Flash: All OSDs have bluefs db/wal or journal on rotational device  
- FAIL in OSD Health/OSD host memory: All OSD hosts have insufficient memory  
- WARN in OSD Health/OSD host swap: All OSD hosts have swap enabled  
- WARN in OSD Health/Dedicated Cluster Network: Public and Cluster Networks are Shared  
- WARN in Configuration/OSD Operation Queue: OSD operation queue not explicitly configured to use wpq  
Use --verbose or --summary for details and recommendations  
[root@debian-1 /]#  
[root@debian-1 /]#  
[root@debian-1 /]#
```

```
[root@debian-1 /]#  
[root@debian-1 /]#  
[root@debian-1 /]# otto  
the following arguments are required: {cluster, pool, toolkit}  
usage: otto [-h] [--version] {help,checkup,osd,pg,cephfs,rgw,upmap-remapped,toolkit} ...
```

Otto: Your Expert Ceph Assistant.

options:

-h, --help	show this help message and exit
--version, -v, -V	show program's version number and exit

subcommands:

valid subcommands

{help,checkup,osd,pg,cephfs,rgw,upmap-remapped,toolkit}	
help	Show this help message and exit
checkup	Perform an overall health and safety check on the cluster
osd	OSD-related operations and analysis
pg	List of scripts related to placement groups (PG)
cephfs	CephFS-related operations and analysis
rgw	RGW-related operations and analysis
upmap-remapped	PG upmap tools to quickly make remapped PGs active+clean
toolkit	A selection of useful Ceph Tools

```
[root@debian-1 /]#  
[root@debian-1 /]#  
[root@debian-1 /]#
```

CEPH
health: HEALTH_ERR
fsid: 96bf2112-9b0c-11f0-8b4e-bc2
41105e97c
version: 20.2.0

CLIENT I/O
Read: 255.0 B/s 0 ops/s
Write: 0 B/s 0 ops/s

RECOVERY
Bytes: 0 B/s
Ops: 0 obj/s

PGS
Total: 545

Active: 545
Recovering: 0
Scrubbing: 0
Inactive: 0



UID	DisplayName	Email	Max Buckets	Used	Quota	Usage %	Objects	Max Objects
dashboard	Ceph Dashboard		1000	0B	No Limit	-	0	No Limit
admin-api-user	Admin API User		1000	2.2GiB	No Limit	-	300	No Limit
samtest	Sam Test User	sam.goyal@clyso.com	1000	2.2GiB	5.0 GiB	44.6%	2204	6000

<a> add user <d> delete user <u> user quota <i> user info <enter> view buckets

<users>

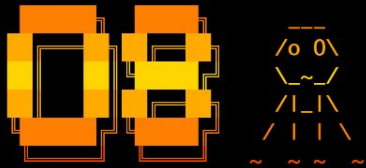
CEPH
health: HEALTH_ERR
fsid: 96bf2112-9b0c-11f0-8b4e-bc2
41105e97c
version: 20.2.0

CLIENT I/O
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GLOBAL

- <q> quit
- <r> refresh
- <?> toggle help
- <:> command prompt

VIEWS

- <:users, :u> manage users
- <:buckets, :b> manage buckets
- <:ratelimit, :r> manage ratelimits
- <:usage, :U> manage usage
- <:cephstatus, :c> view ceph status
- <:capacity, :d> cluster capacity
- <:pools, :p> pool details
- <:pg, :pg> pg details
- <:hosts, :h> host details
- <:services, :s> service details
- <:checkup, :a> cluster analysis

NAVIGATION

- <↑> move up
- <↓> move down and find out
- <←> scroll left
- <→> scroll right
- <esc> back

ACTIONS

- <a> add user
- <m> modify user
- <d> delete user
- <u> user quota
- bucket quota
- <s> sync stats
- <enter> view buckets
- <i> user details
- <y> confirm
- <n> cancel