Hortonworks Data Platform

HDP-2.2.4 Release Notes

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Hortonworks Data Platform: HDP-2.2.4 Release Notes

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The Hortonworks Data Platform, powered by Apache Hadoop, is a massively scalable and 100% open source platform for storing, processing and analyzing large volumes of data. It is designed to deal with data from many sources and formats in a very quick, easy and cost-effective manner. The Hortonworks Data Platform consists of the essential set of Apache Hadoop projects including MapReduce, Hadoop Distributed File System (HDFS), HCatalog, Pig, Hive, HBase, Zookeeper and Ambari. Hortonworks is the major contributor of code and patches to many of these projects. These projects have been integrated and tested as part of the Hortonworks Data Platform release process and installation and configuration tools have also been included.

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1. HDP 2.2.4 Release Notes

The official Apache versions of all HDP 2.2 components are unchanged from HDP 2.2.0.0. All HDP 2.2 components listed here are official Apache releases of the most recent stable versions available.

Hortonworks' philosophy is to provide patches only when absolutely necessary to assure the interoperability of the components. Unless you are explicitly directed by Hortonworks Support to take a patch update, each of the HDP 2.2 components needs to remain at the following package version levels to ensure a certified and supported copy of HDP 2.2.

- Apache Hadoop 2.6.0
- Apache Accumulo 1.6.1
- Apache DataFu 1.2.0
- Apache Falcon 0.6.0
- Apache Flume 1.52
- Apache HBase 0.98.4
- Apache Hive 0.14.0
- Hue 2.6.1
- Apache Kafka 0.8.1.1
- Apache Knox 0.5.0
- Apache Mahout 0.9.0
- Apache Oozie 4.1.0
- Apache Phoenix 4.2.0
- Apache Pig 0.14.0
- Apache Ranger 0.4.0
- Apache Slider 0.61.0
- Apache Spark 1.2.1
- Apache Sqoop 1.4.5
- Apache Storm 0.9.3
- Apache Tez 0.5.2
- Apache ZooKeeper 3.4.6

As of HDP 2.2, the following third-party tools are deprecated, and will be removed in a future release:

- Ganglia 3.5.0
- Nagios 3.5.0
- Ganglia Web 3.5.7

1.1. Unsupported Apache Features

The following features are shipped as part of HDP 2.2 HDFS, but are not supported:

- NameNode Federation (HDFS-1052)
- viewFS (HADOOP-7257)

The following Apache components are shipped as part of HDP 2.2 YARN, but are not supported:

- Fair Scheduler
- MapReduce Uber AM
- MapReduce Eclipse Plug-in

The following components are shipped as part of HDP 2.2 Spark, but not supported:

- Spark Standalone
- BlinkDB
- GraphX

The following component is shipped as part of HDP 2.2 Kafka, but not supported:

• Delete Topic

1.2. Behavioral Changes

In HDP 2.2.4, behavioral changes affect the following Hadoop components:

Oozie

Previous releases of the HDP Oozie client loaded the server-side configuration file, where JAVA_HOME is specific. The current version of the client does not load that server-side file. The workaround requires the following changes in its environmental setup:

- The Oozie system environment requires JDK 1.6 or greater
- The machine where the users will run the Oozie command line requires \$JAVA_HOME to be set to version 1.6 or greater.

1.3. Tech Previews in This Release

All HDP 2.2 components listed here are official Apache releases of the most recent stable versions available. Hortonworks' philosophy is to provide patches only when absolutely

necessary to assure the interoperability of the components. Unless you are explicitly directed by Hortonworks Support to take a patch update, each of the HDP 2.2 components needs to remain at the following package version levels to ensure a certified and supported copy of HDP 2.2.

- HDFS Encryption
- Falcon Graph View of Dependencies
- Phoenix support for local secondary indexes
- YARN support for Docker

1.4. Apache Patch Information

This section describes Apache JIRAs that were addressed in HDP 2.2.4.

1.4.1. Accumulo 1.6.1

HDP 2.2.4 provides Accumulo 1.6.1 and the following Apache patches:

- ACCUMULO-3312 Fix incorrect path generation during clone table.
- ACCUMULO-3600 Fix deleterows to properly compute file counts.

1.4.2. Falcon 0.6.0

HDP 2.2.4 provides Apache Falcon 0.6.0 and the following additional Apache patches:

- FALCON-1005: In ProcessInstanceSuspendTest clean test dir after each method execution
- FALCON-1007: Improve test output and variable names.
- FALCON-1072: Dumping of Oozie info should use os specific newline

1.4.3. Hadoop Common/HDFS 2.6.0

HDP 2.2.4 provides Apache Hadoop Core 2.6.0 and the following additional Apache patches:

- HDFS-3107. Introduce truncate.
- HDFS-7009. Active NN and standby NN have different live nodes.
- HDFS-7056. Snapshot support for truncate.
- HDFS-7058. Tests for truncate CLI
- HDFS-7263. Snapshot read can reveal future bytes for appended files.
- HDFS-7425. NameNode block deletion logging uses incorrect appender.
- HDFS-7443. Datanode upgrade to BLOCKID_BASED_LAYOUT fails if duplicate block files are present in the same volume

- HDFS-7470. SecondaryNameNode need twice memory when calling reloadFromImageFile.
- HDFS-7489. Incorrect locking in FsVolumeList#checkDirs can hang datanodes.
- HDFS-7503. Namenode restart after large deletions can cause slow processReport
- HDFS-7606. Fix potential NPE in INodeFile.getBlocks().
- HDFS-7634. Disallow truncation of Lazy persist files.
- HDFS-7638. Small fix and few refinements for FSN#truncate.
- HDFS-7643. Test case to ensure lazy persist files cannot be truncated.
- HDFS-7655. Expose truncate API for Web HDFS.
- HDFS-7659. Truncate should check negative value of the new length
- HDFS-7676. Fix TestFileTruncate to avoid bug of HDFS-7611.
- HDFS-7677. DistributedFileSystem#truncate should resolve symlinks.
- HDFS-7707. Edit log corruption due to delayed block removal again.
- HDFS-7714. Simultaneous restart of HA NameNodes and DataNode can cause DataNode to register successfully with only one NameNode.
- HDFS-7733. NFS: readdir/readdirplus return null directory attribute on failure.
- HDFS-7738. Revise the exception message for recover lease; add more truncate tests such
 as truncate with HA setup, negative tests, truncate with other operations and multiple
 truncates.
- HDFS-7760. Document truncate for WebHDFS.
- HDFS-7831. Fix the starting index and end condition of the loop in FileDiffList.findEarlierSnapshotBlocks().
- HDFS-7843. A truncated file is corrupted after rollback from a rolling upgrade.
- HDFS-7885. Datanode should not trust the generation stamp provided by client.
- HADOOP-926. Do not fail job history iteration when encounting missing directories.
- HADOOP-941: Addendum patch.
- HADOOP-11321. copyToLocal cannot save a file to an SMB share unless the user has Full Control permissions.
- HADOOP-11368. Fix SSLFactory truststore reloader thread leak in KMSClientProvider.
- HADOOP-11381. Fix findbugs warnings in hadoop-distcp, hadoop-aws, hadoop-azure, and hadoop-openstack

- HADOOP-11381. Revert. (Fix findbugs warnings in hadoop-distcp, hadoop-aws, hadoop-azure, and hadoop-openstack.)
- HADOOP-11412. POMs mention "The Apache Software License" rather than "Apache License".
- HADOOP-11412. Revert. (POMs mention "The Apache Software License" rather than "Apache License"
- HADOOP-11490. Expose truncate API via FileSystem and shell command.
- HADOOP-11509. change parsing sequence in GenericOptionsParser to parse -D parameters before -files.
- HADOOP-11510. Expose truncate API via FileContext.
- HADOOP-11523. StorageException complaining " no lease ID" when updating FolderLastModifiedTime in WASB.
- HADOOP-11579. Documentation for truncate.
- HADOOP-11595. Add default implementation for AbstractFileSystem#truncate.
- MAPREDUCE-6230. Fixed RMContainerAllocator to update the new AMRMToken service name properly.
- YARN-570. Time strings are formated in different timezone.
- YARN-2246. Made the proxy tracking URL always be http(s)://proxy addr:port/proxy/
 <appld> to avoid duplicate sections.
- YARN-2571. RM to support YARN registry
- YARN-2683. registry config options: document and move to core-default
- YARN-2837. Support TimeLine server to recover delegation token when restarting.
- YARN-2917. Fixed potential deadlock when system.exit is called in AsyncDispatcher
- YARN-2964. RM prematurely cancels tokens for jobs that submit jobs (oozie).
- YARN-3103. AMRMClientImpl does not update AMRM token properly.
- YARN-3207. Secondary filter matches entites which do not have the key being filtered for.
- YARN-3227. Timeline renew delegation token fails when RM user's TGT is expired.
- YARN-3239. WebAppProxy does not support a final tracking url which has query fragments and params.
- YARN-3251. Fixed a deadlock in CapacityScheduler when computing absoluteMaxAvailableCapacity in LeafQueue.
- YARN-3269. Yarn.nodemanager.remote-app-log-dir could not be configured to fully qualified path.

