

# Release Notes - Hadoop HBase - Version 0.20.4

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## 1.

### 1.1. Sub-task

- [\[HBASE-2242\]](#) - [EC2] Downgrade JDK to 6u17 and rebuild AMIs
- [\[HBASE-2263\]](#) - [stargate] multiuser mode: authenticator for zookeeper
- [\[HBASE-2274\]](#) - [stargate] support specification of filters for scanners: JSON descriptors
- [\[HBASE-2319\]](#) - [stargate] multiuser mode: request shaping

### 1.2. Bug

- [\[HBASE-1679\]](#) - Flapping DNS does us more harm than it need to
- [\[HBASE-2023\]](#) - Client sync block can cause 1 thread of a multi-threaded client to block all others
- [\[HBASE-2063\]](#) - For hfileoutputformat, on timeout/failure/kill clean up half-written hfile
- [\[HBASE-2087\]](#) - The wait on compaction because "Too many store files" holds up all flushing
- [\[HBASE-2173\]](#) - New idx javadoc not included with the rest
- [\[HBASE-2177\]](#) - Add timestamping to gc logging options
- [\[HBASE-2180\]](#) - Bad random read performance from synchronizing hfile.fddatainputstream
- [\[HBASE-2199\]](#) - hbase.client.tableindexed.IndexSpecification, lines 72-73 should be reversed
- [\[HBASE-2202\]](#) - IdxRegion crash when binary characters
- [\[HBASE-2203\]](#) - [IHBase] Include only those columns required for indexed scan
- [\[HBASE-2204\]](#) - [IHBase] Index expression evaluation should fail with a DoNotRetryException in case of an invalid index specification
- [\[HBASE-2205\]](#) - [IHBase] Updated Idx package javadocs
- [\[HBASE-2206\]](#) - [IHBase] Idx memory allocation fix
- [\[HBASE-2207\]](#) - [IHBase] Index partial column values
- [\[HBASE-2210\]](#) - NPE in thrift deleteAll
- [\[HBASE-2227\]](#) - [IHBase] Idx Expression functionality is incompatible with SingleColumnValueFilter
- [\[HBASE-2241\]](#) - Change balancer sloppyness from 0.1 to 0.3
- [\[HBASE-2244\]](#) - META gets inconsistent in a number of crash scenarios
- [\[HBASE-2248\]](#) - Provide new non-copy mechanism to assure atomic reads in get and scan
- [\[HBASE-2252\]](#) - Mapping a very big table kills region servers
- [\[HBASE-2258\]](#) - The WhileMatchFilter doesn't delegate the call to filterRow()
- [\[HBASE-2259\]](#) - StackOverflow in ExplicitColumnTracker when row has many columns

- [\[HBASE-2271\]](#) - tableindexed.TestIndexedTable hanging
- [\[HBASE-2284\]](#) - fsWriteLatency metric may be incorrectly reported
- [\[HBASE-2288\]](#) - Shell fails on alter
- [\[HBASE-2293\]](#) - CME in RegionManager#isMetaServer
- [\[HBASE-2322\]](#) - deadlock between put and cacheflusher in 0.20 branch
- [\[HBASE-2335\]](#) - mapred package docs don't say zookeeper jar is a dependency.
- [\[HBASE-2346\]](#) - Usage of FilterList slows down scans
- [\[HBASE-2355\]](#) - unsynchronized logWriters map is mutated from several threads in HLog splitting
- [\[HBASE-2358\]](#) - Store doReconstructionLog will fail if oldlogfile.log is empty and won't load region
- [\[HBASE-2365\]](#) - Double-assignment around split
- [\[HBASE-2373\]](#) - Remove confusing log message of how "BaseScanner GET got different address/startcode than SCAN"
- [\[HBASE-2378\]](#) - Bulk insert with multiple reducers broken due to improper ImmutableBytesWritable comparator
- [\[HBASE-2402\]](#) - [stargate] set maxVersions on gets
- [\[HBASE-2407\]](#) - NPE in TableServers.deleteCachedLocation
- [\[HBASE-2417\]](#) - HCM.locateRootRegion fails hard on "Connection refused"
- [\[HBASE-2422\]](#) - Remove fragmentation indicator for 0.20.4... fix in 0.20.5.
- [\[HBASE-2439\]](#) - HBase can get stuck if updates to META are blocked
- [\[HBASE-2443\]](#) - IPC client can throw NPE if socket creation fails
- [\[HBASE-2448\]](#) - Scanner threads are interrupted without acquiring lock properly
- [\[HBASE-2451\]](#) - .META. by-passes cache; BLOCKCACHE=>'false'
- [\[HBASE-2456\]](#) - deleteChangedReaderObserver spitting warnings after HBASE-2248
- [\[HBASE-2457\]](#) - RS gets stuck compacting region ad infinitum
- [\[HBASE-2458\]](#) - Client stuck in TreeMap.remove
- [\[HBASE-2460\]](#) - add\_table.rb deletes any tables for which the target table name is a prefix
- [\[HBASE-2474\]](#) - Bug in 2248 - mixed version reads (not allowed by spec)
- [\[HBASE-2499\]](#) - Race condition when disabling a table leaves regions in transition
- [\[HBASE-2509\]](#) - NPEs in various places, HRegion.get, HRS.close

