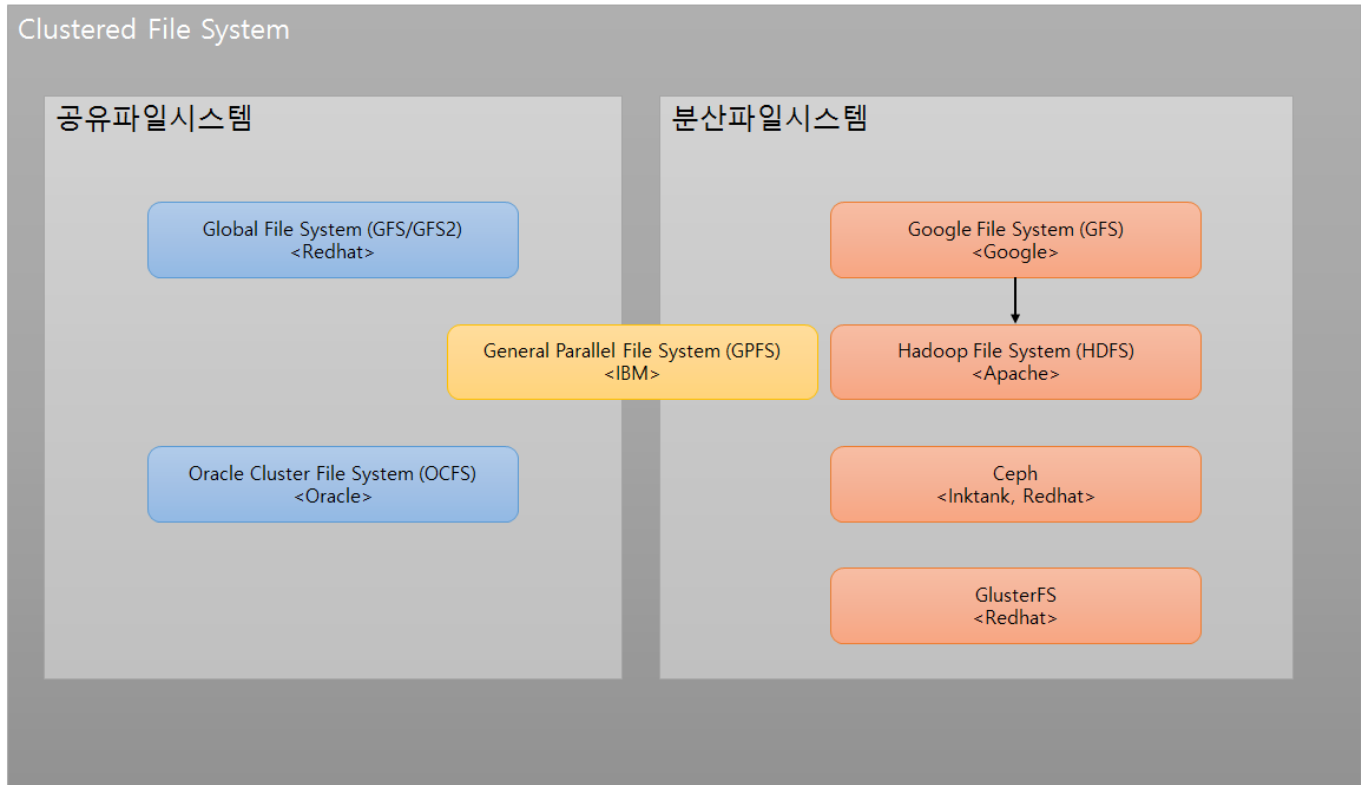


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- GlusterFS** 6
- GFS2** 6
- Ceph** 6
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 - Ceph 3 (Luminous v12.x) 8
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 - Ceph 5 (Pacific 16.x) 8
 - Ceph 8
- Lustre** 9
 - 9



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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)	.