1.4.4. HBase 0.98.4

HDP 2.2.4 provides HBase 0.98.4 and the following additional Apache patches:

- HBASE-212. Addendum. Fixes a unit test
- HBASE-10499 In write-heavy scenario one of the regions does not get flushed causing RegionTooBusyException
- HBASE-11569 Addendum for not skipping replayed edits for primary region replica
- HBASE-12238 A few exceptions on startup PARTIAL BACKPORT
- HBASE-12533 staging directories are not deleted after secure bulk load
- HBASE-12575 Sanity check table coprocessor classes are loadable
- HBASE-12536 Reduce the effective scope of GLOBAL CREATE and ADMIN permission
- HBASE-12562 Handling memory pressure for secondary region replicas ADDENDUM for fixing findbug reported issues
- HBASE-12791 HBase does not attempt to clean up an aborted split when the regionserver shutting down
- HBASE-12714 RegionReplicaReplicationEndpoint should not set the RPC Codec
- HBASE-12958 SSH doing hbase:meta get but hbase:meta not assigned
- HBASE-13120 Allow disabling hadoop classpath and native library lookup

1.4.5. Hive 0.14.0

HDP 2.2.4 provides Hive 0.14.0 and the following additional Apache patches:

- HIVE-480: HDFSCleanup thread holds reference to FileSystem
- HIVE-6468: HiveServer2 (tcp mode, with SASL layer) OOMs when getting a non-thrift message
- HIVE-6679: HiveServer2 should support TCP Keepalive & Server Socket Timeout on blocking calls
- HIVE-7175: Provide password file option to beeline
- HIVE-7270: Serde info is not shown in show create table statement, but shows in the desc table
- HIVE-8295: Add batch retrieve partition objects for metastore direct sql
- HIVE-8485: SUMMARY-Hive metastore NPE with Oracle DB when there is empty value for string for tblproperties/serdeproperties/etc, table not usable after creation
- HIVE-8762: HiveMetaStore.BooleanPointer should be replaced with an AtomicBoolean

- HIVE-8791: Hive permission inheritance throws exception S3
- HIVE-8850: SUMMARY-[ObjectStore:: rollbackTransaction() needs to be looked into further
- HIVE-8881: Receiving json "could not find job" error when web client tries to fetch all jobs from WebHCat but HDFS does not have the data.
- HIVE-8888: Hive on Tez query output duplicate rows when there is explode in subqueries for joins
- HIVE-8891: SUMMARY-[Another possible cause to NucleusObjectNotFoundException from drops/rollback
- HIVE-8893: Implement whitelist for builtin UDFs to avoid untrused code execution in multiuser mode
- HIVE-8966: Delta files created by hive hcatalog streaming cannot be compacted
- HIVE-9025: join38.q (without map join) produces incorrect result when testing with multiple reducers
- HIVE-9038: Join tests fail on Tez
- HIVE-9055: Tez: union all followed by group by followed by another union all gives error
- HIVE-9106: improve the performance of null scan optimizer when several table scans share a physical path
- HIVE-9112 : Query may generate different results depending on the number of reducers
- HIVE-9141: HiveOnTez: mix of union all, distinct, group by generates error
- HIVE-9155: HIVE_LOCKS uses int instead of bigint hive-txn-schema-0.14.0.mssgl.sgl
- HIVE-9205: Change default Tez install directory to use /tmp instead of /user and create the directory if it does not exist
- HIVE-9234: HiveServer2 leaks FileSystem objects in FileSystem.CACHE
- HIVE-9235: Turn off Parquet Vectorization until all data types work: DECIMAL, DATE, TIMESTAMP, CHAR, and VARCHAR
- HIVE-9249: java.lang.ClassCastException: org.apache.hadoop.hive.serde2.io.HiveVarcharWritable cannot be cast to org.apache.hadoop.hive.common.type.HiveVarchar when joining tables
- HIVE-9278: Cached expression feature broken in one case
- HIVE-9316: TestSqoop tests in WebHCat testsuite hardcode libdir path to hdfs
- HIVE-9351: Running Hive Jobs with Tez cause templeton to never report percent complete
- HIVE-9359: SUMMARY-[Hive export OOM error when table is huge. (32TB data, 4800+ partitions)]

- HIVE-9382: Query got rerun with Global Limit optimization on and Fetch optimization off
- HIVE-9390: Enhance retry logic wrt DB access in TxnHandler
- HIVE-9401: SimpleFetchOptimizer for limited fetches without filters
- HIVE-9404 NPE in org.apache.hadoop.hive.metastore.txn.TxnHandler.determineDatabaseProduct()
- HIVE-9436: SUMMARY-[RetryingMetaStoreClient does not retry JDOExceptions]
- HIVE-9446: JDBC DatabaseMetadata.getColumns() does not work for temporary tables
- HIVE-9473: sql std auth should disallow built-in udfs that allow any java methods to be called
- HIVE-9593. ORC reader should ignore new/unknown metadata streams.
- HIVE-9652: STDERR redirection should not use in place updates TEZ UI
- HIVE-9665: Parallel move task optimization causes race condition
- HIVE-9673 : Set operationhandle in ATS entities for lookups
- HIVE-9683: Client TCP keep-alive for Thrift as a workaround for THRIFT-2788
- HIVE-9684: Incorrect disk range computation in ORC because of optional stream kind
- HIVE-9743 Incorrect result set for vectorized left outer join
- HIVE-9779: ATSHook does not log the end user if doAs=false (it logs the hs2 server user)
- HIVE-9836: Hive on Tez: fails when virtual columns are present in the join conditions (for e.g. partition columns)
- HIVE-9841: IOException thrown by ORC should include the path of processing file
- HIVE-9886: Tez NPE error when initialize reducer from 2 row_number function on each join side
- HIVE-9892: HIVE schema failed to upgrade from HDP 2.0/2.1 to HDP 2.2 with schematool
- HIVE-9832: Merge join followed by union and a map join in hive on tez fails.

1.4.6. Knox 0.5.0

HDP 2.2.4 provides Knox 0.5.0 and the following additional Apache patches:

KNOX-492: Support service level replayBufferLimit for Ozzie, Hive and HBase.

1.4.7. Oozie 4.1.0

HDP 2.2.4 provides Apache Oozie 4.1.0 and the following additional Apache patch:

 OOZIE-208. Adding missing oozie property oozie.service.HadoopAccessorService.hadoop.configurations to oozie install script.

