

HBase Monitoring

How do I enable JMX in HBase

Please see HBase Metrics page for instructions.

Do I need to add a separate SPM Application for each HBase server/node I want to monitor

No, one Application is enough. Think of an SPM “Application” as a “HBase Cluster”. Thus, to monitor N HBase servers that belong to the same cluster you would create just a single SPM Application and use its Token in SPM configuration file on all HBase servers that are a part of this cluster.

Why don't some HBase metrics graphs have any data

There could be 2 possible reasons:

1. Some metrics are for RegionServers (HBase slaves), some for HBase Master. Thus, if you select the Master node in the UI, graphs that contain Slave-specific metrics will be blank and vice-versa.
2. Different versions of HBase provide different metrics. Thus, if you have an older version of HBase, it may not be providing all metrics that SPM collects and graphs.

Which versions of HBase does SPM support

SPM has been tested with HBase 0.90, 0.92, 0.94, and 0.98, but will work for newer versions, including all CDH versions.

Integration

- Instructions: <https://apps.sematext.com/ui/howto/HBase/overview>

Metrics

Metric

Name Key Agg Type Description

total jvm.memory.heap.max Memory Double Hadoop:service=HBase,name=JvmMetrics#MemMaxM

| Metric | | | | |
|----------------|------------------------|-----|--------|--|
| Name | Key | Agg | Type | Description |
| info | jvm.log.info | Sum | Long | Hadoop:service=HBase,name=JvmMetrics#LogInfo |
| non heap used | jvm.nonheap.used | Avg | Double | Hadoop:service=HBase,name=JvmMetrics#MemNonHeapUsed |
| error | jvm.log.error | Sum | Long | Hadoop:service=HBase,name=JvmMetrics#LogError |
| heap committed | jvm.heap.committed | Avg | Double | Hadoop:service=HBase,name=JvmMetrics#MemHeapCommitted |
| heap max | jvm.heap.max | Max | Double | Hadoop:service=HBase,name=JvmMetrics#MemHeapMax |
| blocked | jvm.threads.blocked | Avg | Long | Hadoop:service=HBase,name=JvmMetrics#ThreadsBlocked |
| terminated | jvm.threads.terminated | Avg | Long | Hadoop:service=HBase,name=JvmMetrics#ThreadsTerminated |
| warn | jvm.log.warn | Sum | Long | Hadoop:service=HBase,name=JvmMetrics#LogWarn |
| timed waiting | jvm.threads.waiting | Avg | Long | Hadoop:service=HBase,name=JvmMetrics#ThreadsTimedWaiting |
| heap used | jvm.heap.used | Avg | Double | Hadoop:service=HBase,name=JvmMetrics#MemHeapUsed |
| fatal | jvm.log.fatal | Sum | Long | Hadoop:service=HBase,name=JvmMetrics#LogFatal |
| non heap max | jvm.nonheap.max | Avg | Double | Hadoop:service=HBase,name=JvmMetrics#MemNonHeapMax |
| waiting | jvm.threads.waiting | Avg | Long | Hadoop:service=HBase,name=JvmMetrics#ThreadsWaiting |
| new | jvm.threads.new | Avg | Long | Hadoop:service=HBase,name=JvmMetrics#ThreadsNew |

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| Metric | | | | |
| Name | Key | Agg | Type | Description |
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| non heap committed | jvm.nonheap-committed | avg | Double | Hadoop:service=HBase,name=JvmMetrics#MemNonHeap |
| runnable | jvm.thread- runnable | avg | Long | Hadoop:service=HBase,name=JvmMetrics#ThreadsRunna |
| ops | hbase.ugi- group-get | sum | Long | Hadoop:service=HBase,name=UgiMetrics#GetGroupsNum |
| failure time | hbase.ugi- login-fail | sum | Double | Hadoop:service=HBase,name=UgiMetrics#LoginFailureAv * |
| | | | | Login- Fail- ureNu- mOps |
| success time | hbase.ugi- login-suc | sum | Double | Hadoop:service=HBase,name=UgiMetrics#LoginSuccessAv * |
| | | | | Lo- gin- Suc- cess- Nu- mOps |
| success ops | hbase.ugi- login-suc | sum | Long | Hadoop:service=HBase,name=UgiMetrics#LoginSuccessN |
| failure ops | hbase.ugi- login-fail | sum | Long | Hadoop:service=HBase,name=UgiMetrics#LoginFailureN |
| time | hbase.ugi- group-get | sum | Double | Hadoop:service=HBase,name=UgiMetrics#v * |
| | | | | Get- Group- sNu- mOps |

| Metric | | | | |
|---------------------|--------|-----|--------|--|
| Name | Key | Agg | Type | Description |
| syncs | hbase. | Sum | Long | Count of syncs the HLog to HDFS.Hadoop:service=HBase,name=RegionServer,sub=WAL#A |
| appendbase.time | hbase. | Sum | Double | Time an append to the log took.Hadoop:service=HBase,name=RegionServer,sub=WAL#A * Append-Time__mean |
| appendbase.max time | hbase. | Max | Double | Time an append to the log took.Hadoop:service=HBase,name=RegionServer,sub=WAL#A |
| sync time | hbase. | Sum | Double | Time it took to sync the HLog to HDFS.Hadoop:service=HBase,name=RegionServer,sub=WAL#A * Sync-Time__mean |

| Metric | | | | |
|-------------|--------------|-------|------|---|
| Name | Key | Agg | Type | Description |
| appendbase. | Sumal.append | Count | | Count of appends to the log.Hadoop:service=HBase,name=RegionServer,sub=WAL |
| appendbase. | Sumal.append | Size | | Size (in bytes) of the data appended to the HLog.Hadoop:service=HBase,name=RegionServer,sub=WAL |
| size | | | | * |
| | | | | Ap-pend-Size_mean |
| appendbase. | Maxal.append | Size | | Size of the largest append.Hadoop:service=HBase,name=RegionServer,sub=WAL#A |
| max | | | | |
| size | | | | |
| appendbase. | Minal.append | Size | | Size of the smallest append.Hadoop:service=HBase,name=RegionServer,sub=WAL#A |
| min | | | | |
| time | | | | |
| appendbase. | Sumal.append | Count | | Count of appends to the log.Hadoop:service=HBase,name=RegionServer,sub=WAL |

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| Metric | | | | |
| Name | Key | Agg | Type | Description |
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| sync max time | hbase.wal.syncTime | Max | Long | Hadoop:service=HBase,name=RegionServer,sub=WAL#SyncTime |
| append base min size | hbase.wal.appendSize | Sum | Long | Count of appends to the log.Hadoop:service=HBase,name=RegionServer,sub=WAL#AppendSize |
| sync min time | hbase.wal.syncTime | Min | Long | Hadoop:service=HBase,name=RegionServer,sub=WAL#SyncTime |
| slow ap- pend | hbase.wal.appendSlow | Sum | Long | Number of appends that were slow.Hadoop:service=HBase,name=RegionServer,sub=WAL#AppendSlow |

| Metric | | | | |
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| Name | Key | Agg | Type | Description |
| compaction.queue | hbase.regionserver.compaction.queue | Avg | Long | Current depth of the compaction request queue. If increasing, we are falling behind with store-file compaction.Hadoop:service=HBase,name=RegionServer,sub=Server |
| compaction.cells.size | hbase.regionserver.compaction.cells.size | Sum | Long | File size total amount of data processed during minor compactions, in bytes.Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | | | | |
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| Name | Key | Agg | Type | Description |
| updates blocked time | hbase.regionserver.updatesBlockedTime | Sum | Long | Number of updates have been blocked so that the mem-store can be flushed. Hadoop:service=HBase,name=RegionServer,sub=Sum |
| major compacted cells | hbase.regionserver.majorCompactions | Sum | Long | The number of cells processed during major compactions. Hadoop:service=HBase,name=RegionServer,sub=Sum |

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| Name | Key | Agg | Type | Description |
| flush queue | hbase.regionserver.flush.queue | Avg | Long | Length of the queue for region flushes. If increasing, we are falling behind with clearing mem-stores out to HDFS. Hadoop:service=HBase,name=RegionServer,sub=Se |
| compact cells | hbase.regionserver.compaction | Sum | Long | Tells number of cells processed during minor com-pactions. Hadoop:service=HBase,name=RegionServer,sub= |

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| Name | Key | Agg | Type | Description |
| flushed cells | hbase.regionserver | sum | long | The number of cells flushed to disk. Hadoop:service=HBase,name=RegionServer,sub=Server |
| flushed cells size | hbase.regionserver | sum | long | The total amount of data flushed to disk, in bytes. Hadoop:service=HBase,name=RegionServer,sub=Server |
| major compacted cells size | hbase.master | sum | long | The total amount of data processed during major compactions, in bytes. Hadoop:service=HBase,name=Master,sub=Master |
| assign min time | hbase.master | min | float | The minimum time taken to assign a region to a server. Hadoop:service=HBase,name=Master,sub=Master |