### 1.3. Improvement

- [\[HBASE-1505\]](#) - [performance] hfile should change how it reads from hdfs -- pread/seek+read -- dependent on recent history
- [\[HBASE-1892\]](#) - [performance] make hbase splits run faster
- [\[HBASE-2167\]](#) - PE for IHBase
- [\[HBASE-2174\]](#) - Stop from resolving HRegionServer addresses to names using DNS on every heartbeat

- [\[HBASE-2185\]](#) - Add html version of default hbase-site.xml
- [\[HBASE-2189\]](#) - HCM trashes meta cache even when not needed
- [\[HBASE-2190\]](#) - HRS should report to master when HMsg are available
- [\[HBASE-2198\]](#) - SingleColumnValueFilter should be able to find the column value even when it's not specifically added as input on the scan.
- [\[HBASE-2222\]](#) - Improve log "Trying to contact region server Some server for region , row 'ip\_info\_100,,1263329969690', but failed after 11 attempts."
- [\[HBASE-2230\]](#) - SingleColumnValueFilter has an unguarded debug log message.
- [\[HBASE-2257\]](#) - [stargate] multiuser mode
- [\[HBASE-2262\]](#) - ZKW.ensureExists should check for existence
- [\[HBASE-2273\]](#) - [stargate] export metrics via Hadoop metrics, JMX, and ZooKeeper
- [\[HBASE-2277\]](#) - Update branch to hadoop 0.20.2
- [\[HBASE-2403\]](#) - [stargate] client HTable interface to REST connector
- [\[HBASE-2412\]](#) - [stargate] PerformanceEvaluation
- [\[HBASE-2419\]](#) - Remove from RS logs the fat NotServingRegionException stack
- [\[HBASE-2436\]](#) - [stargate] review Jersey and JSON dependencies
- [\[HBASE-2440\]](#) - Master UI should check against known bad JDK versions and warn the user
- [\[HBASE-2453\]](#) - Revisit compaction policies after HBASE-2248 commit
- [\[HBASE-2490\]](#) - Improve the javadoc of the client API for HTable.

#### 1.4. New Feature

- [\[HBASE-2220\]](#) - Add a binary comparator that only compares up to the length of the supplied byte array

#### 1.5. Task

- [\[HBASE-2360\]](#) - Make sure we have all the hadoop fixes in our our copy of its rpc
- [\[HBASE-2381\]](#) - missing copyright headers
- [\[HBASE-2383\]](#) - Replace JSON-licensed json dependencies
- [\[HBASE-2415\]](#) - Disable META splitting in 0.20
- [\[HBASE-2423\]](#) - Update 'Getting Started' for 0.20.4 including making "important configurations more visiable"
- [\[HBASE-2427\]](#) - Replace JSON-licensed json dependencies
- [\[HBASE-2446\]](#) - Remove 'indexed' contrib