1.4.8. Phoenix 4.2.0

HDP 2.2.4 includes Apache Phoenix 4.2.0 and the following additional Apache patches:

- PHOENIX-18 Several tests are failing with SequenceNotFoundException error
- PHOENIX-32 Some phoenix tests are failing with different assertion errors
- PHOENIX-1248 CsvBulkLoadTool is failing with IAE when local index specified for –indextable parameter
- PHOENIX-1336 Exception when select from local index:Cache of region boundaries are out of date
- PHOENIX-1346 the choice of index by phoneix is not correct where do querying
- PHOENIX-1362 Min/max aggregate query on CHAR and BINARY types always return null
- PHOENIX-1427 Reduce work in StatsCollector
- PHOENIX-1428 Queries with limit against tenant views is broken
- PHOENIX-1429 Cancel queued threads when limit reached
- PHOENIX-1431 DELETE using Subqueries
- PHOENIX-1436 the choice of index by phoneix is not correct where do querying
- PHOENIX-1446 Add/fix logging for LIMIT optimization
- PHOENIX-1447 Increase guidepost width default to take into account FAST_DIFF compression
- PHOENIX-1448 Fix resource leak when work rejected by thread executor
- PHOENIX-1449 Fix PropertiesUtil.deepCopy()
- PHOENIX-1455 Replace org.xerial.snappy with org.iq80.snappy pure Java snappy implementation
- PHOENIX-1456 Incorrect query results caused by reusing buffers in SpoolingResultIterator
- PHOENIX-1462 Create unit test for COUNT DISTINCT using compression (Ram)
- PHOENIX-1463 phoenix.query.timeoutMs doesn't work as expected
- PHOENIX-1466 Prevent multiple scans when query run serially
- PHOENIX-1467 Upgrade to 4.12 Junit and update tests by removing @Category annotation
- PHOENIX-1468 Add org.iq80.snappy to client and server assemblies

- PHOENIX-1469 Binary columns do not work correctly for indexing
- PHOENIX-1472 Fix salt bucket for Integer.MIN_VALUE
- PHOENIX-1473 Connecting with Phoenix client when Phoenix is not deployed on region server(s) takes down region server(s)
- PHOENIX-1474 NPE when RVC between combined with key part comparison
- PHOENIX-1476 Immediately open scanner for parallel queries
- PHOENIX-1477: Phoenix 4.0 -> 4.2 upgrade doesn't work
- PHOENIX-1480 Incorrect query results may occur when VIEW uses indexes from physical table
- PHOENIX-1484 Index creation failed due to specifying DEFAULT_COLUMN_FAMILY option
- PHOENIX-1485 Correct arg count in FunctionParseNode
- PHOENIX-1485 Add timezone awareness
- PHOENIX-1486 Fix SpooledTmpFileDeletelT by having it use a different directory for spooling files
- PHOENIX-1498 Turn KEEP_DELETED_CELLS off by default
- PHOENIX-1500 Disallow mutations and queries using using PhoenixPreparedStatement.executeQuery() and executeUpdate() respectively
- PHOENIX-1503 Compilation on Mac OS fails on maven-assembly-plugin
- PHOENIX-1532 Phoenix tarball assembly does not include server jar
- PHOENIX-1533 Last key part not taken into child/parent optimization
- PHOENIX-1537 Set reuseForks to false for integration tests
- PHOENIX-1551 Upgrading from Phoenix 4.0.x to 4.2.2 and throw can't find SYSTEM.STATS
- PHOENIX-1571 Replace hard-coded date
- PHOENIX-1575 Identical sql type values for UNSIGNED_TIMESTAMP and UNSIGNED_DATE
- PHOENIX-1592 ORDER BY not closing ResultIterator properly
- PHOENIX-1596 Turning tracing on causes region servers to crash
- PHOENIX-1601 Performance.py script not working in binary distribution

1.4.9. Pig 0.14.0

HDP 2.2.4 provides Apache Pig 0.14.0 and the following additional Apache patches:

- PIG-156: Pig command fails because the input line is too long
- PIG-4334: PigProcessor does not set pig.datetime.default.tz
- PIG-4342: Pig 0.14 cannot identify the uppercase of DECLARE and DEFAULT
- PIG-4377: Skewed outer join produce wrong result in some cases (PIG-4377-2.patch)
- PIG-4377: Skewed outer join produce wrong result in some cases

1.4.10. Ranger 0.4.0

HDP 2.2.4 provides Ranger 0.4.0 and the following additional Apache patch:

• RANGER-188: Added LSB headers to Ranger Admin/Usersync init.d scripts

1.4.11. Slider 0.61.0

HDP 2.2.4 provides Slider 0.61.0 and the following additional Apache patches:

 SLIDER-769: Modify Slider app packages for seamless integration with AMS provider (Ambari Metrics Service)

1.4.12. Storm 0.9.3

HDP 2.2.4 provides Apache Storm 0.9.3 and the following additional patches:

- STORM-586: TridentKafkaEmitter should catch updateOffsetException.
- STORM-682: supervisor should handle worker state corruption gracefully.

1.4.13. Tez 0.5.2

HDP 2.2.4 provides Apache Tez 0.5.2 and the following Apache patches:

- TEZ-1642. TestAMRecovery sometimes fails.
- TEZ-1775. Allow setting log level per logger.
- TEZ-1800. Integer overflow in ExternalSorter.getInitialMemoryRequirement()
- TEZ-1836. Provide better error messages when tez.runtime.io.sort.mb, spill percentage is incorrectly configured.
- TEZ-1851. FileSystem counters do not differentiate between different FileSystems
- TEZ-1852. Get examples to work in Local Mode.
- TEZ-1861. Fix failing test: TestOnFileSortedOutput.
- TEZ-1878. Task-specific log level override not working in certain conditions
- TEZ-1924. Tez AM does not register with AM with full FQDN causing jobs to fail in some environments.

- TEZ-1931. Publish tez version info to Timeline.
- TEZ-1934. TestAMRecovery may fail due to the execution order is not determined.
- TEZ-1942. Number of tasks show in Tez UI with auto-reduce parallelism is misleading.
- TEZ-1949: Whitelist TEZ_RUNTIME_OPTIMIZE_SHARED_FETCH for broadcast edges
- TEZ-1962. Fix a thread leak in LocalMode.
- TEZ-2024. Compiliation error due to conflict.
- TEZ-2024. TaskFinishedEvent may not be logged in recovery.
- TEZ-2037. Should log TaskAttemptFinishedEvent if taskattempt is recovered to KILLED
- TEZ-2135. ACL checks handled incorrectly in AMWebController.

As part of HPD 2.2.4 Hortonworks is probiving a Tez Debugging User Interface. This interface does not impact the behavior or function of jobs that leverage Tez, and its use is optional. Patches added to facilitate the Tez Debugging User Interface include:

- TEZ-1990. Tez UI: DAG details page shows Nan for end time when a DAG is running.
- TEZ-2031. Tez UI: horizontal scrollbars do not appear in tables, causing them to look truncated.
- TEZ-2038. TEZ-UI DAG is always running in tez-ui when the app is failed but no DAGFinishedEvent is logged.
- TEZ-2043. Tez UI: add progress info from am webservice to dag and vertex views.
- TEZ-2052. Tez UI: log view fixes, show version from build, better handling of ats url config.
- TEZ-2056. Tez UI: fix VertexID filter, show only tez configs by default, fix appattemptid.
- TEZ-2063. Tez UI: Flaky log url in tasks table.
- TEZ-2065. Setting up tez.tez-ui.history-url.base with a trailing slash can result in failures to redirect correctly.
- TEZ-2068. Tez UI: Dag view should use full window height, disable webuiservice in localmode.
- TEZ-2069. Tez UI: appld should link to application in dag details view.
- TEZ-2077. Tez UI: No diagnostics on Task Attempt Details page if task attempt failed
- TEZ-2078. Tez UI: Task logs url use in-progress url causing various errors.
- TEZ-2079. Tez UI: trailing slash in timelineBaseUrl in ui should be handled.
- TEZ-2092. Tez UI history url handler injects spurious trailing slash.
- TEZ-2098. Tez UI: Dag details should be the default page for dag, fix invalid time entries for failed Vertices.

- TEZ-2101. Tez UI: Issues on displaying a table.
- TEZ-2102. Tez UI: DAG view has hidden edges, dragging DAG by holding vertex causes unintended click.
- TEZ-2106. TEZ UI: Display data load time, and add a refresh button for items that can be refreshed.
- TEZ-2112. Tez UI: fix offset calculation, add home button to breadcrumbs.
- TEZ-2114. Tez UI: task/task attempt status is not available when its running.
- TEZ-2116. Tez UI: dags page filter does not work if more than one filter is specified.
- TEZ-2134. TEZ UI: On request failure, display request URL and server name in error bar.
- TEZ-2136. Some enhancements to the new Tez UI.
- TEZ-2142. TEZ UI: Breadcrumb border color looks out of place in wrapped mode.
- TEZ-2158. TEZ UI: Display dag/vertex names, and task/attempt index in breadcrumb
- TEZ-2160. Tez UI: App tracking URL should support navigation back.
- TEZ-2165. Tez UI: DAG shows running status if killed by RM in some cases.