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| Name | Key | Agg | Type | Description |
| rit count over thresh-old | hbase.master.hi | Long | Long | The number of regions that have been in transition longer than a threshold time (default: 60 seconds).Hadoop:service=HBase,name=Master,sub=AssignmentMan |
| rit count | hbase.master.hi | Long | Long | The number of regions in transition.Hadoop:service=HBase,name=Master,sub=AssignmentMan |
| assignshbase.master.hi | Long | Long | Long | Hadoop:service=HBase,name=Master,sub=AssignmentMan |

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| Metric | | | | |
| Name | Key | Agg | Type | Description |
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| assign time | hbase.Master.DaemonHadoop | Sum | Double | Hadoop:service=HBase,name=Master,sub=AssignmentManager.* |
| | | | As- | |
| | | | sign_num_ops | |
| bulk as-sign time | hbase.Master.DaemonHadoop | Sum | Double | Hadoop:service=HBase,name=Master,sub=AssignmentManager.* |
| | | | BulkA- | |
| | | | s- | |
| | | | sign_num_ops | |
| rit old-est age | hbase.Master.LongestTime | Max | Long | The age of the longest region in transition.Hadoop:service=HBase,name=Master,sub=AssignmentManager |
| bulk as-sign max time | hbase.Master.LargestBulkAssignTime | Max | Double | Hadoop:service=HBase,name=Master,sub=AssignmentManager |
| assign max time | hbase.Master.LargestAssignTime | Max | Double | Hadoop:service=HBase,name=Master,sub=AssignmentManager |
| bulk as-sign min time | hbase.Master.LargestBulkAssignTime | Min | Double | Hadoop:service=HBase,name=Master,sub=AssignmentManager |

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| Name | Key | Agg | Type | Description |
| bulk as- signs | hbase.master.hbase.as-signs | Sum | Double | Hadoop:service=HBase,name=Master,sub=AssignmentManager |
| incremental time | hbase.regionserver.incremental_time | Sum | Double | Hadoop:service=HBase,name=RegionServer,sub=Server#ID |
| slow_puts | hbase.regionserver.slow_puts | Sum | Double | The number of Puts that took over 1000ms to complete.Hadoop:service=HBase,name=RegionServer,sub=Server#ID |
| get max time | hbase.regionserver.get_max_time | Max | Double | Hadoop:service=HBase,name=RegionServer,sub=Server#ID |
| append time | hbase.regionserver.append_time | Sum | Double | Hadoop:service=HBase,name=RegionServer,sub=Server#ID |
| deletes | hbase.regionserver.deletes | Sum | Double | Hadoop:service=HBase,name=RegionServer,sub=Server#ID |
| replay min time | hbase.regionserver.replay_min_time | Min | Double | Hadoop:service=HBase,name=RegionServer,sub=Server#ID |
| mutate min time | hbase.regionserver.mutate_min_time | Min | Double | Hadoop:service=HBase,name=RegionServer,sub=Server#ID |

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| Name | Key | Agg | Type | Description |
| get time | hbase. | Sum | Double | Hadoop:service=HBase,name=RegionServer,sub=Server#C * Get__mean |
| incremental max time | hbase. | Max | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#I |
| slow ap- pend | hbase. | Sum | Long | slow ap- pend num- ber of Ap- pend that took over 1000ms to com- plete.Hadoop:service=HBase,name=RegionServer,sub=Ser |
| mutate max time | hbase. | Max | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#M |
| get min time | hbase. | Min | Double | Hadoop:service=HBase,name=RegionServer,sub=Server#C |
| incremental | hbase. | Sum | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#I |
| replay max time | hbase. | Max | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#I |
| delete time | hbase. | Sum | Double | Hadoop:service=HBase,name=RegionServer,sub=Server#I * Delete__mean |

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| Name | Key | Agg | Type | Description |
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| slow deletes | hbase.1 | Sum | Deletes | Low number of Deletes that took over 1000ms to complete.Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| delete max time | hbase.1 | Max | Deletes | Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| append | hbase.1 | Sum | Appends | Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| append max time | hbase.1 | Max | Appends | Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| delete min time | hbase.1 | Min | Deletes | Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| mutates | hbase.1 | Sum | Mutates | Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| increment min time | hbase.1 | Min | Increments | Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| append min time | hbase.1 | Min | Appends | Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| replay time | hbase.1 | Sum | Replays | Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| | | | * | Re-play__mean |

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| Name | Key | Agg | Type | Description |
| slow in-cre-ments | hbase.ri | slow in-cre-ments | Long | The slow num-ber of In-cre-ments that took over 1000ms to com-plete.Hadoop:service=HBase,name=RegionServer,sub=Server#I |
| replays | hbase.ri | slow replays | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#I |
| gets | hbase.ri | slow gets | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#C |
| slow gets | hbase.ri | slow gets | Long | The num-ber of Gets that took over 1000ms to com-plete.Hadoop:service=HBase,name=RegionServer,sub=Ser |
| mutate time | hbase.ri | slow mutate | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#M |
| restore max time | hbase.ri | slow restore | Long | Hadoop:service=HBase,name=Master,sub=Snapshots#Sna |

| Metric | | | | |
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| Name | Key | Agg | Type | Description |
| snapshot.time | hbase.Snapshots | DOUBLE | Time | Time it takes to finish snapshot().Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshot-time__mean |
| snapshot.time.max | hbase.Snapshots | LONG | Time | Maximum time Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshot-time |
| clone.time | hbase.Snapshots | DOUBLE | Time | Time it takes to finish cloneSnapshot().Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshot-Clone-time__mean |
| snapshot.count | hbase.Snapshots | LONG | Count | Count of snapshot() invocations.Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshot-count |

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| Name | Key | Agg | Type | Description |
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| restorehbase.Snapshots | hbase.Snapshots | longest | Count | Count of re-storeSnapshot() invocations.Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshots |
| clone min time | hbase.Snapshots | longest | Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshots | |
| clones | hbase.Snapshots | longest | Count | Count of cloneSnapshot() invocations.Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshots |
| snapshot min time | hbase.Snapshots | longest | Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshots | |
| clone max time | hbase.Snapshots | longest | Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshots | |

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| Name | Key | Agg | Type | Description |
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| restorehbase.snapshot.restore.time | hbase.snapshot.restore.time | sum | Double | Time it takes to finish restoreSnapshot().Hadoop:service=HBase,name=Master,sub=Snapshots#SnapshotRestoreTime_mean |
| restorehbase.snapshot.restore.min time | hbase.snapshot.restore.time | min | Double | Time it takes to finish restoreSnapshot().Hadoop:service=HBase,name=Master,sub=Snapshots#SnapshotRestoreTime_min |
| meta hlog split max size | hbase.master.hlog.split.size | max | Long | Maximum size of HLog files being split.Hadoop:service=HBase,name=Master,sub=FileSystem#MetaHLogSplitSize_max |
| hlog split size | hbase.master.hlog.split.size | sum | Double | Size of HLog files being split.Hadoop:service=HBase,name=Master,sub=FileSystem#MetaHLogSplitSize_mean |
| hlog split min time | hbase.master.hlog.split.time | min | Long | Minimum time to split HLog files.Hadoop:service=HBase,name=Master,sub=FileSystem#MetaHLogSplitTime_min |

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| Name | Key | Agg | Type | Description |
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| hlog split max size | hbase.Master.hlogsplitmaxsize | MAX | DOUBLE | Hadoop:service=HBase,name=Master,sub=FileSystem#HLogSplitMaxSize |
| hlog splits | hbase.Master.hlogsplitcount | SUM | LONG | Count of HLog.splitLog() invocations.Hadoop:service=HBase,name=Master,sub=FileSystem#HLogSplitCount |
| meta hlog split time | hbase.Master.MetaHlogSplitTime | DOUBLE | DOUBLE | Time it takes to finish split-MetaLog().Hadoop:service=HBase,name=Master,sub=FileSystem#MetaHlogSplitTime_mean |
| meta hlog split max time | hbase.Master.hlogsplitmaxtime | MAX | DOUBLE | Hadoop:service=HBase,name=Master,sub=FileSystem#MetaHlogSplitMaxTime |

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| Name | Key | Agg | Type | Description |
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| hlog split time | hbase.master.logsplit | sum | Double | Time it takes to fin- ish HLog.splitLog().Hadoop:service=HBase,name=Master,sub= * HlogSplit- Time_mean |
| hlog split min size | hbase.master.logsplit | min | Long | File size.Hadoop:service=HBase,name=Master,sub=FileSystem#H |
| meta hlog splits | hbase.master.logmeta | sum | Long | Count of split- Met- a- Log() in- vo- ca- tions.Hadoop:service=HBase,name=Master,sub=FileSystem |
| meta hlog split min size | hbase.master.logmeta | min | Long | File size.Hadoop:service=HBase,name=Master,sub=FileSystem#M |
| meta hlog split min time | hbase.master.logmeta | min | Long | File size.Hadoop:service=HBase,name=Master,sub=FileSystem#M |

