

title: Cassandra Monitoring Integration description: Sematext integration used to capture and report Cassandra metrics, including throughput requests, errors, latency, compaction activity, and more. Use built-in reports and monitoring dashboards to capture and troubleshoot Cassandra issues in real-time by cluster or specific node in production

Integration

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

Metrics

Metric Name Key <i>(Type)</i> <i>(Unit)</i>	Description
sstable size cassandra.sstable.size <i>(long gauge) (bytes)</i>	Disk space used by SSTables belonging to this table
sstables count cassandra.sstable.count <i>(long gauge)</i>	Number of SSTables on disk for this table
bloom false positives cassandra.bloom.falsepositives <i>(long counter)</i>	The number of Bloom filter false positives
bloom false positive ratio cassandra.bloom.falsepositiveratio <i>(double gauge)</i>	The ratio of Bloom filter false positives to total checks
bloom disk space cassandra.bloom.disk.space <i>(long gauge) (bytes)</i>	Disk space used by the Bloom filters
sstables per read cassandra.number.of.sstables.pernread <i>(double gauge)</i>	Number of SSTables are accessed during a read. Includes sstables that undergo bloom-filter checks, even if no data is read from the sstable
local write request cassandra.local.write.requests <i>(long counter)</i>	Local writes update the table's memtable and appends to a commitlog
local write latency to total cassandra.local.write.requests.latency.time <i>(long counter) (ms)</i>	
avg local write latency cassandra.local.write.latency.avg <i>(double gauge) (ms)</i>	
local read request cassandra.local.read.requests <i>(long counter)</i>	Local reads retrieve data from a table's memtable and any necessary SSTables on disk

Metric Name Key <i>(Type)</i> <i>(Unit)</i>	Description
local read latency to- tal cassandra.local.read.requests.latency.time <i>(long counter) (ms)</i>	
avg local read la- tency cassandra.local.read.latency.avg <i>(double gauge) (ms)</i>	
leaving nodes cassandra.cluster.nodes.leaving <i>(long gauge)</i>	
moving nodes cassandra.cluster.nodes.moving <i>(long gauge)</i>	
joining nodes cassandra.cluster.nodes.joining <i>(long gauge)</i>	
live nodes cassandra.cluster.nodes.live <i>(long gauge) (from the perspective of this node)</i>	Count of nodes which are visible and live
unreachable nodes cassandra.cluster.nodes.unreachable <i>(long gauge)</i>	Count of the nodes which this node knows are currently unreachable
write re- quests cassandra.write.requests <i>(long counter)</i>	The number of write requests
write latency to- tal cassandra.write.requests.latency.time <i>(long counter) (ms)</i>	
avg write la- tency cassandra.write.latency.avg <i>(double gauge) (ms)</i>	
read re- quests cassandra.read.requests <i>(long counter)</i>	The number of read requests
read latency to- tal cassandra.read.requests.latency.time <i>(long counter) (ms)</i>	
avg read la- tency cassandra.read.latency.avg <i>(double gauge) (ms)</i>	
read repairs pend- ing cassandra.read.repair.pending <i>(long gauge)</i>	The number of read repair operations that are queued and waiting for system resources in order to run

Metric Name Key (Type) (Unit)	Description
compactions pending cassandra.compaction.pending (long gauge)	The number of compactions that are queued and waiting for system resources in order to run
bytes compacted cassandra.compaction.bytes (long counter) (bytes)	Total number of bytes compacted since server [re]start
compactions completed cassandra.compaction.completed (long counter)	Number of compaction tasks completed
key cache requests cassandra.cache.key.requests (long counter)	The number of key cache requests
key cache hits cassandra.cache.key.hits (long counter)	The number of key cache hits. This will avoid possible disk seeks when finding a partition in an SSTable
row cache requests cassandra.cache.row.requests (long counter)	The number of row cache requests
row cache hits cassandra.cache.row.hits (long counter)	The number of row cache hits
repl. on write pending cassandra.write.replications.pending (long gauge)	When an insert or update to a row is pending, the affected row is replicated to all other nodes that manage a replica for that row
write flushes pending cassandra.write.flushes.pending (long gauge)	Number of Flush Writer(writes memtables to disk) tasks pending
write requests pending cassandra.write.pending (long gauge)	The number of write requests that have arrived into the cluster but are waiting to be handled
write post flushes pending cassandra.write.postflushes.pending (long gauge)	Number of Post Flush(cleans up commit log, memtable is written to disk) tasks pending
read requests pending cassandra.read.requests.pending (long gauge)	The number of read requests that have arrived into the cluster but are waiting to be handled
repair tasks pending cassandra.cluster.tasks.repair.pending (long gauge)	Repair tasks pending, such as handling the peer transfer after the validation compaction
gossip tasks pending cassandra.cluster.tasks.gossip.pending (long gauge)	Number of gossip messages and requests queued and waiting to be sent or received

Metric Name Key <i>(Type)</i> <i>(Unit)</i>	Description
hints handoff pend- ingcassandra.cluster.tasks.handoff.pending <i>(long gauge)</i>	Number of hints that are queued and delivered after a failed node is back online again
internal responses pend- ingcassandra.cluster.tasks.response.internal.pending <i>(long gauge)</i>	Number of pending tasks from internal responses, internal pending and leaving the cluster
migrations pend- ingcassandra.cluster.tasks.migration.pending <i>(long gauge)</i>	Number of pending tasks from system modified the schema
misc tasks pend- ingcassandra.cluster.tasks.misc.pending <i>(long gauge)</i>	Number of pending tasks from independently run operations, such as taking a snapshot or processing the notification of a completed replication
cluster responses pend- ingcassandra.cluster.tasks.response.pending <i>(long gauge)</i>	Number of pending callbacks to execute once a remote node completes