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# Ceph

## Upstream Release Cadence

Ceph .( Candidate) 2 2 ) LTS(Long Term Support) 0 2 1 A-Z Infernalis RC(Release

## Upstream Ceph Versions

Release code name	Version	LTS	Release date	Retirement date
Argonaut	0.48.x		July 2012	retired
Bobtail	0.56.x		January 2013	retired
Cuttlefish	0.61.x		May 2013	retired
Dumpling	0.67.x	Yes	August 2013	May 2015
Emperor	0.72.x		November 2013	May 2014
Firefly	0.80.x	Yes	May 2014	December 2015
Giant	0.87.x		October 2014	May 2015
Hammer	0.94.x	Yes	April 2015	August 2017
Infernalis	9.2.x		November 2015	April 2016
Jewel	10.2.x	Yes	April 2016	June 2018
Kraken	11.2.x		January 2017	August 2017
Luminous	12.2.x	Yes	August 2017	
Mimic	13.x.x	?	In development	

## Redhat Ceph Storage Version

Redhat Ceph Storage Ceph LTS

Release	Upstream code name	Upstream version	General Availability	End of Life
Inktank Ceph Enterprise 1.1	Dumpling	0.67.x	February 2014	July 2015
Red Hat Ceph Storage 1.2	Firefly	0.80.x	July 2014	May 2016
Red Hat Ceph Storage 1.3	Hammer	0.94.x	June 2015	June 2018
Red Hat Ceph Storage 2	Jewel	10.2.x	August 2016	August 2019
Red Hat Ceph Storage 3	Luminous	12.2.x	December 2017	December 2020
Red Hat Ceph Storage 4			January 31, 2020	January 31, 2023

- <https://access.redhat.com/articles/1372203>
- <https://www.redhat.com/en/topics/data-storage>

Hardware	ceph-osd	ceph-mon	ceph-radosgw	ceph-mds
Processor	1x AMD64 or Intel 64	1x AMD64 or Intel 64	1x AMD64 or Intel 64	1x AMD64 or Intel 64
RAM	16 GB for the host, plus an additional 2 GB of RAM per OSD daemon	1 GB per daemon	1 GB per daemon	1 GB per daemon (but depends heavily on configured MDS cache size)
Disk	One storage device per OSD daemon, separate from the system disk	10 GB per daemon	5 GB per daemon	1 MB per daemon, plus space for log files (varies)
Network	2x Gigabit Ethernet NICs	2x Gigabit Ethernet NICs	2x Gigabit Ethernet NICs	2x Gigabit Ethernet NICs

OSD

OSD 가

OSD 가 가

가 가 10 가

. 10 가 12 OSD . (12 OSD 10G, 48 OSD = 40G )

## Redhat Ceph Storage

- Monitor node 3
- OSD node 3
- MGR node 2
- OSD Disk (3copy replication 3 )
- MDS node 2 (CephFS )
- RADOSGW 2 (Object Gateway )
- Ceph Storage Admin node( . )

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