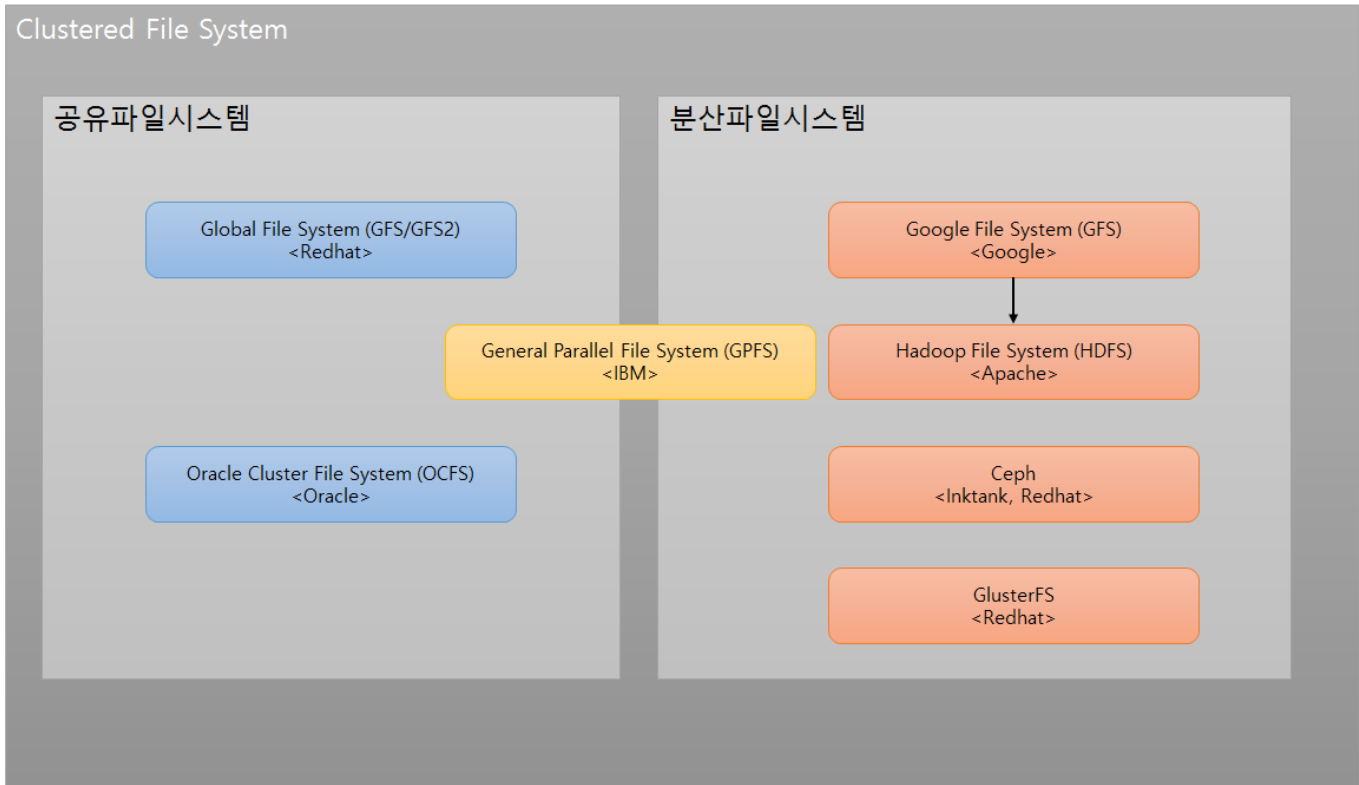


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- GlusterFS** 5
- GFS2** 5
- Ceph** 5
 - Ceph 6
 - Ceph 1.3 (Hammer v0.94) 7
 - Ceph 3 (Luminous v12.x) 7
 - Ceph 4 (Nautilus 14.x) 7
 - Ceph 5 (Pacific 16.x) 7
 - Ceph 7
- Lustre** 8
 - 8



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					()		(2026)
1	MinIO	2014	Object (S3 API)	(/ KV)	AI/ML S3 (K8s)	(AGPL v3)	1 AI
2	Ceph	2006	(Block, Object, File)	CRUSH (/ MDS)	가 가 K8s PV (Proxmox, OpenStack 가)	(LGPL v2.1/v3)	.
3	IBM Storage Scale (GPFS)	1998	File (POSIX) Object		AI HPC (NVIDIA DGX GPU R/W)	()	1 AI /

					()		(2026)
4	Hadoop (HDFS)	2006	File (Append)	(NameNode)	(.)	(Apache 2.0)	.
5	WekaIO (WekaFS)	2017	File (POSIX) Object	()	AI/GPU 가 LLM (GPU)	()	AI 가
6	Lustre	2003	File (POSIX)	(MDS / MDT)	()	(GPL v2)	(Top500) 가 1 .
7	GlusterFS	2005	File (POSIX)	()	(가)	(GPL v3)	가. Ceph .
8	Longhorn	2019	Block, File	K8s (CRD)	(K8s DB PVC)	(Apache 2.0)	CNCF , 가 .
9	JuiceFS	2021	File (POSIX)	DB (Redis, TiKV, MySQL)	(S3)	(AGPL v3)	가 .
10	BeeGFS	2014	File (POSIX)	()	AI GPU ()	()	Lustre GPU .