1.4.14. ZooKeeper 3.4.6

HDP 2.2.4 provides ZooKeeper 3.4.6 and the following additional Apache patches:

• ZOOKEEPER-1506: Re-try DNS hostname -> IP resolution if node connection fails

1.5. Upgrading from HDP 2.2.x to HDP 2.2.4

HDP 2.2.4 is a maintenance release of HDP 2.2.x. If you already have HDP 2.2.x installed, upgrading your cluster to HDP 2.2.4 means:

- Keeping the same configuration files you used for HDP 2.2.x
- Keeping the same data and metadata in the same location you used for HDP 2.2.x
- Installing any new components (added for the first time in HDP 2.2.4) side-by-side with existing components

The following table summarizes HDP 2.2.x-to-2.2.4 upgrade options:

Cluster Management	Supporting Doc	Notes
Cluster managed manually	these Release Notes	If you have an earlier version of HDP (such as HDP 2.0 or HDP 2.1) see the HDP v. 2.2.4 Manual Upgrade Guide
Cluster managed via Ambari 1.7.0	these Release Notes	
Cluster managed via Ambari 2.0	Upgrading Ambari	Ambari 2.0 supports rolling upgrade between HDP 2.2.x and HDP 2.2.4

1.6. Before You Begin

- Make sure you know what HDP components need to be upgraded at your installation
- Think about whether you are going to upgrade using a local repository or a remote repository.

1.7. Upgrade Procedure

To upgrade your cluster from HDP 2.2.x to HDP 2.2.4:

1. Download the appropriate HDP 2.2.4 hdp.repo file for your OS:

Operating System	Repository Location
RHEL/CentOS/Oracle LINUX 5	http://public-repo-1.hortonworks.com/HDP/centos5/2.x/updates/2.2.4.2/hdp.repo
RHEL/CentOS/Oracle LINUX 6	http://public-repo-1.hortonworks.com/HDP/centos6/2.x/updates/2.2.4.2/hdp.repo
SLES 11 SP1	http://public-repo-1.hortonworks.com/HDP/sles11sp1/2.x/updates/2.2.4.2/hdp.repo
SLES 11 SP3/SP4	http://public-repo-1.hortonworks.com/HDP/suse11sp3/2.x/updates/2.2.4.2/hdp.repo
Ubuntu 12	http://public-repo-1.hortonworks.com/HDP/ubuntu12/2.x/updates/2.2.4.2/hdp.list
Debian 6	http://public-repo-1.hortonworks.com/HDP/debian6/2.x/updates/2.2.4.2/hdp.list

or

Download the HDP RMs single repository tarball. (For information on how to install the repositories, see the local repository instructions.)

Operating System	Tarball Location
RHEL/CentOS/Oracle LINUX 5	http://public-repo-1.hortonworks.com/HDP/centos5/HDP-2.2.4.2-centos5-rpm.tar.gz
RHEL/CentOS/Oracle LINUX 6	http://public-repo-1.hortonworks.com/HDP/centos6/HDP-2.2.4.2-centos6-rpm.tar.gz
SLES 11 SP1	http://public-repo-1.hortonworks.com/HDP/sles11sp1/HDP-2.2.4.2-sles11sp1-rpm.tar.gz
SLES 11 SP3/SP4	http://public-repo-1.hortonworks.com/HDP/suse11sp3/HDP-2.2.4.2-suse11sp3-rpm.tar.gz
Ubuntu 12	http://public-repo-1.hortonworks.com/HDP/ubuntu12/HDP-2.2.4.0-ubuntu12-deb.tar.gz
Debian 6	http://public-repo-1.hortonworks.com/HDP/debian6/HDP-2.2.4.0-debian6-deb.tar.gz

2. Install the HDP 2.2.4 bits:

Operating System	Commands	
RHEL/CentOS/Oracle LINUX	Install HDP 2.2.4 components on relevant nodes, according to the services that run on those hosts:	
	yum install "hadoop_2_2_4_22_2_0_*""oozie_2_2_4_22_2_0_*""pig_2	

Operating System	Commands	
SLES	Install HDP 2.2.4 components on relevant nodes, according to the services that run on those hosts:	-
	zypper install "hadoop_2_2_4_22_2_0_*""oozie_2_2_4_22_2_0_*""pig_2	_2_4_22_2_2_0_*'
Ubuntu/Debian	Install HDP 2.2.4 components on relevant nodes, according to the services that run on those hosts:	
	apt-get install "hadoop_2_2_4_22_2_0_*""oozie_2_2_4_22_2_0_*""pig_2	_2_4_22_2_2_0_*'

3. Stop all HDP 2.2.x Services.

If you are managing your cluster manually, stop all HDP 2.2.x Services. See "Controlling HDP Services Manually" in the *HDP Reference Guide*.

If you are managing your cluster with Ambari 1.7.0, do the following:

- a. Open Ambari Web
- b. Browse to Services
- c. Use Service Actions to stop each service

For all services, switch the active version to HDP 2.2.4.

On each host in the cluster, use hdp-select to switch all services to the HDP 2.2.4 version:

hdp-select set all <hdp2.2.4 version>
 Stop all HDP 2.2.x Ser

4. (Ambari 1.7.0-managed clusters only) Complete the Stack Upgrade.

If you are managing your cluster with Ambari 1.7.0, update the repository Base URLs to use the HDP 2.2.4 repositories for HDP and HDP-UTILS:

- a. Open Ambari Web
- b. Browse to Admin > Repositories
- c. Edit the Base URLs

5. Start all HDP 2.2.4 services, in the following order:

a. ZooKeeper

su - zookeeper export ZOOCFGDIR=/usr/hdp/current/zookeeperserver/conf; export ZOOCFG=zoo.cfg; source /usr/hdp/current/ zookeeper-server/conf/zookeeper-env.sh; /usr/hdp/current/ zookeeper-server/bin/zkServer.sh start

b. (HA NameNode upgrade only) ZooKeeper Failover Controller Daemons

/usr/hdp/current/hadoop-hdfs-namenode/../hadoop/sbin/hadoop-daemon.sh start zkfc

c. (HA NameNode upgrade only) JournalNodes

su - hdfs /usr/hdp/current/hadoop-hdfs-journalnode/../hadoop/ sbin/hadoop-daemon.sh start journalnode

d. HDFS NameNode(s)

Start the HDFS NameNode(s). Because there is no metadata schema update for this upgrade, start the NameNode(s) in normal mode:

su - hdfs /usr/hdp/current/hadoop-hdfs-namenode/../hadoop/ sbin/hadoop-daemon.sh start namenode

e. Remaining Services

Start the rest of the HDP services. On each host in the cluster, start the services that are relevant to that cluster. To identify the start commands for all services, see "Controlling HDP Services Manually" in the *HDP Reference Guide*.

You now have an upgraded cluster. Ensure that your workloads run correctly on this upgraded cluster.

1.8. Fixed Issues

Fixed issues represents selected issues that were previously logged via Hortonworks Support, but are now addressed in the current release. These issues may have been reported in previous versions within the Known Issues section; meaning they were reported by customers or identified by Hortonworks Quality Engineering team.