					()		(2026)
1	VMware VMFS	2002	Block (가)	SCSI (ATS/VAAI)	(ESXi SAN VM 가)	(Broadcom)	가 1 . 가 .
2	IBM Storage Scale (GPFS - SAN)	1998	File (POSIX)		AI SAN (가 SAN)	(IBM)	1 . SAN .
3	Veritas Cluster File System (VxCFS / InfoScale)	1998	File (POSIX)	(CVM) /	DB (Unix/Linux)	(Veritas)	.
4	StorNext (Quantum)	1999	File (POSIX)	(MNC / Non-Data)	(4K/8K 가)	(Quantum)	1 . .

					()		(2026)
5	GFS2	2006	Block direct (POSIX)	(DLM) Pacemaker	Active-Active (HA) 가 / (가 R/W)	(GPL v2)	(RHEL) 가
6	OCFS2	2005	Block direct (POSIX)	(o2cb)	Oracle RAC (가 DB)	(GPL v2)	SUSE (Niche)

GlusterFS

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

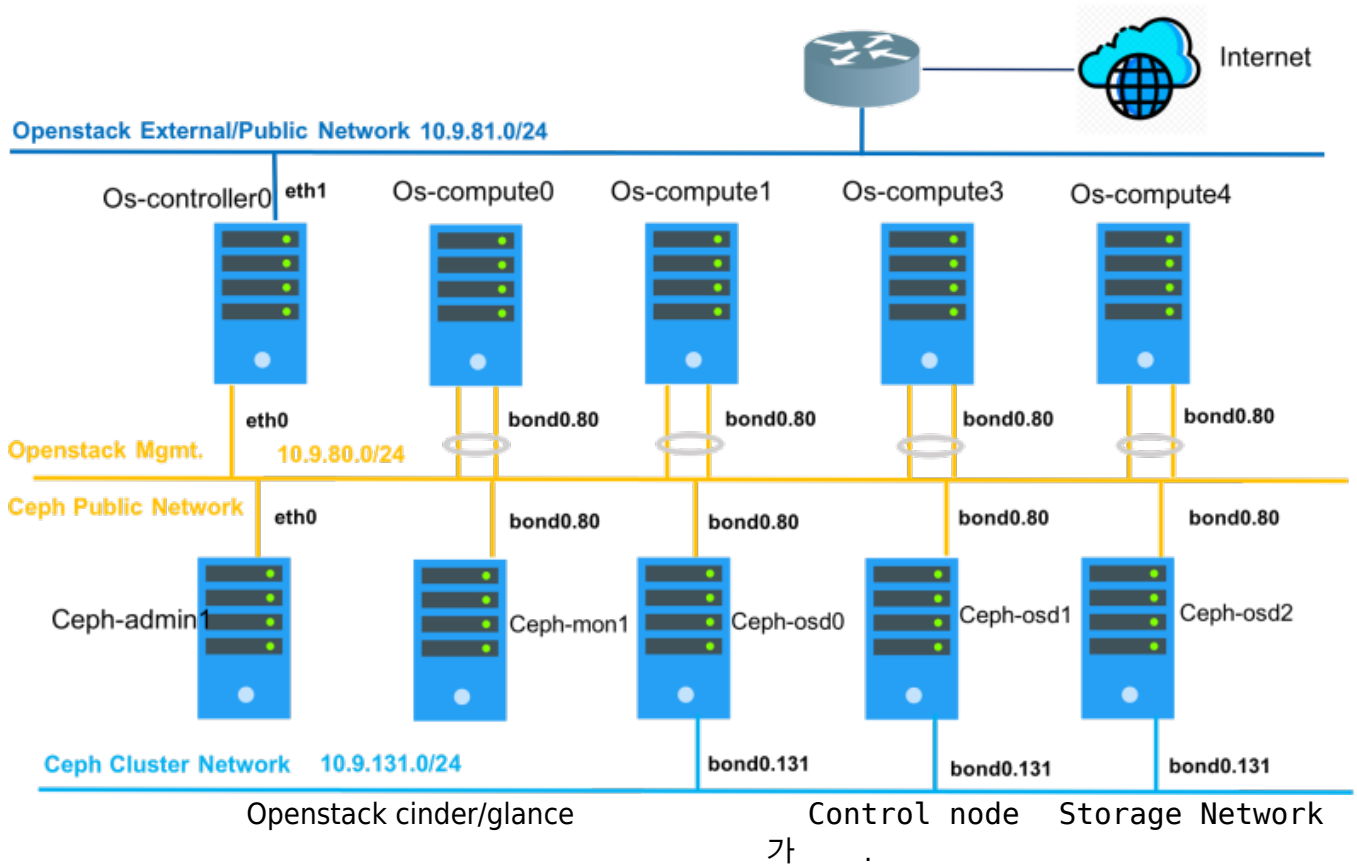
GFS2

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

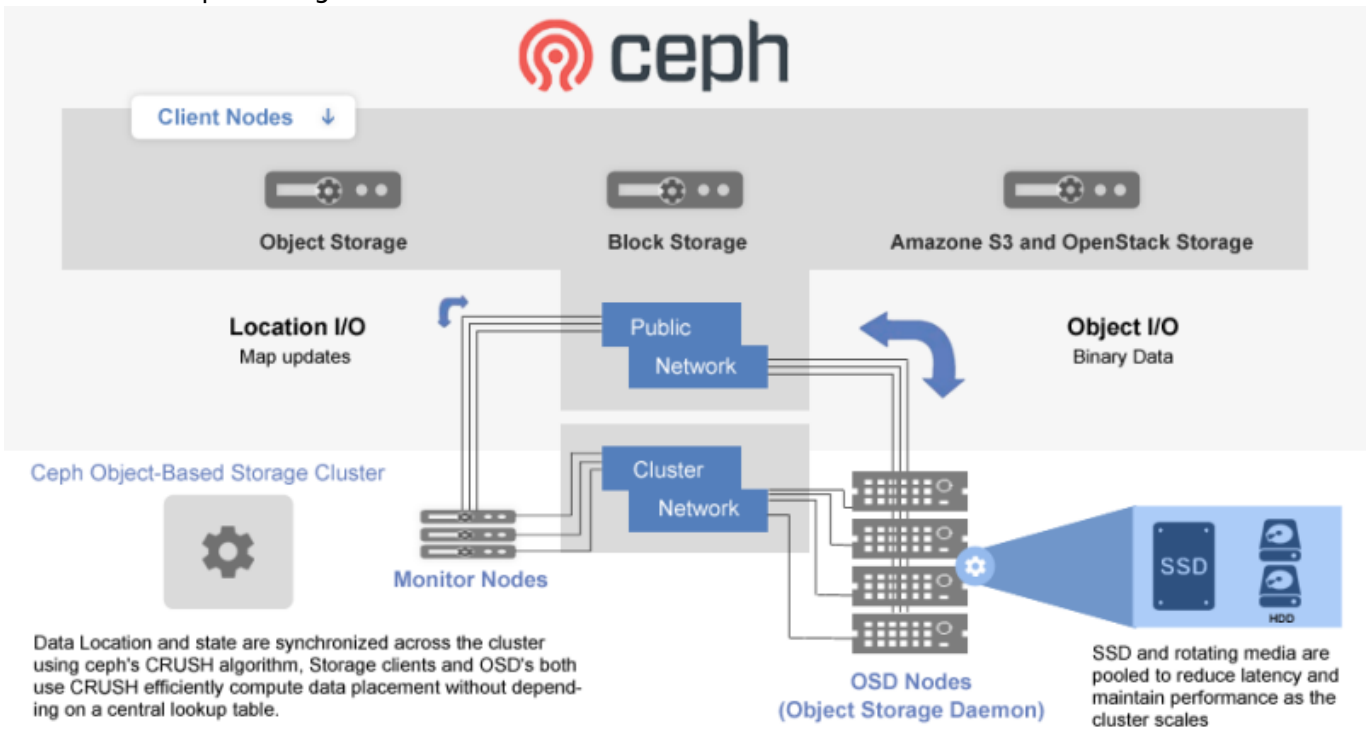
Ceph

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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