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| Metric | | | | |
| Name | Key | Agg | Type | Description |
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| meta hlog splits | hbase:meta | sum | long | Count of split-Log() in-volume of splits. tions.Hadoop:service=HBase,name=Master,sub=FileSystem |
| hlog split max time | hbase:master | max | long | Maximum time to split a log. tions.Hadoop:service=HBase,name=Master,sub=FileSystem#HLog |
| hlog splits | hbase:master | sum | long | Count of HLog.splitLog() in-volume of splits. tions.Hadoop:service=HBase,name=Master,sub=FileSystem |
| meta hlog split size | hbase:meta | avg | double | Size of hbase:meta HLog files being split. tions.Hadoop:service=HBase,name=Master,sub=FileSystem* MetaHlogSplit-Size_mean |
| lower limit | hbase:regionserver | avg | long | Lower limit of region server memory. 'hbase.regionserver.global.memstore.lowerLimit' value. |

| Metric | | | | |
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| Name | Key | Agg | Type | Description |
| static bloom size | hbase.regionserver.staticbloomsize | Avg | Long | Size of the static bloom filters. Hadoop:service=HBase,name=RegionServer,sub=Server |
| store files | hbase.regionserver.storefiles | Avg | Long | Number of Store Files. Hadoop:service=HBase,name=RegionServer,sub=Server |
| store index size | hbase.regionserver.storeindexsize | Avg | Long | Size of indexes in store-files on disk. Hadoop:service=HBase,name=RegionServer,sub=Server |
| store file size | hbase.regionserver.storefilesize | Avg | Long | Size of store-files being served. Hadoop:service=HBase,name=RegionServer,sub=Server |
| mem store size | hbase.regionserver.memstoresize | Avg | Long | Size of the mem-store. Hadoop:service=HBase,name=RegionServer,sub=Server |

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| Metric | | | | |
| Name | Key | Agg | Type | Description |
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| static index size | hbase.regionserver.staticindexsize | Avg | Long | Size of the static indexes.Hadoop:service=HBase,name=RegionServer,sub=Server |
| upper limit | hbase.regionserver.global.memstore.upperLimit | Max | Long | Upper limit of the memstore value. |
| stores | hbase.regionserver.stores | Avg | Long | Number of Stores.Hadoop:service=HBase,name=RegionServer,sub=Server |
| regions | hbase.regionserver.regs | Avg | Long | Number of regions.Hadoop:service=HBase,name=RegionServer,sub=Server |
| active handlers | hbase.ipc.handler.active | Avg | Long | Number of active rpc handlers.Hadoop:service=HBase,name=IPC,sub=IPC#numActive |
| process call time | hbase.ipc.process.call.time | Sum | Double | Hadoop:service=HBase,name=IPC,sub=IPC#ProcessCallTime_num_ops * |
| process call min time | hbase.ipc.process.call.time | Min | Double | Hadoop:service=HBase,name=IPC,sub=IPC#ProcessCallTime_min |

| Metric | | | | |
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| Name | Key | Agg | Type | Description |
| calls in priority queue | hbase.ipc.queue.length | avg | Long | The size number of currently enqueued priority (internal house-keeping) requests. Hadoop:service=HBase,name=IPC,sub=IPC#numC |
| authorization successes | hbase.ipc.authorization.successes | sum | Long | Number of authorization successes. Hadoop:service=HBase,name=IPC,sub=IPC#autho |
| received bytes | hbase.ipc.bytesReceived | sum | Long | Number of bytes received. Hadoop:service=HBase,name=IPC,sub=IPC#receiv |
| sent bytes | hbase.ipc.bytesSent | sum | Long | Number of bytes sent. Hadoop:service=HBase,name=IPC,sub=IPC#sentByt |

| Metric | | | | |
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| Name | Key | Agg | Type | Description |
| authorization failures | hbase.ipc.authz.failures | Sum | Long | The number of authorization failures. Hadoop:service=HBase,name=IPC,sub=IPC#authorization failures |
| process call max time | hbase.ipc.processcall.maxtime | Max | Long | The maximum time taken by a process call. Hadoop:service=HBase,name=IPC,sub=IPC#ProcessCallTime |
| calls in replication queue | hbase.ipc.replication.queue.calls | Agg | Long | The number of calls in the replication queue. Hadoop:service=HBase,name=IPC,sub=IPC#numCallsInReplicationQueue |
| process calls | hbase.ipc.processcalls | Sum | Long | The number of process calls. Hadoop:service=HBase,name=IPC,sub=IPC#ProcessCalls |
| calls in general queue | hbase.ipc.queue.calls | Agg | Long | The number of calls in the general queue. Hadoop:service=HBase,name=IPC,sub=IPC#numCallsInGeneralQueue |

| Metric | | | | |
|-------------------------|-----------------------------------|-----|--------|---|
| Name | Key | Agg | Type | Description |
| queue call time | hbase.ipc.queue.call.time | Sum | Double | Hadoop:service=HBase,name=IPC,sub=IPC#QueueCallTime_num_ops |
| queue call min time | hbase.ipc.queue.call.min.time | Min | Long | Hadoop:service=HBase,name=IPC,sub=IPC#QueueCallTime_min_ops |
| queue call max time | hbase.ipc.queue.call.max.time | Max | Long | Hadoop:service=HBase,name=IPC,sub=IPC#QueueCallTime_max_ops |
| queue size | hbase.ipc.queue.size | Avg | Long | Number of bytes in the call queues.Hadoop:service=HBase,name=IPC,sub=IPC#queue_size |
| authentication failures | hbase.rpc.authentication.failures | Sum | Long | Number of authentication failures.Hadoop:service=HBase,name=IPC,sub=IPC#authentication_failures |
| queue calls | hbase.ipc.queue.calls | Sum | Long | Hadoop:service=HBase,name=IPC,sub=IPC#QueueCallTime_num_ops |

| Metric | | | | |
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| Name | Key | Agg | Type | Description |
| open con- nec- tions | hbase.ipc | avg | connections | Number of open connections at the RPC layer. Hadoop:service=HBase,name=IPC,sub=IPC#numOpenConnections |
| authentication suc- cesses | hbase.ipc | sum | authentication | Number of authentication successes. Hadoop:service=HBase,name=IPC,sub=IPC#authenticationSuccesses |
| total re- quests | hbase.regionserver | sum | requests | Total number of requests this RegionServer has answered. Hadoop:service=HBase,name=RegionServer,sub=Server#totalRequests |
| read re- quests | hbase.regionserver | sum | requests | Number of read requests. Hadoop:service=HBase,name=RegionServer,sub=Server#readRequests |

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|--------------------|-------------------------------|-----|----------|--|
| Metric | | | | |
| Name | Key | Agg | Type | Description |
| <hr/> | | | | |
| write re-requests | hbase.summary.requests | sum | double | Hadoop:service=HBase,name=RegionServer,sub=Server#v |
| applied ops | hbase.summary.ops.applied | sum | double | Hadoop:service=HBase,name=RegionServer,sub=Replicati |
| applied batches | hbase.summary.batches.applied | sum | double | Hadoop:service=HBase,name=RegionServer,sub=Replicati |
| balance min time | hbase.master.balance.min | min | double | Hadoop:service=HBase,name=Master,sub=Balancer#Bala |
| ops | hbase.master.balance.ops | avg | double | Hadoop:service=HBase,name=Master,sub=Balancer#Bala |
| time | hbase.master.balance.time | sum | double | Hadoop:service=HBase,name=Master,sub=Balancer#Bala |
| | | | * | |
| | | | Bal- | |
| | | | ancer- | |
| | | | Clus- | |
| | | | ter_mean | |
| misc in-vo-cations | hbase.summary.misc | sum | double | Hadoop:service=HBase,name=Master,sub=Balancer#misc |
| balance max time | hbase.master.balance.max | max | double | Hadoop:service=HBase,name=Master,sub=Balancer#Bala |

| Metric | | | | |
|-----------------|---------|-----|-------|--|
| Name | Key | Agg | Type | Description |
| flushed cells | hbase.r | Sum | Long | Number of mob cells flushed to disk. Hadoop:service=HBase,name=RegionServer,sub=Server |
| scan cells size | hbase.r | Sum | Long | Total amount of scanned mob cells, in bytes. Hadoop:service=HBase,name=RegionServer,sub=Server |
| file cache hits | hbase.r | Avg | Float | Percentage of mob file cache hits. Hadoop:service=HBase,name=RegionServer,sub=Server |
| file caches | hbase.r | Avg | Long | Count of cached mob files. Hadoop:service=HBase,name=RegionServer,sub=Server |

