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# Ceph

## Upstream Release Cadence

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

## 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	12.2.13	Yes	August 2017	
Mimic	13.2.10	※	2018-03-01	2020-06-01
Nautilus	14.2.14	※	2019-03-01	2021-06-01
Octopus	15.2.7	※	2020-03-01	2022-06-01

※ Luminous LTS 2

## Redhat Ceph Storage Version

Redhat Ceph Storage Ceph LTS

Release	Upstream code name	Upstream version	General Availability	End of Life	ELS add-on
Inktank Ceph Enterprise 1.1	Dumpling	0.67.x	2014-02-04	2015-07-31	N/A
Red Hat Ceph Storage 1.2	Firefly	0.80.x	2014-07-16	2016-05-31	N/A
Red Hat Ceph Storage 1.3	Hammer	0.94.x	2015-06-25	2018-06-30	on request
Red Hat Ceph Storage 2	Jewel	10.2.x	2016-08-25	2019-11-16	2021-12-17

Release	Upstream code name	Upstream version	General Availability	End of Life	ELS add-on
Red Hat Ceph Storage 3	Luminous	12.2.x	2017-12-05	2021-02-28	2023-06-27
Red Hat Ceph Storage 4	Nautilus	14.2.x	2020-01-31	2023-01-31	2025-04-30

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

## 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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