Troubleshooting Guide: Logs and stats to collect for MapR DB get/put Response Slowness

The primary intent of this article is to provide diagnostic tips (collect all required info in one-pass rather than iteratively). This expedites narrowing-down a root cause. This article deals with troubleshooting slowness for application accessing MaprDB tables i.e get/put response.

Dec 22, 2017 · Generic - Issue Resolution

Environment

Any

Symptom

Slowness for Application accessing MaprDB tables i.e get/put response .

This article is intended as a troubleshooting guide when you experience slowness for application accessing MaprDB tables i.e get/put response.

Diagnostics

Slowness for maprdb get/put response can occur due to various reasons.

The most common reason could be but not limited to below reasons:

1. Resource utilization on the node is high i.e CPU utilized 100% or node swapping or Disks are not performing good
2. Get/put operations are getting stuck/pilled-up due to internal maprdb threads
3. Data skewness

Here is the list of stats to be collected.

1. Collect "/opt/mapr/server/mrconfig info threads" every 10 secs in loop
2. Collect "/opt/mapr/server/mrconfig dbinfo threads" every 10 secs in loop
3. Collect "/opt/mapr/bin/guts db:all cpu:none fs:all cache:all " on all fileserver nodes used for maprdb operation.
4. Collect system resource related information like, iostat, vmstat, mpstat and top -H –p <mfs process>
5. Output of below commands :

```
maprcli table info –path <table_path> -json

maprcli table region list –path <table_path> -json

hadoop mfs –ls <table_path>
```

Below is a list of useful logs that can help:

1. /opt/mapr/logs/mfs.log-* from all the DB nodes
2. · System resource related information like, iostat, vmstat, mpstat and top -H –p <mfs process>

3. · Collect /opt/mapr/logs/cldb.log* also from CLDB master (some time the issue related to container or fileserver and also manifest in maprdb)

Root Cause

Depending on the stats and logs collected root cause can be one of below or new issue causing the slowness:

1. Resource utilization on the node is high i.e CPU utilized 100% or node swapping or Disks are not performing good
2. Get/put operations are getting stuck/piled-up due to internal maprdb threads
3. Data skewness

Solutions

There are multiple approaches to effectively address the above general root causes.The (http://causes.The) primary intent of this article is to provide diagnostic tips (collect all required info in one-pass rather than iteratively). This expedites narrowing-down a root cause. At this time, no direct or elaborate solutions are being offered here. However, as we determine common solutions that work for most user set ups, we will document them here.

Technology Group

MapR Core

Article Type

Generic_Issue_Resolution__kav

Article Number

000003094

Article Total View Count

205

Last Published Date

12/22/2017 10:48 PM