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|-------------------|-----------|-----|------|---|
| Metric | | | | |
| Name | Key | Agg | Type | Description |
| <hr/> | | | | |
| compactmobcells | hbase.mob | Sum | Long | The number of cells moved to mob during compaction. Hadoop:service=HBase,name=RegionServer,sub=Server |
| filecacheaccesses | hbase.mob | Sum | Long | The count of accesses to the mob file cache. Hadoop:service=HBase,name=RegionServer,sub=Server |
| scanmobcells | hbase.mob | Sum | Long | The number of scanned mob cells. Hadoop:service=HBase,name=RegionServer,sub=Server |
| filecachemisses | hbase.mob | Sum | Long | The count of misses to the mob file cache. Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | Name | Key | Agg | Type | Description |
|-------------|-------------|-----|-----|------|---|
| compactness | compactness | mob | Sum | Long | The number of cells moved from mob during compaction. |
| compactness | compactness | mob | Sum | Long | The size of cells move to mob during compaction, |

| Metric | | | | |
|-------------------------|-----------|-----|------|--|
| Name | Key | Agg | Type | Description |
| compactmobcellsfromsize | hbase.mob | Sum | Long | The amount of cells moved from mob during compaction, in bytes.Hadoop:service=HBase,name=RegionServer,sub=Server |
| filecacheevictions | hbase.mob | Sum | Long | The number of items evicted from the mob file cache.Hadoop:service=HBase,name=RegionServer,sub=Server |
| flusheshbase.mob | hbase.mob | Sum | Long | The number of the flushes in mob-enabled stores.Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | | | | |
|--------------------|-------------------------------|-----|------|---|
| Name | Key | Agg | Type | Description |
| flushed cells size | hbase.rmob.flushed cells size | Sum | Long | The total amount of mob cells flushed to disk, in bytes.Hadoop:service=HBase,name=RegionServer,sub=Server |
| local files | hbase.rmob.local files | Avg | Long | The percent of HFiles that are stored on the local hdfs data node.Hadoop:service=HBase,name=RegionServer,sub=Server |
| hlog files | hbase.rmob.hlog files | Avg | Long | The number of write ahead logs not yet archived.Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | | | | |
|--------------------------------------|--|-----|--------|--|
| Name | Key | Agg | Type | Description |
| hlog files size | hbase.regionserver. hlog.files.size | Avg | Long | Size of all HLog Files.Hadoop:service=HBase,name=RegionServer,sub=Server |
| cluster re- quests | hbase.master. cluster.requests | Sum | Long | Hadoop:service=HBase,name=Master,sub=Server#cluster |
| dead re- gion servers | hbase.master. dead.servers | Avg | Double | Hadoop:service=HBase,name=Master,sub=Server#numDe |
| region servers | hbase.master. region.servers | Avg | Double | Hadoop:service=HBase,name=Master,sub=Server#numRe |
| average load | hbase.master. average.load | Avg | Double | Hadoop:service=HBase,name=Master,sub=Server#average |
| mutatio- n with- out wal | hbase.regionserver. mutations.without.wal | Sum | Long | Number of mu- ta- tions that have been sent by clients with the write ahead log- ging turned off.Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | | | | |
|---------------------------------|------------------|-----|------|--|
| Name | Key | Agg | Type | Description |
| mutatehbase.ops.failed | hbase.operations | sum | Long | Number of Check and Mutate calls that failed the checks.Hadoop:service=HBase,name=RegionServer,sub=Server |
| mutatehbase.ops.passed | hbase.operations | sum | Long | Number of Check and Mutate calls that passed the checks.Hadoop:service=HBase,name=RegionServer,sub=Server |
| mutatehbase.ops.withoutwal.size | hbase.operations | sum | Long | Size of data that has been sent by clients with the write ahead logging turned off.Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | | | | |
|-------------|------------------|-----|-------|---|
| Name | Key | Agg | Type | Description |
| hits | hbase.cache.hits | sum | long | Count of the hit on the block cache.Hadoop:service=HBase,name=RegionServer,sub=Server |
| expresshit% | hbase.cache.hit% | avg | float | The rate per-cent of the time that re-quests with the cache turned on hit the cache.Hadoop:service=HBase,name=RegionServer,sub=Server |
| hit% | hbase.cache.hit% | avg | float | Percent of block cache re-quests that are hits.Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | | | | |
|------------------|-----------------------|-----|------|---|
| Name | Key | Agg | Type | Description |
| cache free size | hbase.cache.free.size | Avg | Long | Size of the block cache that is not occupied.Hadoop:service=HBase,name=RegionServer,sub=Server |
| block cache size | hbase.cache.size | Avg | Long | Size of the block cache.Hadoop:service=HBase,name=RegionServer,sub=Server |
| miss | hbase.cache.misses | Sum | Long | Number of re-quests for a block that missed the block cache.Hadoop:service=HBase,name=RegionServer,sub=Server |
| cache count | hbase.cache.count | Avg | Long | Number of block in the block cache.Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | | | | |
|----------------------|-----------------------------------|-------|------|--|
| Name | Key | Agg | Type | Description |
| evictions | hbase.cache.evictions | Count | | Count of the number of blocks evicted from the block cache.Hadoop:service=HBase,name=RegionServer,sub=Server |
| shipped batches | hbase.replication.hadoops shipped | Sum | | HBase,name=RegionServer,sub=Replication |
| shipped ops | hbase.replication.hadoops shipped | Sum | | HBase,name=RegionServer,sub=Replication |
| log ed-its read | hbase.replication.hadoops send | Sum | | HBase,name=RegionServer,sub=Replication |
| log queue | hbase.replication.hadoops | Sum | | HBase,name=RegionServer,sub=Replication |
| shipped bytes | hbase.replication.hadoops shipped | Sum | | HBase,name=RegionServer,sub=Replication |
| log ed-its fil-tered | hbase.replication.hadoops filter | Sum | | HBase,name=RegionServer,sub=Replication |
| log read bytes | hbase.replication.hadoops send | Sum | | HBase,name=RegionServer,sub=Replication |

| Metric | | | | |
|-------------|-------------------|------|---------|---|
| Name | Key | Agg | Type | Description |
| hedge | hbase.srds.hedge | Long | The | |
| read | | | num- | |
| wins | | | ber | |
| | | | of | |
| | | | times | |
| | | | we | |
| | | | started | |
| | | | a | |
| | | | hedged | |
| | | | read | |
| | | | and | |
| | | | a | |
| | | | hedged | |
| | | | read | |
| | | | won. | Hadoop:service=HBase,name=RegionServer,sub=Serv |
| hedge | hbase.srds.hedge | Long | The | |
| reads | | | num- | |
| | | | ber | |
| | | | of | |
| | | | times | |
| | | | we | |
| | | | started | |
| | | | a | |
| | | | hedged | |
| | | | read. | Hadoop:service=HBase,name=RegionServer,sub=Serv |
| stores | hbase.srds | Long | | |
| flushes | hbase.flushes | Long | | |
| compactions | hbase.compactions | Long | | |
| store | hbase.srds | Long | | |
| files | hbase.srds | Long | | |
| store | hbase.srds | Long | | |
| file | hbase.srds | Long | | |
| in- | | | | |
| dex | | | | |
| size | | | | |

| Metric | | | | |
|-------------|----------------------|-----|---------|-------------|
| Name | Key | Agg | Type | Description |
| sync | hbase.hsync.latency | Max | Latency | max |
| read | hbase.hread.latency | Max | Latency | max |
| write | hbase.hwrite.latency | Max | Latency | max |
| sync | hbase.hsync.latency | Min | Latency | min |
| read | hbase.hread.latency | Min | Latency | min |
| write | hbase.hwrite.latency | Min | Latency | min |
| flush | hbase.hflush.queue | Avg | Double | size |
| max | hbase.hflush.time | Max | Time | max |
| min | hbase.hflush.time | Min | Time | min |
| flushes | hbase.hflush | Sum | Count | |
| max | hbase.hflush | Max | Count | |
| memstore | hbase.memstore | Avg | Size | |
| min | hbase.memstore | Min | Size | |
| min | hbase.compaction | Min | Time | |
| max | hbase.compaction | Max | Time | |
| max | hbase.compaction | Max | Size | |
| compactions | hbase.compaction | Sum | Count | |
| compaction | hbase.compaction | Avg | Double | queue |
| min | hbase.compaction | Min | Size | |