Hortonworks Bug No.	Apache JIRA	Component	Description
BUG-31499	FALCON-915	Falcon	Falcon UI user.name param cannot be empty
BUG-28115	HADOOP-11321	Hadoop Common	CopyToLocal cannot save a file to an SMB share unless the user has full Control permissions
BUG-32505	HADOOP-11368	HDFS	Fix SSLFactory truststore reloader thread leak in KMSClientProvider
BUG-28620	HADOOP-9629	Hadoop Common	Synchronize WASB code from upstream Apache
BUG-33034	HBASE-12238	HBase	Exceptions on startup
BUG-26389	HBASE-12575	HBase	Botched alter table involving coprocessor crashes RS
BUG-29996	HBASE-12791	HBase	HBase does not attempt to clean up an aborted SPLIT when the Regions Server is shutting down
BUG-31373	HBASE-12958	HBase	SSH doing hbase:meta displays "hbase:meta not assigned" message
BUG-32330	HBASE-13120	HBase	Allow native library path to be overriden
BUG-32106	HDFS-7009	HDFS	Active NN and standby NN have different live nodes

Hortonworks Bug No.	Apache JIRA	Component	Description	
BUG-28206	HDFS-7425	HDFS	NameNode block deletion logging uses incorrect appender.	
BUG-29862	HDFS-7489	HDFS	Incorrect locking in FsVolumeList#checkDirs can hang datanodes.	
BUG-29478	HDFS-7560	HDFS	ACLs removed by removeDefaultAcl() will be back after NameNode restart/failover	
BUG-31221	HDFS-7707	HDFS	Edit log corruption due to delayed block removal again	
BUG-31411	HDFS-7714	HDFS	Simultaneous restart of HA NameNodes and DataNode can causes DataNode to register successfully with only one NameNode.	
BUG-31164	HDFS-7733	HDFS	NFS: readdir/readdirplus returns null directory attribute on failure	
BUG-32197	HDFS-7843	HDFS	Truncate test failed during rollback	
BUG-33108	HDFS-7925	HDFS	HDFS truncate command fails	
BUG-30864	HIVE-5700, HIVE-9445	Hive	Revert HIVE-5700 - enforce single date format for partition column storage	
BUG-29572	HIVE-7270	Hive	Serde info is not shown in SHOW CREATE TABLE statement, but shows in the desc table	
BUG-27598	HIVE-8295	Hive	DirectSQL with Oracle metastore fails with error ORA-01795, Maximum number of expression can not be more than 1000	
BUG-29164	HIVE-8870	Hive	Errors when selecting a struct field within an array from ORC based tables	
BUG-27856	HIVE-8881	WebHCat	Receiving json error when web client tries to fetch all jobs from webhcat where HDFS does not have the data.	
BUG-28232	HIVE-8888	Hive	Hive on Tez query output duplicate rows when JOIN subqueries are expanded	
BUG-30663	HIVE-8893, HIVE-9473	Hive	UDF that allows untrusted code execution should be disabled	
BUG-26804	HIVE-8948	Hive	Fix or disable flaky test testTransactionBatchEmptyCom	
BUG-29631	HIVE-8966	Hive	Delta files created by hive hcatalog streaming cannot be compacted	

Hortonworks Bug No.	Apache JIRA	Component	Description	
BUG-30288	HIVE-9025, HIVE-9112	Hive	Incorrect result due to bug in constant propagation optimizer	
BUG-29161	HIVE-9051	Hive	TezJobMonitor in-place updates logs too often to logfile	
BUG-29158	HIVE-9067	Hive	OrcFileMergeOperator may create merge file that does not match properties of input files	
BUG-29162	HIVE-9090	Hive	Rename "Tez File Merge Work" to smaller name	
BUG-29159	HIVE-9111	Hive	Potential NPE in OrcStruct for list and map types	
BUG-29840	HIVE-9249	Hive	java.lang.ClassCastException: org.apache.hadoop.hive.serd cannot be cast to org.apache.hadoop.hive.com when joining tables	
BUG-30063	HIVE-9278	Hive	Cached expression feature broken in one case	
BUG-30305	HIVE-9359	Hive	Hive export OOM error when table is huge. (32TB data, 4800+ partitions)	
BUG-31213	HIVE-9593	Hive	ORC reader should ignore new/unknown metadata streams	
BUG-32081	HIVE-9652	Hive	STDERR redirection should not use in-place updates TEZ UI	
BUG-31288	HIVE-9665	Hive	ParallelMoveTask test failed on Ambari-deployed cluster due to OOM error	
BUG-32089	HIVE-9743	Hive	Incorrect result set for left outer join when executed with tez versus mapreduce	
BUG-32751	HIVE-9841	Hive	IOException thrown by ORC should include the path of processing file	
BUG-28764	ACCUMULO-3312	Accumulo	Cloning tables is broken in Accumulo 1.6.1	
BUG-30409	FALCON-482	Falcon	Concurrently update/delete a process fails in Falcon	
BUG-21316	FALCON-708	Falcon	Falcon-generated files should be owned by the user, not Falcon	
BUG-29423	HADOOP-799	MapReduce	NullPointerException in FSDataset	
BUG-28571	HBASE-12533	HBase	Staging directories are not deleted after secure bulk load	
BUG-29367	HDFS-7443	HDFS	Datanode upgrade to BLOCKID_BASED_LAYOUT fails if duplicate block files are present in the same volume	

Hortonworks Bug No.	Apache JIRA	Component	Description
BUG-30397	HDFS-7470	HDFS	SecondaryNameNode need twice memory when calling reloadFromImageFile
BUG-27347	HDFS-7503	HDFS	Namenode restart after a large deletion could cause slow processReport.
BUG-28815	HIVE-6679	Hive	HiveServer2 should support TCP Keepalive & Server Socket Timeout on blocking calls
BUG-32184	HIVE-9779	Hive	ATSHook does not log the end user if doAs=false (it logs the hs2 server user)
BUG-32273	n/a	Hue	Unable to change Hue users' passwords via the Hue UI
BUG-32998	n/a	Hue	Fix error on deleting users when upgrading Hue
BUG-32389	n/a	Hue	Users cannot use the Job Browser to investigate failed jobs
BUG-31139	n/a	Hue	Fix django- db.utils.DatabaseError: current transaction is aborted when setting up Hue on PostgreSQL
BUG-28353	KNOX-464	Knox	Knox not returning proper redirection url when executing file creation/ upload operation via load balancer
BUG-31968	OOZIE-2119	Oozie	Oozie Distcp action fails with error: Returned value from distcp is non-zero (-1)
BUG-31764	PHOENIX-1248	Phoenix	CsvBulkLoadTool fails with IAE when local index is specified for –index-table parameter
BUG-30095	RANGER-192	Ranger	User Detail Page hangs if user has many groups
BUG-31256	SLIDER-785	Slider	testAgentClusterLifecycle fails due to timeout on Windows
BUG-15960	STORM-130	Storm	Worker node gets 'FileNotFoundException: stormconf.ser'
BUG-30568	STORM-635	Storm	Storm logviewer doesn't work in Ambari
BUG-32094	TEZ-2135	Tez	ACL checks working incorrectly in AMWebController
BUG-29254	YARN-2964	YARN	RM prematurely cancels tokens for jobs that submit jobs (oozie)
BUG-31944	YARN-3239	YARN	WebAppProxy in YARN broken for redirecting to the Tez View in Ambari

Hortonworks Bug No.	Apache JIRA	Component	Description	
BUG-29055	YARN-570	YARN	Time strings are formated in different timezone	
BUG-20353	YARN-570	YARN	Resource Manager Timezone only appears in GMT, should appear in Local Time to Browser	
BUG-31195	KNOX-473	Knox	Knox fails to rewrite Load balancer URI when doing out request	
BUG-30967	KNOX-491	Knox	Increase default replay buffer size to 8K	
BUG-30968	KNOX-492	Knox	Support service level replayBufferLimit for Oozie, Hive and HBase	
BUG-31670	PHOENIX-1336	Phoenix	Exception when select from local index:Cache of region boundaries are out of date	
BUG-28233	PHOENIX-1477	Phoenix	Post-upgrade: Phoenix throws org.apache.phoenix.schema.0 ERROR 504 (42703): Undefined column. columnName=INDEX_TYPE	ColumnNotFoundExc
BUG-30294	PHOENIX-1551	Phoenix	Upgrading from Phoenix 4.0.x to 4.2.2 causes a "can't find SYSTEM.STATS" error	
BUG-30293	PHOENIX-1592	Phoenix	HBase Regionserver creating *.tmp files under /tmp causing too many files open exception	
BUG-31688	PHOENIX-1634	Phoenix	LocalIndexSplitter prevents region from auto split	
BUG-28921	PHOENIX-914	Phoenix	Performance degradation due to full table scan as size of data grows.	
BUG-28636	PIG-4334	Pig	PigProcessor does not set pig.datetime.default.tz	
BUG-33825	n/a		Non-Admin users are able to view Audit Log report by changing URL	
BUG-33822	n/a	Ranger	Do not display the Tomcat SessionID as part of the Audio report	
BUG-33821	n/a	Ranger	Ranger Admin audit log should not be sending digested value displayed on screen	
BUG-31704	RANGER-242	Ranger	Ranger on Ambari: Ranger config migration script fails to migrate ranger-admin/install.properties configs to Ranger config properties under Ambari.	
BUG-32653	STORM-59	Storm	Storm-hive topology fail with "No FileSystem for scheme: wasb" error	

