**System Metrics**

This section documents the system metrics that are sent by the Agent. This section includes checks by the network plugin as these are considered more system level checks.

| **Metric Name** | **Dimensions** | **Semantics** |
| --- | --- | --- |
| cpu.idle\_perc |  | Percentage of time the CPU is idle when no I/O requests are in progress |
| cpu.wait\_perc |  | Percentage of time the CPU is idle AND there is at least one I/O request in progress |
| cpu.stolen\_perc |  | Percentage of stolen CPU time, i.e. the time spent in other OS contexts when running in a virtualized environment |
| cpu.system\_perc |  | Percentage of time the CPU is used at the system level |
| cpu.user\_perc |  | Percentage of time the CPU is used at the user level |
| cpu.total\_logical\_cores |  | Total number of logical cores available for an entire node (Includes hyper threading). **NOTE: This is an optional metric that is only sent when send\_rollup\_stats is set to true.** |
| disk.inode\_used\_perc | device, mount\_point | The percentage of inodes that are used on a device |
| disk.space\_used\_perc | device, mount\_point | The percentage of disk space that is being used on a device |
| disk.total\_space\_mb |  | The total amount of disk space aggregated across all the disks on a particular node. **NOTE: This is an optional metric that is only sent when send\_rollup\_stats is set to true.** |
| disk.total\_used\_space\_mb |  | The total amount of used disk space aggregated across all the disks on a particular node. **NOTE: This is an optional metric that is only sent when send\_rollup\_stats is set to true.** |
| io.read\_kbytes\_sec | device | Kbytes/sec read by an io device |
| io.read\_req\_sec | device | Number of read requests/sec to an io device |
| io.read\_time\_sec | device | Amount of read time/sec to an io device |
| io.write\_kbytes\_sec | device | Kbytes/sec written by an io device |
| io.write\_req\_sec | device | Number of write requests/sec to an io device |
| io.write\_time\_sec | device | Amount of write time/sec to an io device |
| load.avg\_1\_min |  | The average system load over a 1 minute period |
| load.avg\_5\_min |  | The average system load over a 5 minute period |
| load.avg\_15\_min |  | The average system load over a 15 minute period |
| mem.free\_mb |  | Megabytes of free memory |
| mem.swap\_free\_perc |  | Percentage of free swap memory that is free |
| mem.swap\_free\_mb |  | Megabytes of free swap memory that is free |
| mem.swap\_total\_mb |  | Megabytes of total physical swap memory |
| mem.swap\_used\_mb |  | Megabytes of total swap memory used |
| mem.total\_mb |  | Total megabytes of memory |
| mem.usable\_mb |  | Total megabytes of usable memory |
| mem.usable\_perc |  | Percentage of total memory that is usable |
| mem.used\_buffers |  | Number of buffers being used by the kernel for block io |
| mem.used\_cached |  | Memory used for the page cache |
| mem.used\_shared |  | Memory shared between separate processes and typically used for inter-process communication |
| net.in\_bytes\_sec | device | Number of network bytes received per second |
| net.out\_bytes\_sec | device | Number of network bytes sent per second |
| net.in\_packets\_sec | device | Number of network packets received per second |
| net.out\_packets\_sec | device | Number of network packets sent per second |
| net.in\_errors\_sec | device | Number of network errors on incoming network traffic per second |
| net.out\_errors\_sec | device | Number of network errors on outgoing network traffic per second |
| net.in\_packets\_dropped\_sec | device | Number of inbound network packets dropped per second |
| net.out\_packets\_dropped\_sec | device | Number of inbound network packets dropped per second |
| monasca.thread\_count | service=monitoring component=monasca-agent | Number of threads that the collector is consuming for this collection run |
| monasca.emit\_time\_sec | service=monitoring component=monasca-agent | Amount of time that the forwarder took to send metrics to the Monasca API. |
| monasca.collection\_time\_sec | service=monitoring component=monasca-agent | Amount of time that the collector took for this collection run |