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|------------------------|------------------------------|-----|--------|------------------|
| Metric | | | | |
| Name | Key | Agg | Type | Description |
| <hr/> | | | | |
| cache size | hbase.cache.size | Avg | Long | Cache size |
| miss count | hbase.cache.miss.count | Sum | Long | Cache misses |
| cache free | hbase.cache.free | Avg | Long | Cache free |
| hit count | hbase.cache.hit.count | Sum | Long | Cache hits |
| block cache count | hbase.block.cache.count | Avg | Long | Block count |
| block cache hits | hbase.block.cache.hits | Sum | Long | Block hits |
| block cache hits ratio | hbase.block.cache.hits.ratio | Avg | Double | Block hits ratio |
| evicted count | hbase.cache.evicted.count | Sum | Long | Cache evictions |
| block cache hits ratio | hbase.block.cache.hits.ratio | Avg | Double | Block hits ratio |
| max splits | hbase.splits.max | Max | Long | Splits max |
| splits | hbase.splits | Sum | Long | Splits |
| max splits size | hbase.splits.size.max | Max | Long | Splits size max |
| min splits size | hbase.splits.size.min | Min | Long | Splits size min |
| splits | hbase.splits | Sum | Long | Splits |
| regions | hbase.regions | Avg | Long | Regions |
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|-----------------------------|---------------------------------|-----|--------|---|
| Metric | | | | |
| Name | Key | Agg | Type | Description |
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| total memory max | jvm.mem. Max | Sum | Double | Hadoop:service=HBase,name=JvmMetrics#MemMaxMemory |
| info | jvm.log. Info | Sum | Long | Hadoop:service=HBase,name=JvmMetrics#LogInfo |
| non heap used | jvm.mem. NonHeapUsed | Sum | Double | Hadoop:service=HBase,name=JvmMetrics#MemNonHeapUsed |
| error | jvm.log. Error | Sum | Long | Hadoop:service=HBase,name=JvmMetrics#LogError |
| heap com- mit- ted | jvm.mem. HeapCommitted | Sum | Double | Hadoop:service=HBase,name=JvmMetrics#MemHeapCommitted |
| heap max | jvm.mem. HeapMax | Sum | Double | Hadoop:service=HBase,name=JvmMetrics#MemHeapMax |
| blocked | jvm.threads. Blocked | Avg | Long | Hadoop:service=HBase,name=JvmMetrics#ThreadsBlocked |
| terminated | jvm.threads. Terminated | Avg | Long | Hadoop:service=HBase,name=JvmMetrics#ThreadsTerminated |
| warn | jvm.log. Warn | Sum | Long | Hadoop:service=HBase,name=JvmMetrics#LogWarn |
| timed wait- ing | jvm.threads. WaitingTimedOut | Avg | Long | Hadoop:service=HBase,name=JvmMetrics#ThreadsWaitingTimedOut |
| heap used | jvm.mem. HeapUsed | Sum | Double | Hadoop:service=HBase,name=JvmMetrics#MemHeapUsed |
| fatal | jvm.log. Fatal | Sum | Long | Hadoop:service=HBase,name=JvmMetrics#LogFatal |
| non heap max | jvm.mem. NonHeapMax | Sum | Double | Hadoop:service=HBase,name=JvmMetrics#MemNonHeapMax |
| waiting | jvm.threads. Waiting | Avg | Long | Hadoop:service=HBase,name=JvmMetrics#ThreadsWaiting |
| new | jvm.threads. New | Avg | Long | Hadoop:service=HBase,name=JvmMetrics#ThreadsNew |

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|--------------------|-----------------------|-----|--------|---|
| Metric | | | | |
| Name | Key | Agg | Type | Description |
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| non heap committed | jvm.nonheap-committed | avg | Double | Hadoop:service=HBase,name=JvmMetrics#MemNonHeap |
| runnable threads | jvm.thread-avg | avg | Long | Hadoop:service=HBase,name=JvmMetrics#ThreadsRunna |
| ops | hbase.ugi-group-get | sum | Long | Hadoop:service=HBase,name=UgiMetrics#GetGroupsNum |
| failure time | hbase.ugi-login-fail | sum | Double | Hadoop:service=HBase,name=UgiMetrics#LoginFailureAv |
| | | | * | |
| | | | | Login-Fail-ureNu-mOps |
| success time | hbase.ugi-login-suc | sum | Double | Hadoop:service=HBase,name=UgiMetrics#LoginSuccessAv |
| | | | * | |
| | | | | Lo-gin-Suc-cess-Nu-mOps |
| success ops | hbase.ugi-login-suc | sum | Long | Hadoop:service=HBase,name=UgiMetrics#LoginSuccessN |
| failure ops | hbase.ugi-login-fail | sum | Long | Hadoop:service=HBase,name=UgiMetrics#LoginFailureN |
| time | hbase.ugi-group-get | sum | Double | Hadoop:service=HBase,name=UgiMetrics#v |
| | | | * | |
| | | | | Get-Group-sNu-mOps |

| Metric | | | | |
|---------------------|--------|-----|--------|--|
| Name | Key | Agg | Type | Description |
| syncs | hbase. | Sum | Long | Count of syncs the HLog to HDFS.Hadoop:service=HBase,name=RegionServer,sub=WAL#A |
| appendbase.time | hbase. | Sum | Double | Time an append to the log took.Hadoop:service=HBase,name=RegionServer,sub=WAL#A * Append-Time__mean |
| appendbase.max time | hbase. | Max | Double | Time an append to the log took.Hadoop:service=HBase,name=RegionServer,sub=WAL#A |
| sync time | hbase. | Sum | Double | Time it took to sync the HLog to HDFS.Hadoop:service=HBase,name=RegionServer,sub=WAL#A * Sync-Time__mean |

| Metric | | | | |
|-------------|--------------|-------|------|---|
| Name | Key | Agg | Type | Description |
| appendbase. | Sumal.append | Count | | Count of appends to the log.Hadoop:service=HBase,name=RegionServer,sub=WAL |
| appendbase. | Sumal.append | Size | | Size (in bytes) of the data appended to the HLog.Hadoop:service=HBase,name=RegionServer,sub=WAL |
| size | | | | * |
| | | | | Ap-pend-Size_mean |
| appendbase. | Maxal.append | Size | | Size of the largest append.Hadoop:service=HBase,name=RegionServer,sub=WAL#A |
| max | | | | |
| size | | | | |
| appendbase. | Minal.append | Time | | Time taken for the smallest append.Hadoop:service=HBase,name=RegionServer,sub=WAL#A |
| min | | | | |
| time | | | | |
| appendbase. | Sumal.append | Count | | Count of appends to the log.Hadoop:service=HBase,name=RegionServer,sub=WAL |

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| Metric | | | | |
| Name | Key | Agg | Type | Description |
| <hr/> | | | | |
| sync max time | hbase.wal.syncTime | Max | Long | Hadoop:service=HBase,name=RegionServer,sub=WAL#SyncTime |
| append base min size | hbase.wal.appendSize | Sum | Long | Count of appends to the log.Hadoop:service=HBase,name=RegionServer,sub=WAL#AppendSize |
| sync min time | hbase.wal.syncTime | Min | Long | Hadoop:service=HBase,name=RegionServer,sub=WAL#SyncTime |
| slow ap- pend | hbase.wal.appendSlow | Sum | Long | Number of appends that were slow.Hadoop:service=HBase,name=RegionServer,sub=WAL#AppendSlow |

| Metric | | | | |
|-----------------------|--------------------|-----|------------|--|
| Name | Key | Agg | Type | Description |
| compaction.queue | hbase.regionserver | Avg | Compaction | Current depth of the compaction request queue. If increasing, we are falling behind with store-file compaction.Hadoop:service=HBase,name=RegionServer,sub=Server |
| compaction.cells.size | hbase.regionserver | Sum | Compaction | File size total amount of data processed during minor compactions, in bytes.Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | | | | |
|-----------------------|--|-----|------|---|
| Name | Key | Agg | Type | Description |
| updates blocked time | hbase.regionserver.updatesBlockedTime | Sum | Long | Number of updates have been blocked so that the mem-store can be flushed. Hadoop:service=HBase,name=RegionServer,sub= |
| major compacted cells | hbase.regionserver.majorCompactedCells | Sum | Long | The number of cells processed during major compactions. Hadoop:service=HBase,name=RegionServer,sub= |

| Metric | | | | |
|---------------|--------------------------------|-----|------|--|
| Name | Key | Agg | Type | Description |
| flush queue | hbase.regionserver.flush.queue | Avg | Long | Length of the queue for region flushes. If increasing, we are falling behind with clearing mem-stores out to HDFS. Hadoop:service=HBase,name=RegionServer,sub=Se |
| compact cells | hbase.regionserver.compaction | Sum | Long | Tells number of cells processed during minor com-pactions. Hadoop:service=HBase,name=RegionServer,sub= |

| Metric | | | | |
|----------------------------|--------------------|-----|-------|--|
| Name | Key | Agg | Type | Description |
| flushed cells | hbase.regionserver | sum | long | The number of cells flushed to disk. Hadoop:service=HBase,name=RegionServer,sub=Server |
| flushed cells size | hbase.regionserver | sum | long | The total amount of data flushed to disk, in bytes. Hadoop:service=HBase,name=RegionServer,sub=Server |
| major compacted cells size | hbase.master | sum | long | The total amount of data processed during major compacted, in bytes. Hadoop:service=HBase,name=Master,sub=Master |
| assign min time | hbase.master | min | float | The minimum time taken to assign a region to a server. Hadoop:service=HBase,name=Master,sub=Master |

| Metric | | | | |
|---------------------------|-----------------|-----|------|--|
| Name | Key | Agg | Type | Description |
| rit count over thresh-old | hbase.master.hi | avg | Long | The number of regions that have been in transition longer than a threshold time (default: 60 seconds).Hadoop:service=HBase,name=Master,sub=AssignmentManager |
| rit count | hbase.master.hi | avg | Long | The number of regions in transition.Hadoop:service=HBase,name=Master,sub=AssignmentManager |
| assignshbase.master.hi | sum | avg | Long | Hadoop:service=HBase,name=Master,sub=AssignmentManager |