Hortonworks Bug No.	Apache JIRA	Component	Description
BUG-29175	TEZ-1775	Tez	Allow setting log level per logger (See also TEZ-1878)
BUG-29373	TEZ-1851	Tez	FileSystem counters do not differentiate between different FileSystems
BUG-31540	TEZ-2024, TEZ-2037, TEZ-2087	Tez	Recovered Task/ TaskAttempt status is not available on tez-ui
BUG-31640	TEZ-2029	Tez	Issues on DAG's view
BUG-31481	TEZ-2038	Tez	DAG is always in running status in tez-ui when the app is failed before DAG is completed
BUG-31626	TEZ-2050, TEZ-2114	Tez	No Running Status shows for Task/TaskAttempt
BUG-31637	TEZ-2094, YARN-3207	Tez, YARN	Running Task/TaskAttempt are not excluded when choosing other status in the Dropdownlist
BUG-27488	YARN-2837	YARN	Timeline server needs to recover the timeline DT when restarting
BUG-32619	YARN-3227	YARN	HiveServer2 long running test is failing due to TezSession not being able to renew TIMELINE_DELEGATION_TOP

1.9. Known Issues for HDP 2.2.4

Hortonworks Bug ID	Apache JIRA	Component/s	Summary
BUG-18450	HIVE-7160	Hive	Vectorization Udf: GenericUDFConcat, is not supported for String+Long
BUG-19255		Zookeeper	Uninstalling the ZooKeeper RPM does not remove all ZooKeeper directories
BUG-19911		Falcon	Ensure falcon windows installer takes secure cluster installation into account
BUG-19912		Falcon	Document how to configure Falcon on Kerberized HDP for Windows
BUG-19930		Falcon	Document entity management dashboard
BUG-20856		Hive	Column names are missing from join expression in Map join with CBO enabled
BUG-20866		Mahout	Mahout trainnb command fails with -c option
BUG-21166		Phoenix	testGetCaseInsensitiveDynCol fails intermittently throwing AssertionError
BUG-21254		HBase	hbck tool fixMeta flag not able to recreate deleted entries from hbase:meta

Hortonworks Bug ID	Apache JIRA	Component/s	Summary
			table when just one column is deleted
BUG-21468		Hive	With CBO enabled queries fail with Failed to breakup Windowing invocations into Groups
BUG-22522		YARN	MR Job failed when run via oozie and NN and RM were being killed
BUG-22807		YARN	Non-secure slider app processes run with yarn user.
BUG-22841		HBase	HBase test failed with Insufficient permissions (user=hrt_qa@HWQE.HORTONWORKS.COM error
BUG-23260		Hive	BUG-22878 insert after alter table issue
BUG-23527		Oozie	Oozie config referred to versioned hadoop config
BUG-23590	HIVE-8247	HCatalog	Pig cursor written to Hive via HCat doesn't NULL-fill missing columns
BUG-23619		HBase	On Windows, tests fail complaining about Cannot run program /usr/bin/env
BUG-23655		Oozie	Oozie stuck on mapreduce job because workflow state isn't changing from RUNNING to KILLED
BUG-23820		Accumulo	BulkFileIT-testBulkFile fails due to timeout.
BUG-23830	HIVE-8263	Hive	CBO: Query query has date_dim d1,date_dim d2 and date_dim d3 but the explain has d1, d1 and d1
BUG-23874		Hive	Map join sizing done by auto.convert .join.noconditional task.size doesn't take into account Hash table overhead and results in OOM
BUG-23889		Knox	Windows security scripting should setup Knox to use ActiveDirectory for LDAP
BUG-23897		HBase	HBase REST server continuously restarting in secure windows env
BUG-23981		HBase	IOException: Invalid HFile block magic in Windows unit tests
BUG-24118		Oozie	HDP Windows: Update/ clean up oozie's SQL Server JDBC driver copies
BUG-24136		Falcon	Special/utf8 chars should not be allowed in pipeline name

Hortonworks Bug ID	Apache JIRA	Component/s	Summary
BUG-24517		Oozie	oozie needs to support Application Tag
BUG-24518		Tez	Tez needs to support Application Tag
BUG-24589		Falcon	DR - set up replication for HDFS
BUG-24590		Falcon	DR - set up replication for Table
BUG-24591		Falcon	BUG-24589 UI Mock for setting up HDFS Replication
BUG-24592		Falcon	BUG-24589 Rest API design for HDFS replication
BUG-24594		Falcon	BUG-24590 UI Mock for setup table replication
BUG-24595		Falcon	BUG-24590 Rest API design for set up table replication
BUG-24597		Falcon	DR - delete replication for HDFS
BUG-24598		Falcon	DR - delete replication for Table
BUG-24831		Tez	TEZ windows test framework needs to respect \${fs.defaultFS} in tez configs.
BUG-25049		Knox	Two WebHdfsHaFuncTest are unstable and should be fixed and enabled
BUG-25058	HIVE-8459	Hive	DbLockManager reader locks are locking tables in addition to partitions
BUG-25064		Hive	Hive: Q51 fails in CBO with "Failed to breakup Windowing invocations into Groups. At least 1 group must only depend on input columns"
BUG-25194		Tez	AM running out of memory for partitioned bucketed tables
BUG-25282		Sqoop	I .ArrayIndex OutOfBounds Exception using –map- column-hive
BUG-25352		HDFS	Exit code 0 when command (put/copying a file bigger than quota) fails.
BUG-25380		Tez	For hive to work with Virtual columns and parittion names, we need information available within a record-reader
BUG-25424		Hive	When table is renamed stats are lost as changes are not propagated to metastore tables TAB_COL_STATS and PART_COL_STATS

Hortonworks Bug ID	Apache JIRA	Component/s	Summary
BUG-25450		Mahout	Integrate Mahout in RU Automation Frame work
BUG-25451		Accumulo	[Moved to Dal] Integrate Accumulo in RU Automation Frame work
BUG-25460		Storm	Integrate storm-slider in RU automation framework
BUG-25961		HBase	HBase tests failing with org.apache. hadoop.hbase.NotAllMeta RegionsOnline Exception: Timed out; 10000ms
BUG-26243		Hive	CBO: Q51 fails in explain with Failed to breakup Windowing invocations into Groups.
BUG-26307		Falcon	As a user, I need to be able to replicate the action of creating new database at the target Hive DB
BUG-26309		Falcon	As a user, I need to be able to replicate the action of dropping a database at the target Hive DB
BUG-26310		Falcon	As a user, I need to be able to replicate the action of altering database at the target Hive DB
BUG-26311		Falcon	As a user, I need to be able to replicate the action of creating new table at the target Hive DB
BUG-26312		Falcon	As a user, I need to be able to replicate the action of dropping a table at the target Hive DB
BUG-26313		Falcon	As a user, I need to be able to replicate the action of altering a table at the target Hive DB
BUG-26314		Falcon	As a user, I need to be able to replicate the action of inserting rows into unpartitioned table at the target Hive DB
BUG-26315		Falcon	As a user, I need to be able to replicate the action of inserting and overwriting rows into unpartitioned table at the target Hive DB
BUG-26316		Falcon	As a user, I need to be able to replicate the action of adding a partition into a table at the target Hive DB
BUG-26317		Falcon	As a user, I need to be able to replicate the action of dropping a partition from a table at the target Hive DB