					()		(2026)
11	SeaweedFS	2015	File, Object	(Haystack)	(Small Files)	(Apache 2.0)	가 IT
12	DAOS	2019	Object / POSIX	(PMEM)	(I/O)	(BSD 2-Clause)	.

GlusterFS

- [Gluster Storage and Virtualization Compatibility](#)
- [GlusterFS 가](#)
- [GlusterFS Quick Start](#)
- [GlusterFS - Commands](#)
- [Gluster With Heketi REST API](#)

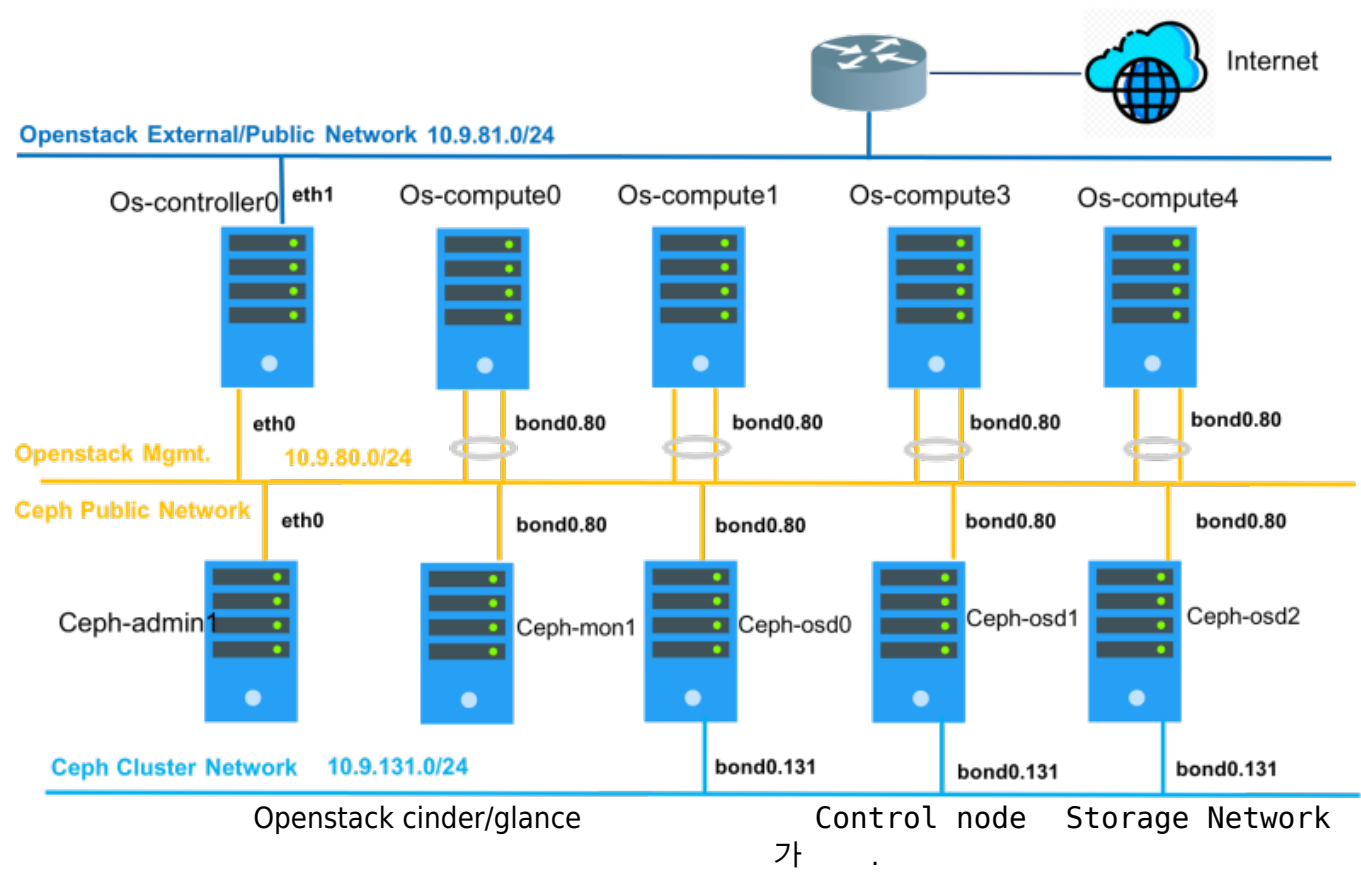
GFS2

- [GFS2 MetaData Unsync WithDraw](#)
- [GFS2 journal lock](#)
- [GFS2 lock dump](#)
- [multipath error getting device](#)