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| Metric | | | | |
| Name | Key | Agg | Type | Description |
| <hr/> | | | | |
| assign time | hbase.Master.DaemonHadoop | sum | double | Hadoop:service=HBase,name=Master,sub=AssignmentManager.* |
| | | | As- | |
| | | | sign_num_ops | |
| bulk as-sign time | hbase.Master.DaemonHadoop | sum | double | Hadoop:service=HBase,name=Master,sub=AssignmentManager.* |
| | | | BulkA- | |
| | | | s- | |
| | | | sign_num_ops | |
| rit old-est age | hbase.Master.Hadoop | max | long | The age of the longest region in transition.Hadoop:service=HBase,name=Master,sub=AssignmentManager |
| bulk as-sign max time | hbase.Master.Hadoop | max | double | Hadoop:service=HBase,name=Master,sub=AssignmentManager |
| assign max time | hbase.Master.Hadoop | max | double | Hadoop:service=HBase,name=Master,sub=AssignmentManager |
| bulk as-sign min time | hbase.Master.Hadoop | min | double | Hadoop:service=HBase,name=Master,sub=AssignmentManager |

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| Metric | | | | |
| Name | Key | Agg | Type | Description |
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| bulk as- signs | hbase.master.hbase.as-signs | sum | double | Hadoop:service=HBase,name=Master,sub=AssignmentManager |
| incremental time | hbase.regionserver.incremental_time | sum | double | Hadoop:service=HBase,name=RegionServer,sub=Server#ID |
| | | | * | |
| | | | In- cre- ment__mean | |
| slow_puts | hbase.regionserver.slow_puts | sum | double | The number of Puts that took over 1000ms to complete.Hadoop:service=HBase,name=RegionServer,sub=Server#ID |
| get max time | hbase.regionserver.get_max_time | max | double | Hadoop:service=HBase,name=RegionServer,sub=Server#ID |
| append time | hbase.regionserver.append_time | sum | double | Hadoop:service=HBase,name=RegionServer,sub=Server#ID |
| | | | * | |
| | | | Ap- pend__mean | |
| deletes | hbase.regionserver.deletes | sum | double | Hadoop:service=HBase,name=RegionServer,sub=Server#ID |
| replay min time | hbase.regionserver.replay_min_time | min | double | Hadoop:service=HBase,name=RegionServer,sub=Server#ID |
| mutate min time | hbase.regionserver.mutate_min_time | min | double | Hadoop:service=HBase,name=RegionServer,sub=Server#ID |

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| Metric | | | | |
| Name | Key | Agg | Type | Description |
| <hr/> | | | | |
| get time | hbase.1 | Sum | Double | Hadoop:service=HBase,name=RegionServer,sub=Server#C * Get__mean |
| incremental max time | hbase.1 | Max | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#I |
| slow ap- pend | hbase.1 | Sum | Long | slow ap- pend num- ber of Ap- pend that took over 1000ms to com- plete.Hadoop:service=HBase,name=RegionServer,sub=Ser |
| mutate max time | hbase.1 | Max | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#M |
| get min time | hbase.1 | Min | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#C |
| incremental | hbase.1 | Sum | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#I |
| replay max time | hbase.1 | Max | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#I |
| delete time | hbase.1 | Sum | Double | Hadoop:service=HBase,name=RegionServer,sub=Server#I * Delete__mean |

| Metric | | | | |
|--------------------|---------|-----|------------|---|
| Name | Key | Agg | Type | Description |
| slow deletes | hbase.1 | Sum | Deletes | Deletes that took over 1000ms to complete.Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| delete max time | hbase.1 | Max | Deletes | Deletes.Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| append min time | hbase.1 | Min | Appends | Appends.Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| append max time | hbase.1 | Max | Appends | Appends.Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| delete min time | hbase.1 | Min | Deletes | Deletes.Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| mutate min time | hbase.1 | Min | Mutates | Mutates.Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| increment min time | hbase.1 | Min | Increments | Increments.Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| append min time | hbase.1 | Min | Appends | Appends.Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| replay time | hbase.1 | Sum | Replays | Replays.Hadoop:service=HBase,name=RegionServer,sub=Server#1 |
| | | | * | Re-play__mean |

| Metric | | | | |
|------------------------------|---------------|------|------|--|
| Name | Key | Agg | Type | Description |
| slow in- cre- ments | hbase.incr | slow | Long | The slow number of In-crements that took over 1000ms to complete.Hadoop:service=HBase,name=RegionServer,sub=Server#I |
| replay | hbase.replay | slow | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#I |
| gets | hbase.get | slow | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#C |
| slow gets | hbase.get | slow | Long | The number of Gets that took over 1000ms to complete.Hadoop:service=HBase,name=RegionServer,sub=Ser |
| mutate time | hbase.mutate | slow | Long | Hadoop:service=HBase,name=RegionServer,sub=Server#M |
| restore max time | hbase.restore | slow | Long | Hadoop:service=HBase,name=Master,sub=Snapshots#Sna |

| Metric | | | | |
|-------------------|-----------------|--------|-------|--|
| Name | Key | Agg | Type | Description |
| snapshot.time | hbase.Snapshots | DOUBLE | Time | it takes to finish snapshot().Hadoop:service=HBase,name=Master,sub=Snapshots#SnapshotTime_mean |
| snapshot.max time | hbase.Snapshots | LONG | Time | Hadoop:service=HBase,name=Master,sub=Snapshots#SnapshotTime_max |
| clone time | hbase.Snapshots | DOUBLE | Time | it takes to finish cloneSnapshot().Hadoop:service=HBase,name=Master,sub=Snapshots#SnapshotCloneTime_mean |
| snapshot.count | hbase.Snapshots | LONG | Count | Count of snapshot().Hadoop:service=HBase,name=Master,sub=Snapshots#SnapshotCount |

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|------------------------------------|-----------------------------|-----|-------|---|
| Metric | | | | |
| Name | Key | Agg | Type | Description |
| <hr/> | | | | |
| restorehbase.snapshot.longestClone | hbase.snapshot.longestClone | max | Count | of re-storeSnapshot() invocation-tions.Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshots |
| clone min time | hbase.snapshot.longestClone | min | Count | of cloneSnapshot() invocation-tions.Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshots |
| clones | hbase.snapshot.longestClone | max | Count | of cloneSnapshot() invocation-tions.Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshots |
| snapshot min time | hbase.snapshot.longestClone | min | Count | of cloneSnapshot() invocation-tions.Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshots |
| clone max time | hbase.snapshot.longestClone | max | Count | of cloneSnapshot() invocation-tions.Hadoop:service=HBase,name=Master,sub=Snapshots#Snapshots |

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|--|------------------------------|-----|--------|---|
| Metric | | | | |
| Name | Key | Agg | Type | Description |
| <hr/> | | | | |
| restorehbase.snapshot.restore.time | hbase.snapshot.restore.time | sum | Double | Time it takes to finish restoreSnapshot().Hadoop:service=HBase,name=Master,sub=Snapshots#SnapshotRestoreTime_mean |
| restorehbase.snapshot.restore.min time | hbase.snapshot.restore.time | min | Double | Time it takes to finish restoreSnapshot().Hadoop:service=HBase,name=Master,sub=Snapshots#SnapshotRestoreTime_min |
| meta hlog split max size | hbase.master.hlog.split.size | max | Long | Maximum size of HLog split.Hadoop:service=HBase,name=Master,sub=FileSystem#MetaHLogSplitSize_max |
| hlog split size | hbase.master.hlog.split.size | sum | Double | Size of HLog files being split.Hadoop:service=HBase,name=Master,sub=FileSystem#HLogSplitSize_mean |
| hlog split min time | hbase.master.hlog.split.time | min | Double | Minimum time to split HLog files.Hadoop:service=HBase,name=Master,sub=FileSystem#HLogSplitTime_min |

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| Metric | | | | |
| Name | Key | Agg | Type | Description |
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| hlog split max size | hbase.Master.hlogsplitmaxsize | MAX | DOUBLE | Hadoop:service=HBase,name=Master,sub=FileSystem#HLogSplitMaxSize |
| hlog splits | hbase.Master.hlogsplitcount | SUM | DOUBLE | Count of HLog.splitLog() invocations.Hadoop:service=HBase,name=Master,sub=FileSystem#HLogSplitCount |
| meta hlog split time | hbase.Master.hlogsplittime | DOUBLE | DOUBLE | Time it takes to finish split-MetaLog().Hadoop:service=HBase,name=Master,sub=FileSystem#MetaHlogSplitTime_mean |
| meta hlog split max time | hbase.Master.hlogsplittime | MAX | DOUBLE | Hadoop:service=HBase,name=Master,sub=FileSystem#MetaHlogSplitTime_max |

| Metric | | | | |
|--------------------------------------|---------------|-----|---------------|---|
| Name | Key | Agg | Type | Description |
| hlog split time | hbase. Master | sum | logsplittime | |
| | | | | it |
| | | | | takes |
| | | | | to |
| | | | | fin- ish |
| | | | | HLog.splitLog().Hadoop:service=HBase,name=Master,sub=* |
| | | | | HlogSplit- Time_mean |
| hlog split min size | hbase. Master | min | hlogsplitsize | HLog.splitLog().Hadoop:service=HBase,name=Master,sub=FileSystem#H |
| | | | | |
| | | | | |
| meta hlog splits | hbase. Master | sum | hlogmeta | |
| | | | | splits |
| | | | | of |
| | | | | split- Met- |
| | | | | a- Log() in- vo- ca- tions.Hadoop:service=HBase,name=Master,sub=FileSystem |
| meta hlog split min size | hbase. Master | min | hlogmeta | |
| | | | | splits |
| | | | | size |
| | | | | min |
| | | | | HLog.splitLog().Hadoop:service=HBase,name=Master,sub=FileSystem#M |
| meta hlog split min time | hbase. Master | min | hlogmeta | |
| | | | | splits |
| | | | | size |
| | | | | min |
| | | | | HLog.splitLog().Hadoop:service=HBase,name=Master,sub=FileSystem#M |

