

Troubleshooting NoClassDefFoundError in Spark PI Job

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Issue	
Environment	When running a Spark PI job, users may encounter errors related to missing class definitions, such as java.lang.NoClassDefFoundError. This KB article addresses a specific instance of such an error and provides steps to resolve it. The customer encountered the following error while attempting to execute a Spark PI job:
Cause	
Resolution	ERROR StatusConsoleListener Could not create plugin of type class org.apache.logging.log4j.core.async.AsyncLoggerConfig for element AsyncLogger: java.lang.NoClassDefFoundError: com/lmax/disruptor/EventHandler

Environment

Apache Spark

Cause

Identify Missing Dependency:

The error suggests a missing class definition related to com.lmax.disruptor.EventHandler. This indicates a missing dependency required by Spark.

Locate Spark Jars Directory:

Spark typically loads its jar files from the Spark Home directory.
This directory is commonly found at /opt/mapr/spark/spark-<version>/jars.

Search for Required Jar:

The error specifically mentions the missing class from the disruptor-<version>.jar. Check whether the disruptor-<version>.jar exists in the Spark jars directory.

Verify Jar Presence:

If the disruptor-<version>.jar is not found in the Spark jars directory, it needs to be added.

Resolution

Move Jar to Correct Location:

 $Move the \ disruptor - < version > , jar \ to \ the \ SPARK_HOME \ directory \ to \ ensure \ it \ is \ accessible \ to \ Spark \ during \ job \ execution.$

Re-run Spark PI Job:

Once Spark is restarted and the disruptor jar is in place, re-run the Spark PI job to confirm resolution.

Verify Error Absence:

Upon successful execution of the job, verify that the NoClassDefFoundError no longer occurs.