Hortonworks Bug ID	Apache JIRA	Component/s	Summary
BUG-26318		Falcon	As a user, I need to be able to replicate the action of altering a partition in a table at the target Hive DB
BUG-26319		Falcon	As a user, I need to be able to replicate the action of inserting rows into a partition of a table at the target Hive DB
BUG-26320		Falcon	As a user, I need to be able to replicate the action of inserting and overwriting rows into a partition of a table at the target Hive DB
BUG-26322		Falcon	As a user, I need to be able to replicate Date partitions at the target Hive DB
BUG-26323		Falcon	As a user, I need to be able to replicate Site partitions at the target Hive DB
BUG-26324		Falcon	As a user, I need to be able to replicate Regex partitions at the target Hive DB
BUG-26325		Falcon	As a user, I need to be able to replicate custom non standard partitions at the target Hive DB
BUG-26326		Falcon	As a user, I need to be able to replicate multiple tables at once in a database at the target Hive DB
BUG-26327		Falcon	As a user, I need to be able to replicate multiple table names (defined by regular expressions) at the target Hive DB
BUG-26328		Falcon	As a user, I need to be able to replicate Avro partitions at the target Hive DB
BUG-26329		Falcon	As a user, I need to be able to replicate dynamic partitions at the target Hive DB
BUG-26330		Falcon	As a user, I need to be able to replicate hive roles at the target Hive DB
BUG-26419		Tez	Tez application fails with diff client and AM version
BUG-26428		Ranger	XaAdmin and XaAgent jobs for Debian failing on Unix clusters.
BUG-26661		Phoenix	Windows runs failed with "region isn't co-located with its data" exception
BUG-26766		Oozie	[Rolling Upgrade] Allow Prepare Oozie.war to be done without stopping Oozie Server

Hortonworks Bug ID	Apache JIRA	Component/s	Summary
BUG-26875		YARN	Sometimes NodeManager keeps in tracking non- exitant completed container process
BUG-26907	HADOOP-11274	YARN	[HADOOP-11274] Concurrent Modification ThanException in Configuration Copy Constructor
BUG-26944		Falcon, Oozie	E0803: IO error, null during scheduling feed on a cluster with wire enc on
BUG-27089		Knox	Knox YarnSysTest skipped in secure mode for gsInstaller test config
BUG-27091		Knox	Knox YarnSysTest skipped in secure mode for ambari test config
BUG-27094		Knox	Knox HBase tests skipped for ambari test config
BUG-27103		Accumulo	replication.ReplicationIT- replication RecordsAreClosedAfterGarbageCollection failed due to timeout.
BUG-27194		YARN	[YARN-2821] Failures encountered on Distributed Shell on windows
BUG-27256		HBase	Create mr based Hbase Long running application for Rollingupgrade
BUG-27479		Falcon	falcon idempotency is being voilated
BUG-27507		Hive	Hive CLI returns 0 even in case of failures
BUG-27509	HBASE-12464	HBase	test_Replica CopyTable _verifyCopy Table[tableone] fails after trying several times for 'Failed to find location, tableName=hbase:meta, row='
BUG-27513		Storm	Storm-slider default config has ganglia error in supervisor.log
BUG-27549		Knox	Rolling upgrade: knox - webHbase smoke test failed after upgrading core components
BUG-27562		Tez	WordCount on Tez with non-nightly failed with NPE
BUG-27582		Hive	Beeline Client Connections Errors - Obscure errors and exception swallow - 1
BUG-27590		YARN	Distributed shell job does not execute python script in Windows

Hortonworks Bug ID	Apache JIRA	Component/s	Summary
BUG-27592		Hive	Beeline Client Connections Errors - Obscure errors and exception swallow - 4
BUG-27632		Zookeeper	Add feature of retry in zookeeper client
BUG-27636		Hive	Oracle: intemittent acid_concurrency test failures due to NoSuchLockException
BUG-27637		Hive	Postgres: intermittent test failure due to "ERROR: could not serialize access due to read/write dependencies among transactions"
BUG-27638		Falcon	DEV - As a user i need a login page when i run Falcon as a standalone app
BUG-27639		Falcon	DEV - As a user, i need a way to logout when logged in the standalone version of Falcon
BUG-27656	HBASE-12472, HBASE-13192	HBase	IntegrationTestBulkLoad fails on mapreduce
BUG-27708		Falcon	DEV - When uploading an XML of a cluster that already exists (same name) the system allows the operation
BUG-27734		Falcon	DEV - Column titles should have 14px size
BUG-27737		Falcon	DEV - When loading the dashboard, the systen should show a spinning loader for tables that are updating, and just a plain message for columns without entities
BUG-27756		HBase	test_Integration TestMulti GetRegion Replicas slowness
BUG-27769		Sqoop	[Rolling upgrade] [Test issue] Sqoop Long running job finishes before upgrade of all component finishes
BUG-27802		Knox	Improve reliability of Knox smoke test in system test deployment
BUG-27858		HBase	HBase HA tests fail with Table Namespace Manager not ready yet
BUG-27893		Phoenix	testCurrentDate and testCurrentTime are failing due to NTP on windows server
BUG-27906		Knox	Increase timeout of system test WebHCatDslSysTest-testPig
BUG-27927		Falcon	DEV - Correct the steps information

Hortonworks Bug ID	Apache JIRA	Component/s	Summary
BUG-27928		Falcon	DEV - The form needs a "Target Clusters" title and "add cluster" button in step 4 of feed setup
BUG-27929		Falcon	DEV - Put a label before the input and add archive option in step 4 of feed setup
BUG-27933		Falcon	DEV - Each cluster or input container must have it's title
BUG-27936		Falcon	DEV - Correct vertical spacings between labels and inputs in all setups
BUG-27971	HDFS-7558	HDFS	HDFS daemons JVM pauses when the NFS client and server on the same host as other HDFS daemons
BUG-28011		Phoenix	testInnerJoinWithPreFilters and testJoinOverSaltedTables are failing with SequenceNotFoundException exception
BUG-28031		Knox	Knox rolling upgrade system test support for wire encryption
BUG-28039		Knox	Knox Failed Authentication Auditing
BUG-28049		Falcon, RelEng	lineage is not enabled for Falcon in MSI
BUG-28080	FALCON-885	Falcon	Merge falcon-885 to internal repo for Champlain-M10
BUG-28097	HIVE-8915	Hive	Log file explosion due to non-existence of COMPACTION_QUEUE table
BUG-28218		Hive	Hive CLI hangs
BUG-28276		Falcon	Falcon actions intermittently fail with java.net.Socket TimeoutException on windows
BUG-28344		Falcon	DEV - XML editor should only be able to change it's vertical size, not horizontal
BUG-28348		Falcon	DEV - Increase vertical spacing in the space for the action buttons
BUG-28372		Sqoop	With Teradata connector all Sqoop-Hive(hcat) tests failing with NoClassDefFoundError: org/apache/hcatalog/ mapreduce/OutputJobInfo
BUG-28394		Falcon	DEV - Correct font sizes in forms
BUG-28427		Knox	NPE in ambari knox install
BUG-28614		Oozie	Oozie property

Hortonworks Bug ID	Apache JIRA	Component/s	Summary
			is being used for authentication of webhdfs endpoint
BUG-28664		Falcon	DEV - Fix layout for user generated inputs
BUG-28977	FALCON-959	Falcon	Unable to update feed's acl to a different user of different group
BUG-29261		Phoenix	Tests are failing with ERROR 1200 and then raising an error due to jobManager rejection
BUG-29279		YARN	Distributedshell App fails after unregistering the application
BUG-29287		Falcon	Backport https:// issues.apache.org/jira/ browse/FALCON-829
BUG-29427		Hive	Turn off Parquet Vectorization until all data types work: DECIMAL, DATE, TIMESTAMP, CHAR, and VARCHAR
BUG-29730		Storm	Storm Hive, Hbase, Hadoop connector should support user specified UGI in non-secure env
BUG-29864	FALCON-1101	Falcon	Cluster submission in falcon does not create an owned-by edge
BUG-29903		HBase	IntegrationTestMTTR slowness
BUG-30022	HIVE-7693	Hive	Invalid column ref error in order by when using column alias in select clause and using having
BUG-30055		Falcon	Falcon recipe should have rest api
BUG-30059		HBase	In case of secure HBase slider, hbase shell's grant command throws 'ERROR: DISABLED: Security features are not available'
BUG-30784	ZOOKEEPER-1952	Zookeeper	zookeeper.log.file property is not respected; log output goes only to the zookeeper.out
BUG-30984		Hive	Hive compaction tests failing
BUG-31349		Oozie	oozie job in running state is causing intermittent timeout failures
BUG-31353		HBase	IntegrationTest RegionReplica Perf region not serving
BUG-31426		Oozie, RelEng	Oozie failed to start due to "SA" schema not created