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|-------------------------------|------------------------|-------|--------|---|
| Metric | | | | |
| Name | Key | Agg | Type | Description |
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| meta hlog splits | hbase:master:hlogmeta | sum | Long | Count of split- Met- a- Log() in- vo- ca- tions.Hadoop:service=HBase,name=Master,sub=FileSystem |
| hlog split max time | hbase:master:hlogsplit | max | Long | Hadoop:service=HBase,name=Master,sub=FileSystem#HLog |
| hlog splits | hbase:master:hlogsplit | count | Long | Count of HLog.splitLog() in- vo- ca- tions.Hadoop:service=HBase,name=Master,sub=FileSystem |
| meta hlog split size | hbase:master:hlogsplit | avg | Double | splits.size of hbase:meta HLog files be- ing split.Hadoop:service=HBase,name=Master,sub=FileSystem * MetaHlogSplit- Size_mean |
| lower limit | hbase:regionserver | avg | Long | Property lower 'hbase.regionserver.global.memstore.lowerLimit' value. |

| Metric | | | | |
|------------------------|--------------------------|-----|------|--|
| Name | Key | Agg | Type | Description |
| static bloom size | hbase.rstatic.bloom.size | Avg | Long | Size of the static bloom filters. Hadoop:service=HBase,name=RegionServer,sub=Server |
| store files | hbase.rstore.files | Avg | Long | Number of Store Files. Hadoop:service=HBase,name=RegionServer,sub=Server |
| store file in-dex size | hbase.rstore.index.size | Avg | Long | Size of in-dexes in store-files on disk. Hadoop:service=HBase,name=RegionServer,sub=Server |
| store file size | hbase.rstore.files.size | Avg | Long | Size of store-files being served. Hadoop:service=HBase,name=RegionServer,sub=Server |
| mem store size | hbase.rmemstore.size | Avg | Long | Size of the mem-store. Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | | | | |
|-----------------------|---|-----|--------|--|
| Name | Key | Agg | Type | Description |
| static index size | hbase.regionserver.staticindexsize | Avg | Long | Size of the static indexes.Hadoop:service=HBase,name=RegionServer,sub=Server |
| upper limit | hbase.regionserver.global.memstore.upperLimit | Max | Long | Upper limit of the memstore.Hadoop:service=HBase,name=RegionServer,sub=Server |
| stores | hbase.regionserver.stores | Avg | Long | Number of Stores.Hadoop:service=HBase,name=RegionServer,sub=Server |
| regions | hbase.regionserver.regs | Avg | Long | Number of regions.Hadoop:service=HBase,name=RegionServer,sub=Server |
| active handlers | hbase.ipc.handler.active | Avg | Long | Number of active rpc handlers.Hadoop:service=HBase,name=IPC,sub=IPC#numActive |
| process call time | hbase.ipc.process.call.time | Sum | Double | Sum of process call time.Hadoop:service=HBase,name=IPC,sub=IPC#ProcessCallTime_num_ops |
| process call min time | hbase.ipc.process.call.time | Min | Double | Min of process call time.Hadoop:service=HBase,name=IPC,sub=IPC#ProcessCallTime_num_ops |

| Metric | | | | |
|-------------------------|-----------------------------------|-----|------|--|
| Name | Key | Agg | Type | Description |
| calls in priority queue | hbase.ipc.queue.length | avg | Long | The size number of currently enqueued priority (internal house-keeping) requests. Hadoop:service=HBase,name=IPC,sub=IPC#numC |
| authorization successes | hbase.ipc.authorization.successes | sum | Long | Number of authorization successes. Hadoop:service=HBase,name=IPC,sub=IPC#autho |
| received bytes | hbase.ipc.bytesReceived | sum | Long | Number of bytes received. Hadoop:service=HBase,name=IPC,sub=IPC#receiv |
| sent bytes | hbase.ipc.bytesSent | sum | Long | Number of bytes sent. Hadoop:service=HBase,name=IPC,sub=IPC#sentByt |

| Metric | | | | |
|----------------------------|-----------------------------------|-----|------|--|
| Name | Key | Agg | Type | Description |
| authorization failures | hbase.ipc.authz.failures | Sum | Long | The number of authorization failures. Hadoop:service=HBase,name=IPC,sub=IPC#authorization failures |
| process call max time | hbase.ipc.processcall.maxtime | Max | Long | The maximum time taken by a process call. Hadoop:service=HBase,name=IPC,sub=IPC#ProcessCallMaxTime |
| calls in replication queue | hbase.ipc.replication.queue.calls | Agg | Long | The number of calls in the replication queue. Hadoop:service=HBase,name=IPC,sub=IPC#numCallsInReplicationQueue |
| process calls | hbase.ipc.processcalls | Sum | Long | The number of process calls. Hadoop:service=HBase,name=IPC,sub=IPC#ProcessCalls |
| calls in general queue | hbase.ipc.queue.calls | Agg | Long | The number of calls in the general queue. Hadoop:service=HBase,name=IPC,sub=IPC#numCallsInGeneralQueue |

| Metric | | | | |
|-------------------------|-----------------------------------|-----|--------|---|
| Name | Key | Agg | Type | Description |
| queue call time | hbase.ipc.queue.call.time | Sum | Double | Hadoop calls service=HBase,name=IPC,sub=IPC#QueueCallTime_num_ops |
| queue call min time | hbase.ipc.queue.call.min.time | Min | Long | Hadoop calls service=HBase,name=IPC,sub=IPC#QueueCallTime_min_ops |
| queue call max time | hbase.ipc.queue.call.max.time | Max | Long | Hadoop calls service=HBase,name=IPC,sub=IPC#QueueCallTime_max_ops |
| queue size | hbase.ipc.queue.size | Avg | Long | Number of bytes in the call queues.Hadoop:service=HBase,name=IPC,sub=IPC#queue_size |
| authentication failures | hbase.rpc.authentication.failures | Sum | Long | Number of authentication failures.Hadoop:service=HBase,name=IPC,sub=IPC#authentication_failures |
| queue calls | hbase.ipc.queue.calls | Sum | Long | Hadoop calls service=HBase,name=IPC,sub=IPC#QueueCallTime_calls |

| Metric | | | | |
|----------------------------------|--------------------|-----|--------------------------|--|
| Name | Key | Agg | Type | Description |
| open con- nec- tions | hbase.ipc | avg | connections | Number of open connections at the RPC layer. Hadoop:service=HBase,name=IPC,sub=IPC#numOpenConnections |
| authentication suc- cesses | hbase.ipc | sum | authentication successes | Number of authentication successes. Hadoop:service=HBase,name=IPC,sub=IPC#authenticationSuccesses |
| total re- quests | hbase.regionserver | sum | requests | Total number of requests this RegionServer has answered. Hadoop:service=HBase,name=RegionServer,sub=Server#totalRequests |
| read re- quests | hbase.regionserver | sum | read requests | Number of read requests. Hadoop:service=HBase,name=RegionServer,sub=Server#readRequests |

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| Metric | | | | |
| Name | Key | Agg | Type | Description |
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| write re-requests | hbase.summary.requests | sum | double | Hadoop:service=HBase,name=RegionServer,sub=Server#v |
| applied ops | hbase.summary.ops.applied | sum | double | Hadoop:service=HBase,name=RegionServer,sub=Replicati |
| applied batches | hbase.summary.batches.applied | sum | double | Hadoop:service=HBase,name=RegionServer,sub=Replicati |
| balance min time | hbase.master.balance.min | min | double | Hadoop:service=HBase,name=Master,sub=Balancer#Bala |
| ops | hbase.master.balance.ops | avg | double | Hadoop:service=HBase,name=Master,sub=Balancer#Bala |
| time | hbase.master.balance.time | sum | double | Hadoop:service=HBase,name=Master,sub=Balancer#Bala |
| | | | * | |
| | | | Bal- | |
| | | | ancer- | |
| | | | Clus- | |
| | | | ter_mean | |
| misc in-vo-cations | hbase.summary.misc | sum | double | Hadoop:service=HBase,name=Master,sub=Balancer#misc |
| balance max time | hbase.master.balance.max | max | double | Hadoop:service=HBase,name=Master,sub=Balancer#Bala |

| Metric | | | | |
|-----------------|---------|-----|-------|--|
| Name | Key | Agg | Type | Description |
| flushed cells | hbase.r | Sum | Long | Number of mob cells flushed to disk. Hadoop:service=HBase,name=RegionServer,sub=Server |
| scan cells size | hbase.r | Sum | Long | Total amount of scanned mob cells, in bytes. Hadoop:service=HBase,name=RegionServer,sub=Server |
| file cache hits | hbase.r | Avg | Float | Percentage of mob file cache hits. Hadoop:service=HBase,name=RegionServer,sub=Server |
| file caches | hbase.r | Avg | Long | Count of cached mob files. Hadoop:service=HBase,name=RegionServer,sub=Server |

