CCP Understanding Profiler 2.0.1

Understanding Profiling

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A profile describes the behavior of an entity on a network. This feature is typically used by a data scientist and you should coordinate with the data scientist to determine if they need your assistance with customizing the Profiler values.

CCP installs the Profiler which runs as an independent Apache Storm topology. The configuration for the Profiler topology is stored in Apache ZooKeeper at /metron/topology/profiler. These properties also exist in the default installation of CCP at \$METRON_HOME/config/zookeeper/profiler.json. You can change the values on disk and then upload them to ZooKeeper using \$METRON_HOME/bin/zk_load_configs.sh.



Note:

The Profiler can persist any serializable object, not just numeric values.

CCP supports the following profiler properties:

profiler.workersThe number of worker processes to create for the

topology.

profiler.executorsThe number of executors to spawn per component.

profiler.input.topicThe name of the Kafka topic from which to consume

data.

profiler.output.topicThe name of the Kafka topic to which profile data is

written. Only used with profiles that use the triage`

result field](#result).

profiler.period.durationThe duration of each profile period. Define this

value along with profiler.period.duration.units.

profiler.period.duration.unitsThe units used to specify the profile period duration.

Define this value along with profiler.period.duration.

profiler.ttl If a message has not been applied to a Profile in

this period of time, the Profile is forgotten and its resources cleaned up. Define this value along with

profiler.ttl.units.

profiler.ttl.unitsThe units used to specify profiler.ttl.

profiler.hbase.salt.divisorA salt is prepended to the row key to help prevent

hotspotting. This constant is used to generate the sale. Ideally, this constant should be roughly equal to the number of nodes in the Apache HBase

cluster.

profiler.hbase.tableThe name of the HBase table that profiles are

written to.

profiler.hbase.column.familyThe column family used to store profiles.

profiler.hbase.batchThe number of puts written in a single batch.

profiler.hbase.flush.interval.seconds

The maximum number of seconds between batch writes to HBase.