Hortonworks Bug ID	Apache JIRA	Component/s	Summary
BUG-31497		Phoenix	[RollingUpgrade] Phoenix intermittently fails to return every column on sql queries
BUG-31522		Tez	You cannot search by the name of 'Queue'
BUG-31526		Tez	The order of columns will go back to the initial setting after you refresh a page or come back from another page.
BUG-31565		Tez	When you kill a job in the middle of running it, it Diagnostics shows 'killed/ failed due to:null".
BUG-31583		Tez	Tez UI : DAG fails but Task attempts don't show any failues
BUG-31594		Tez	TEZ view UI Column selector should have a select all or something to make selecting columns easier
BUG-31595		Tez	Tez UI : Per DAG counters not getting aggregated
BUG-31598		Tez	Tez UI vertical scroll broken from time to time
BUG-31602		Tez	Tez UI :Task Tab should have Vertex name as Hyper link not Vertex ID
BUG-31623		Tez	Tez UI : Increase the size of table name tex box in the DAG view
BUG-31624		Hive	Dropping a 2000+ partition table takes over 10 minutes
BUG-31671		Hive	HS2 concurr tests intermittently fail with http mode on secure Openstack throwing org.apache .hive.service .auth.H Authentication Exception: Kerberos authentication failed
BUG-31676		Falcon	Falcon jar uploading occasionally fails
BUG-31749		Ranger	Usersync NPE when object does not have userNameAttribute
BUG-31782		Ranger	Ranger gives error when using hyphen or space in lastname field
BUG-31822		HCatalog	hcat startup failed on windows
BUG-31936		HBase	test_hbaseBigLinkedList[Loop] TimeoutException
BUG-31943		HBase	test_Integration TestRegion Replicas region not serving
BUG-31949		Ranger	In hive plugin TABLE policy restriction for all tables

Hortonworks Bug ID	Apache JIRA	Component/s	Summary
			{{*}} fails when UDF policy for all functions {{*}} is maintained for a database.
BUG-32026		Oozie	test_mapred_via_oozie_ha[oozie- nn-rm-5-jobs] FAILED
BUG-32049		Kafka	No Kafka Documentation Available at docs.hortonworks.com
BUG-32195		HBase	Need to add hbase-slider RU downgrade
BUG-32342		Tez	Minimum/Maximum Duration show a empty bracket next to 0 secs when you purposefully failed a job.
BUG-32416		Hive	Hive result mismatch in decimal digits when converting from double
BUG-32419		Oozie	TestBundleVersion: oozie bundle takes 1 hr 10mins to recognized a three completed/killed coordinator/wf actions
BUG-32509		HBase	test_runIntegration TestMTTRwith DistributedLogs due to failure in testKillRs HoldingMeta
BUG-32688		Storm	kafka/api/OffsetRequest is not packaged in storm- kafka-example jar
BUG-32690		Oozie	test_pig_via_oozie_ha[resourcemana exception: NotFoundException, message:java. lang.Exception: job, job_1425457888074_0001, is not found,javaClassName
BUG-32732		Sqoop	Netezza skip control characters issue
BUG-32735	SLIDER-799	Slider	Slider to manage strict->lax placement
BUG-32763		Oozie, RelEng	yum cannot find Xvfb for centos06
BUG-32768	FALCON-954	Falcon	CLONE - Secure Kerberos setup : Falcon should periodically revalidate security credentials.
BUG-32795		Hive	HIVE schema failed to upgrade from HDP 2.0/2.1 to HDP 2.2 with schematool
BUG-32859	HIVE-9977	Hive	Hive metastore auto major compaction not happening if data is loaded through dynamic partitioning insert
BUG-32902		Falcon	Falcon pom.xml should not use exact HDP versions for Hive,Oozie and Hadoop

Hortonworks Bug ID	Apache JIRA	Component/s	Summary	
BUG-33054		RelEng, Spark	Spark examples are packaged differently on Windows	
BUG-33056		Spark	{start,stop}-thriftserver equivalent script on Windows is missing	
BUG-33113		HBase	HBase-HA master fail over immediately	
BUG-33167		Hive	Hive does not prevent non whitelisted config params from being set under certain condtions	
BUG-33168		Hive	hive authorization checks on configs should not be done if authorization is diabled	
BUG-33180		Oozie	oozie logging tests fail on MR framework with postgres 9	
BUG-33278	HBASE-13239	HBase	HBASE grants at specific column level does not work for Groups	
BUG-33321		Hue	Created tables not available under Hcatalog	
BUG-33335		Spark	spark make-distribution.sh doesn't evaluate SPARK_HIVE on OSX	
BUG-33338		Hive	Hiveserver2 in HTTP mode is not applying auth_to_local rules	
BUG-33402		Hive	HiveServer2 fails to start without kerberos ticket in place before starting.	
			Workaround: In a secure environment, the admin of the cluster will need to do a Kerberos login from the shell of the user running the HiveServer2 process, before starting the server on the host.	
			If the user hive is going to run the HiveServer2 process and the Kerberos keytab for the principal hive (full principal name of the format: hive/ <hostname>@REALM) is in /etc/security/keytabs/hive.service.keytab, then:</hostname>	
			<pre>1. su - hive 2. kinit -k -t /etc/ security/keytabs/ hive.service.keytab hive/ my_hiveserver2_hostname@MY_</pre>	KERB

Hortonworks Bug ID	Apache JIRA	Component/s	Summary
BUG-33546	YARN-3393	YARN	Getting application(s) goes wrong when app finishes before starting the attempt
BUG-33764		HDP stack	HDP-Select needs to handle user-created directories in / usr/hdp
BUG-35305		Hive	Hive insert query runs distcp for local moves when fs.hdfs.impl.disable.cache=tru
BUG-35528		Ranger	Users must remove empty user entries from their MYSQL database
			Error: Internal Exception: java.sql.SQLException: Connections could not be acquired from the underlying database!
BUG-35942		YARN	Users must manually configure ZooKeeper security with ResourceManager High Availability
BUG-38088	HDFS-7553	Hadoop Common/HDFS	Issue: DataNode restart fails during Rolling Upgrade from 2.2.0-2.2.6 to 2.3.x.
			Details: Not all writers have responder running, but sendOOB() tries anyway. This causes NPE and the shutdown thread dies, halting the shutdown after only shutting down DataXceiverServer
			Workaround: Two possible workarounds:
			Skip the failed datanodes, downgrade them and try to upgrade them again.
			Manually restart the failed datanodes. Notes: See also: BUG-38088, BUG-36247, BUG-38009
BUG-50531		Kafka	Kafka file system support
			Issue: Encrypted file systems such as SafenetFS are not supported for Kafka. Index file corruption can occur.
			For more information, see: Install Kafka.
RMP-2377	HIVE-7926	Hive	Sub-5-Second: LLAP Daemons and LLAP API (tech preview)
RMP-2381		Hive	Sub-5-Second: Lookup Query Metastore in less than 200 milliseconds (tech preview)

Hortonworks Bug ID	Apache JIRA	Component/s	Summary
RMP-2430	HIVE-9792	Hive	SQL: Implement Interval types and datetime arithmetic (partial)
RMP-2448		Hive	Sub-5-Second: Umbrella: Execute TPC-DS query 55 in under 5 second at 30TB and Query 27 at 1 TB (tech preview)
RMP-2449	HIVE-9675	Hive	Transactions: Support BEGIN, COMMIT, ROLLBACK
RMP-2620		Hive	CBO: Introduce semi join reduction in Calcite
RMP-2634		Hive	Replication for Hive (partial)
RMP-2662		Hive	Sub-Second: Vectorization enhancements - MapJoin
RMP-3332	HIVE-9792	Hive	RMP-2430 SQL: Partition pruning support for Intervals
RMP-3333	HIVE-9792	Hive	RMP-2430 SQL: ORC PPD support for Intervals

1.10. Footnotes

1. New for this release. For further information about Spark, see the *Apache Spark Quick Start*.