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| Metric | | | | |
| Name | Key | Agg | Type | Description |
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| compactmobcells | hbase.mob | Sum | Long | The number of cells moved to mob during compaction. Hadoop:service=HBase,name=RegionServer,sub=Server |
| filecacheaccesses | hbase.mob | Sum | Long | The count of accesses to the mob file cache. Hadoop:service=HBase,name=RegionServer,sub=Server |
| scanmobcells | hbase.mob | Sum | Long | The number of scanned mob cells. Hadoop:service=HBase,name=RegionServer,sub=Server |
| filecachemisses | hbase.mob | Sum | Long | The count of misses to the mob file cache. Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | Name | Key | Agg | Type | Description |
|-------------|-------------|-----|-----|------|--|
| compactness | compactness | mob | Sum | Long | The number of cells moved from mob during compaction. |
| compactness | compactness | mob | Sum | Long | The size of cells move to mob during compaction, in bytes. |

| Metric | | | | |
|-------------------------|-----------|-----|------|--|
| Name | Key | Agg | Type | Description |
| compactmobcellsfromsize | hbase.mob | Sum | Long | The amount of cells moved from mob during compaction, in bytes.Hadoop:service=HBase,name=RegionServer,sub=Server |
| filecacheevictions | hbase.mob | Sum | Long | The number of items evicted from the mob file cache.Hadoop:service=HBase,name=RegionServer,sub=Server |
| flusheshbase.mob | hbase.mob | Sum | Long | The number of the flushes in mob-enabled stores.Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | | | | |
|--------------------|---------|-----|------|--|
| Name | Key | Agg | Type | Description |
| flushed cells size | hbase.r | Sum | Long | The total amount of mob cells flushed to disk, in bytes.Hadoop:service=HBase,name=RegionServer,sub=Ser |
| local files | hbase.r | Avg | Long | The percent of HFiles that are stored on the local hdfs data node.Hadoop:service=HBase,name=RegionServer,sub=Ser |
| hlog files | hbase.r | Avg | Long | The number of write ahead logs not yet archived.Hadoop:service=HBase,name=RegionServer,sub=Ser |

| Metric | | | | |
|--------------------------------------|--|-----|--------|--|
| Name | Key | Agg | Type | Description |
| hlog files size | hbase.regionserver. hlog.size | Avg | Long | Size of all HLog Files.Hadoop:service=HBase,name=RegionServer,sub=Server |
| cluster re- quests | hbase.master. cluster.requests | Sum | Long | Hadoop:service=HBase,name=Master,sub=Server#cluster |
| dead re- gion servers | hbase.master. dead.servers | Avg | Double | Hadoop:service=HBase,name=Master,sub=Server#numDe |
| region servers | hbase.master. region.servers | Avg | Double | Hadoop:service=HBase,name=Master,sub=Server#numRe |
| average load | hbase.master. average.load | Avg | Double | Hadoop:service=HBase,name=Master,sub=Server#average |
| mutatio- n with- out wal | hbase.regionserver. mutations.without.wal | Sum | Long | Number of mu- ta- tions that have been sent by clients with the write ahead log- ging turned off.Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | | | | |
|---------------------------------|------------------|-----|------|--|
| Name | Key | Agg | Type | Description |
| mutatehbase.ops.failed | hbase.operations | sum | Long | Number of Check and Mutate calls that failed the checks.Hadoop:service=HBase,name=RegionServer,sub=Server |
| mutatehbase.ops.passed | hbase.operations | sum | Long | Number of Check and Mutate calls that passed the checks.Hadoop:service=HBase,name=RegionServer,sub=Server |
| mutatehbase.ops.withoutwal.size | hbase.operations | sum | Long | Size of data that has been sent by clients with the write ahead logging turned off.Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | | | | |
|-------------|------------------|-----|-------|---|
| Name | Key | Agg | Type | Description |
| hits | hbase.cache.hits | sum | long | Count of the hit on the block cache.Hadoop:service=HBase,name=RegionServer,sub=Server |
| expresshit% | hbase.cache.hit% | avg | float | The rate per-cent of the time that re-quests with the cache turned on hit the cache.Hadoop:service=HBase,name=RegionServer,sub=Server |
| hit% | hbase.cache.hit% | avg | float | Percent of block cache re-quests that are hits.Hadoop:service=HBase,name=RegionServer,sub=Server |

| Metric | | | | |
|------------------|-----------------------|-----|------|---|
| Name | Key | Agg | Type | Description |
| cache free size | hbase.cache.free.size | Avg | Long | Size of the block cache that is not occupied.Hadoop:service=HBase,name=RegionServer,sub=Server |
| block cache size | hbase.cache.size | Avg | Long | Size of the block cache.Hadoop:service=HBase,name=RegionServer,sub=Server |
| miss | hbase.cache.misses | Sum | Long | Number of re-quests for a block that missed the block cache.Hadoop:service=HBase,name=RegionServer,sub=Server |
| cache count | hbase.cache.count | Avg | Long | Number of block in the block cache.Hadoop:service=HBase,name=RegionServer,sub=Server |

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| Metric | | | | |
| Name | Key | Agg | Type | Description |
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| evictions | hbase.cache.evictions | Count | | Count of the number of blocks evicted from the block cache. Hadoop:service=HBase,name=RegionServer,sub=Server |
| shipped batches | hbase.replication.hadoops shipped | Sum | | HBase,name=RegionServer,sub=Replication |
| shipped ops | hbase.replication.hadoops shipped | Sum | | HBase,name=RegionServer,sub=Replication |
| log ed-its read | hbase.replication.hadoops send | Sum | | HBase,name=RegionServer,sub=Replication |
| log queue | hbase.replication.hadoops | Sum | | HBase,name=RegionServer,sub=Replication |
| shipped bytes | hbase.replication.hadoops shipped | Sum | | HBase,name=RegionServer,sub=Replication |
| log ed-its fil-tered | hbase.replication.hadoops filter | Sum | | HBase,name=RegionServer,sub=Replication |
| log read bytes | hbase.replication.hadoops send | Sum | | HBase,name=RegionServer,sub=Replication |

| Metric | | | | |
|--------|--------------------|-----|------|---|
| Name | Key | Agg | Type | Description |
| hedge | hbase.stores.hedge | Sum | Long | The number of times we started a hedged read and a hedged read won. |
| hedge | hbase.stores.hedge | Sum | Long | The number of times we started a hedged read. |

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| Metric Name | Key | Agg | Type | Description |
|-----------------------|----------------------------|-----|------|-------------|
| stores | hbase.stores | Avg | Long | |
| flushes | hbase.flushes | Sum | Long | |
| compactions | hbase.compactions | Sum | Long | |
| store files | hbase.store.files | Avg | Long | |
| store file index size | hbase.store.index.size | Avg | Long | |
| sync | hbase.fs.sync.latency.max | Max | Long | |
| read | hbase.fs.read.latency.max | Max | Long | |
| write | hbase.fs.write.latency.max | Max | Long | |
| sync | hbase.fs.sync.latency.min | Min | Long | |

| Metric Name | Key | Agg | Type | Description |
|---------------------------|--------------------------------------|-----|--------|-------------|
| read | hbase.fs.read.latency.min | Min | Long | |
| write | hbase.fs.write.latency.min | Min | Long | |
| flush queue | hbase.flushes.queue.size | Avg | Double | |
| max | hbase.memstore.flushes.time.max | Max | Long | |
| min | hbase.flushes.size.min | Min | Long | |
| flushes | hbase.memstore.flushes | Sum | Long | |
| max | hbase.flushes.size.max | Max | Long | |
| memstore size | hbase.memstore.size | Avg | Long | |
| min | hbase.memstore.flushes.time.min | Min | Long | |
| min | hbase.compactions.time.min | Min | Long | |
| max | hbase.compactions.time.max | Max | Long | |
| max | hbase.compactions.size.max | Max | Long | |
| compactions | hbase.compactions | Sum | Long | |
| compaction queue | hbase.compactions.queue.size | Avg | Double | |
| min | hbase.compactions.size.min | Min | Long | |
| cache size | hbase.cache.block.size | Avg | Long | |
| miss count | hbase.cache.block.misses | Sum | Long | |
| cache free | hbase.cache.block.free | Avg | Long | |
| hit count | hbase.cache.block.hits | Sum | Long | |
| block cache count | hbase.cache.block.count | Avg | Long | |
| blockCacheHitRatio | hbase.cache.block.hits.ratio | Avg | Long | |
| evicted count | hbase.cache.block.evictions | Sum | Long | |
| blockCacheHitCachingRatio | hbase.cache.block.caching.hits.ratio | Avg | Long | |
| max | hbase.splits.time.max | Max | Long | |
| splits | hbase.splits | Sum | Long | |
| max | hbase.splits.size.max | Max | Long | |
| min | hbase.splits.size.min | Min | Long | |
| splits | hbase.splits | Sum | Long | |
| regions | hbase.regions | Avg | Long | |