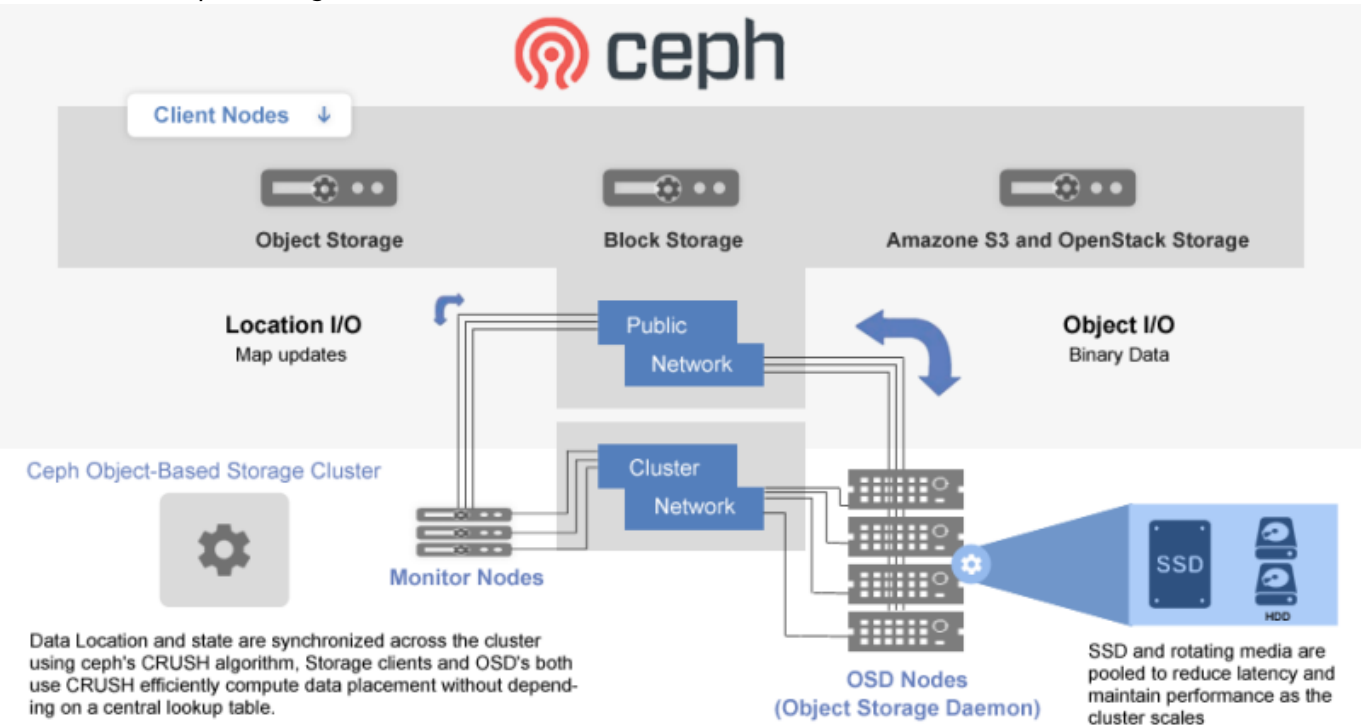
Ceph

Ceph Network Architecture .

1. Openstack



2. Ceph Storage



Ceph

-
- Ceph
- Ceph Codename - Version

- Ceph Compatibility Matrix
- Ceph RedHat - Community version
- Ceph Quick Start
- Ceph Storage PG reduce
- Linux
- Redhat Ceph Storage Lifecycle
- - Ceph RBD with Samba HA (Pacemaker,LVM)
- Ceph Storage install in RHEL/CentOS
- Ceph HEALTH_WARN with 'mons are allowing insecure global_id reclaim'
- PG auto-scaling
- remove all objects from a pool
- Pool delete
- Ceph - MDS Reporting Slow requests
- Ceph cluster shutdown process
- Ceph openstack

Ceph 1.3 (Hammer v0.94)

- Ceph /
- Ceph Storage CRUSH map
- Ceph OSD 가 /
- Ceph Configuration
- Ceph OSD Failed Disk
- Ceph rbd lvm volume

Ceph 3 (Luminous v12.x)

- Ceph Journal disk
- Ceph OSD node
- CEPH pg,object repair - ceph status
- pg down peering warning

Ceph 4 (Nautilus 14.x)

- 1 daemons have recently crashed
- Ceph 4 failed disk

Ceph 5 (Pacific 16.x)

Ceph

- Kraken 11.0

OSD	
OSD	
OSD	/etc/init.d/ceph stop osd.28 /sbin/stop ceph-osd id=28

- Luminous 12.0

systemd	
	systemctl stop ceph-[DAEMON_TYPE@\$ID]
OSD	systemctl stop ceph-osd.target
	systemctl stop ceph.target
	systemctl start ceph-[DAEMON_TYPE@\$ID]
OSD	systemctl start ceph-osd.target
	systemctl start ceph.target
	systemctl restart ceph-[DAEMON_TYPE@\$ID]
OSD	systemctl restart ceph-osd.target
	systemctl restart ceph.target

Lustre

<https://www.lustre.org/>

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