

3RD PARTY TOOLS

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Collectd fails with errors: Load plugin "" failed with status 1

Collectd fails to start or fails regularly with errors seen in collect_daemon.log like: plugin_load: Load plugin "java" failed with status 1.

. Generic - Issue Resolution

Environment

MapR 6.0.0
MEP 4.0
mapr-collectd-5.7.2.201711022055-1.x86_64

Symptom

CollectD does not start or fails often with the following errors:

```
[error] plugin_load: Load plugin "mapr_volmetrics" failed with status 1.  
[error] lt_dlopen ("/opt/mapr/collectd/collectd-5.7.2/lib/collectd/mapr_volmetrics.so") failed: file not found. The  
most common cause for this problem is missing dependencies. Use ldd(1) to check the dependencies of the plugin / shared  
object.  
  
[error] plugin_load: Load plugin "write_maprstreams" failed with status 1.  
[error] lt_dlopen ("/opt/mapr/collectd/collectd-5.7.2/lib/collectd/write_maprstreams.so") failed: file not found. The  
most common cause for this problem is missing dependencies. Use ldd(1) to check the dependencies of the plugin / shared  
object.  
  
[error] plugin_load: Load plugin "java" failed with status 1.  
[error] lt_dlopen ("/opt/mapr/collectd/collectd-5.7.2/lib/collectd/http://java.so (http://java.so)") failed: file not  
found. The most common cause for this problem is missing dependencies. Use ldd(1) to check the dependencies of the  
plugin / shared object.
```

Diagnostics

Look for "Load plugin" errors in collectd_daemon.log if collectd fails to start. If lt_dlopen gives "failed: file not found." it is likely because the libjvm cannot be found in the detected Java home.

Root Cause

Java home is not set or the http://libjvm.so (http://libjvm.so) path cannot be found in the Java home automatically detected.

Solutions

1. Find http://libjvm.so (http://libjvm.so). Ex:

```
# find /usr/lib/jvm -name "http://libjvm.so (http://libjvm.so)"  
/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.102-4.b14.e17.x86_64/jre/lib/amd64/server/http://libjvm.so (http://libjvm.so)
```

2. Edit \$MAPR_HOME/collectd/collectd-5.7.2/etc/init.d/collectd
3. Find the section ending with "APP_SCRIPT_DEBUG=0". Ex:

```
# Behaviour knobs  
# CHOOSE BEHAVIOR: Set to fit app  
APP_REQUIRE_JAVA=0  
APP_STARTS_WITH_JAVA=0  
APP_SELF_CONTAINED=1  
APP_RESOLVE_LINK=0  
APP_WARDEN_CONTROLLED=1  
APP_DAEMONIZES=1  
APP_DOES_NOT_MANAGE_PID_FILE=0  
APP_ROTATES_OWN_LOG_FILE=0  
APP_ENABLE_GROUPLEADER=1  
APP_CREATE_MAPR_PID_SYMLINK=1  
APP_SCRIPT_DEBUG=0
```

4. Add the following line where <path to libjvm> is the result from #1:

```
export LD_PRELOAD="<path to libjvm>"
```

5. Save the modified collectd.
6. Restart collectd. Ex:

```
$ maprccli node services nodes `hostname` -name collectd -action restart
```