Roadmap

Information about the upcoming mainline releases based on the information from the hadoop mailing lists.

- Feature freeze date: all features should be merged
- Code freeze date - blockers/critical only, no more improvements and non blocker/critical bug-fixes

Please also see, EOL (End-of-life) release branches.

Upcoming releases

- **3.4.0**
- **3.3.2**
- **3.2.3**

Feature freeze date	NA
Code freeze date	NA
Planned release date	
Actual release date	
Release Manager:	
Branch	branch-3.2
Release Status	Hadoop 3.2 Release

- **2.10.2**

For more details, please check Hadoop Active Release Lines

Old releases (Released)

Information about old releases only for the records here. For the final features included in a given release please check the official release notes.

3.2.2

Feature freeze date	Sep 30, 2020
Code freeze date	Oct 15, 2020
Planned release date	Dec 20, 2020

Actual release date	Jan 15, 2021
Release Manager:	He Xiaoqiao
Branch	branch-3.2

3.1.4

Feature freeze date	Wednesday, 11 March 2020
Code freeze date	Wednesday, 22 April 2020
Planned release date	Wednesday, 29 April 2020
Actual release date	
Release Manager:	Gabor Bota
Branch	branch-3.1

Planned features: Hadoop 3.1 Release

3.3.0

Feature freeze date	Feb 28, 2020
Code freeze date	March 10, 2020
Planned release date	March 15, 2020
Actual release date	July 14,2020
Release Manager:	Brahma Reddy Battula
Branch	trunk

Planned features:

YARN features

	JIRA	Summary	Component	Feature Owner	Comments	Status
1.	YARN-9414	Application Catalog for YARN applications	YARN	Eric Yang		**Merged**
2.	YARN-5542	Scheduling of opportunistic containers	YARN	Konstantinos Karanasos /Abhishek Modi		**Merged**
3.	YARN-9473	Support Vector Engine (a new accelerator hardware) based on pluggable device framework	YARN	Peter Bacsko		**Merged**
4.	YARN-9264	[Umbrella] Follow-up on IntelOpenCL FPGA plugin	YARN	Peter Bacsko		**Merged**
5.	YARN-9145	[Umbrella] Dynamically add or remove auxiliary services	YARN	Billie Rinaldi		**Merged**
6.	YARN-9050	[Umbrella] Usability improvements for scheduler activities	YARN	Tao Yang		**Merged**
7.	YARN-8851	[Umbrella] A pluggable device plugin framework to ease vendor plugin development	YARN	Zhankun Tang		**Merged**
8.	YARN-9014	runC container runtime	YARN	Eric Badger		**Merged Partially**

HDFS Features:

	JIRA	Summary	Component	Feature Owner	Comments	Status
1.	HDFS-13891	HDFS RBF stabilization phase	HDFS	Brahma Reddy Battula		**Merged**
2.	HDFS-12345	Scale testing HDFS NameNode with real metadata and workloads (Dynamometer)	HDFS	Erik Krogen		**Merged**

3.	HDFS-13762	Support non-volatile storage class memory(SCM) in HDFS cache directives	HDFS	Feilong He		**Merged**

Common Features:

	JIRA	Summary	Component	Feature Owner	Comments	Status
1.	HADOOP-16095	Support impersonation for AuthenticationFilter	Common	Eric Yang		**Merged**
2.	HADOOP-15620	Über-jira: S3A phase VI: Hadoop 3.3 features	Common	Steve Loughran		**Merged** Partially
3.	HADOOP-15763	Über-JIRA: abfs phase II: Hadoop 3.3 features & fixes	Common	Steve Loughran		**Merged Partially**
4.	HADOOP-15338	Java 11 runtime support	Common	Akira Ajisaka		**Merged**
5.	HADOOP-15619	Über-JIRA: S3Guard Phase IV: Hadoop 3.3 features	Common	Steve Loughran		**Merged Partially**
6.	HADOOP-13363	Upgrade protobuf from 2.5.0 to something newer	Common	Vinay		**Merged**

2.10.0

Feature freeze date	
Code freeze date	
Planned release date	2019
Actual release date	Oct 31, 2019
Release Manager:	Jonathan Hung
Branch	branch-2

Planned features:

YARN features

	JIRA	Summary	Component	Feature Owner	Comments	Status
1.	YARN-8200	Backport resource types/GPU features to branch-2	YARN	Jonathan		**Merged to branch-2.10**

HDFS Features:

	JIRA	Summary	Component	Feature Owner	Comments	Status
1.	HDFS-12943	Consistent Reads from Standby Node	HDFS	Konstantin		**Merged**
2.	HDFS-13541	NameNode Port based selective encryption	HDFS	Chen		**Merged**
3.	HDFS-14403	Cost-Based RPC Fair Call Queue	HDFS	Erik		**Merged**

3.1.3

Feature freeze date	Aug 25, 2019
Code freeze date	Aug 30, 2019
Planned release date	Sep 07, 2019
Actual release date	
Release Manager:	Zhankun Tang
Branch	branch-3.1

Planned features:

3.2.1

Feature freeze date	Aug 30, 2019

Code freeze date	Aug 30, 2019
Planned release date	Sept 7, 2019
Actual release date	Sept 22, 2019
Release Manager:	Rohith Sharma K S
Branch	branch-3.2

3.2.0

Feature freeze date	Sep 7, 2018
Code freeze date	Sep 14, 2018
Planned release date	Sept 30, 2018
Actual release date	Jan 8, 2019
Release Manager:	Sunil Govindan
Branch	trunk

Planned features:

YARN features

	JIRA	Summary	Component	Feature Owner	Comments	Status
1.	YARN-3409	Node Attributes Support in YARN	YARN	Naganarasimha/ Sunil		**Merged**
2.	~~YARN-1011~~	~~Resource Overcommitment~~	~~YARN~~	~~Haibo / Miklos~~		~~Moved Out~~
3.	YARN-8135	Hadoop Submarine project for DeepLearning workloads	YARN	Wangda		**Merged**
4.	~~YARN-7129~~	~~Application Catalog for YARN applications~~	~~YARN~~	~~Eric Yang~~		~~Moved Out~~
5.	YARN-7512	Support service upgrade via YARN Service API and CLI	YARN	Chandni		**Merged**
6.	YARN-5742	Serve aggregated logs of historical apps from ATSv2	YARN	Rohith Sharma		**Merged**

HDFS Features:

	JIRA	Summary	Component	Feature Owner	Comments	Status
1.	HDFS-10285	HDFS Storage Policy Satisfier	HDFS	Uma		**Merged**
2.	HDFS-12615	Router-based HDFS federation	HDFS	Inigo	Improvement Works	**Merged**

Common Features:

	JIRA	Summary	Component	Comments	Comments
1.	HADOOP-15226	S3Guard Phase III	Common	Steve Loughran	**Merged**
2.	HADOOP-15220	S3a phase V	Common	Steve Loughran	**Merged**
3.	HADOOP-15407	Support Windows Azure Storage - Blob file system in Hadoop	Common	Da Zhou/Steve Loughran	**Merged**

Version 3.1

Feature freeze date	Jan 30, 2018
Code freeze date	Feb 08, 2018
Planned release date	Feb 28, 2018
Release Manager:	Wangda Tan
Branch	trunk

YARN features

	JIRA	Summary	Component	Feature Owner	Comments	Status
1.	YARN-5079, YARN-4793, YARN-4757, YARN-6419	YARN native services	YARN	Jian He		**Merged**
2.	YARN-5734	Dynamic scheduler queue configuration	YARN	Jonathan / Xuan	Also 2.9	**Merged**
3.	YARN-5881	Add absolute resource configuration to CapacityScheduler	YARN	Sunil G		**Merged**
4.	~~YARN-5673~~	~~Container executor rewrite for better security, extensibility and portability~~	~~YARN~~	~~Varun V~~		~~Move out~~
5.	YARN-6223	GPU Isolation	YARN	Wangda		**Merged**
6.	~~YARN-5972~~	~~Support Pausing/Freezing of opportunistic containers~~	~~YARN~~	~~Arun Suresh~~		~~Move out~~
7.	YARN-3926	Resource Profile and multiple resource types	YARN	Varun V / Sunil	Maybe 3.0	**Merged**
8.	~~YARN-1011~~	~~Resource overcommittment~~	~~YARN~~	~~Haibo / Karthik K~~	~~Under discussion~~	~~Move out~~
9.	YARN-6592	Support rich placement constraints in YARN	YARN	Arun Suresh / Kostas / Wangda	Tentative	**Merged**
10.	YARN-7117	Capacity Scheduler: Support Auto Creation of Leaf Queues While Doing Queue Mapping	YARN	Suma		**Merged**
11.	YARN-5983	FPGA support				**Merged**

HDFS Features:

	JIRA	Summary	Component	Feature Owner	Comments
~~1.~~	~~HDFS-10285~~	~~HDFS Storage Policy Satisfier~~	~~HDFS~~	~~Uma~~	~~Move out~~
2.	HDFS-9806	HDFS tiered storage	HDFS	Chris Douglas	**Merged**
~~3.~~	~~HDFS-7240~~	~~Ozone: Object store for HDFS~~	~~HDFS~~	~~Anu~~	~~Move out~~

Common Features:

	JIRA	Summary	Component	Comments	Comments
1.	HADOOP-13786	Add S3Guard committer for zero-rename commits to S3 endpoints	HDFS	Steve Loughran	**Merged**

Version 2.9

Feature freeze date	~~6th October 2017~~ 20th October 2017
Code freeze date	~~20th October 2017~~ 27th October 2017
Planned release date	~~3rd November 2017~~ 17th November 2017
Release Manager:	Subru Krishnan, Arun Suresh
Tracking Page	Hadoop 2.9 Release
Branch	branch-2

Planned features:

	JIRA	Summary	Component	Feature Owner	Production Deployment Sponsor(*)	Status
1.	YARN-2928 / YARN-5355	ATS v2	YARN	Vrushali / Varun	Joep (Twitter)	Merged in branch-2
2.	YARN-2877 / YARN-5220	Opportunistic Containers	YARN	Konstantinos / Arun	Roni (Microsoft)	Merged in branch-2
3.	YARN-5085	Container Update	YARN	Arun / Wangda	Roni / Sarvesh (Microsoft)	Merged in branch-2
4.	YARN-2915	Yarn Federation	YARN	Subru / Carlo	Sarvesh (Microsoft)	Merged in branch-2
5.	YARN-5139	Global Scheduling (Capacity Scheduler)	YARN	Wangda		Merged in branch-2
6.	YARN-3368	YARN Web UI v2	YARN	Sunil / Wangda	Joep (Twitter)	Merged in branch-2
7.	YARN-5734	API based (Capacity) Scheduler configuration	YARN	Jonathan / Xuan	Jonathan (LinkedIn)	Merged in branch-2
8.	YARN-4726	Allocation reuse for container upgrades	YARN	Arun / Jian	Sarvesh (Microsoft)	Merged in branch-2
9.	HDFS-10467	HDFS Router based federation	HDFS	Inigo / Chris	Inigo (Microsoft)	Merged in branch-2

(*) Production Deployment Sponsor: "We will favor inclusion of a feature in the 2.9.0 release if it is associated with an immediate production deployment requirement. Other cases: We would recommend moving it to the next major release."

Version 3.0

Feature freeze date	Sep 15, 2017
Code freeze date	
Planned release date	2017-11-01
Release Manager:	Andrew Wang
Tracking page	Hadoop 3.0.0 release
Branch	branch-3.0

Planned features:

	JIRA		Summary	Component	Feature Owner	Status
1.	HADOOP-11656		Classpath isolation	HADOOP		Merged
2.	HADOOP-13345		S3Guard	HADOOP		Merged
3.	HADOOP-9902		Shell script rewrite	HADOOP		Merged
4.	HADOOP-13578		Add Codec for ZStandard Compression	HADOOP		Merged
5.	HADOOP-10950,MAPREDUCE-5785		Reworked daemon and task heap management	HADOOP, MAPREDUCE		Merged
6.	MAPREDUCE-2841		MapReduce task-level native optimization	MAPREDUCE		Merged
7.	HADOOP-11804		Shaded client jars	HADOOP		Merged
8.	YARN-2915		Yarn Federation	YARN		Merged
9.	YARN-5520		Support for Opportunistic Containers and Distributed Scheduling.	YARN		Merged
10.	YARN-5355		TimelineService v2 alpha 2	YARN		Merged
12.	YARN-5734		API based scheduler configuration	YARN		Merged
12.	YARN-5079,YARN-4793,YARN-4757,YARN-6419		Yarn native services	YARN		PENDING
13.	HADOOP-12756		Support for Microsoft Azure Data Lake and Aliyun Object Storage System filesystem connectors	HADOOP		Merged

14.	HDFS-7285		Support for Erasure Codes in HDFS	HDFS		Merged
15.	HDFS-5570		Removal of hftp in favor of webhdfs	HDFS		Merged
16.	HDFS-6440		Support for more than two standby Namenodes	HDFS		Merged
17.	HDFS-1312		Intra-datanode balancer	HDFS		Merged
18.	HDFS-9427		Move default ports out of ephemeral range	HDFS		Merged
19.	HDFS-10467		HDFS Router based federation	HDFS	Inigo / Chris	Merged