CÀI ĐẶT APACHE HIVE

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- 1. Cài đặt Java
- Đã thực hiện trong các bài tập trước

```
hadoopminhchau@minhchau–master:~$ java –version
openjdk version "11.0.14.1" 2022–02–08
OpenJDK Runtime Environment (build 11.0.14.1+1–Ubuntu–Oubuntu1.21.10)
OpenJDK 64–Bit Server VM (build 11.0.14.1+1–Ubuntu–Oubuntu1.21.10, mixed mode, sharing)
hadoopminhchau@minhchau–master:~$
```

2. Cài đặt Hadoop

Đã thực hiện trong các bài tập trước

```
hadoopminhchau@minhchau-master:~$ start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hadoopminhchau in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
Starting namenodes on [minhchau-master]
Starting datanodes
Starting secondary namenodes [minhchau-master]
Starting resourcemanager
Starting nodemanagers
hadoopminhchau@minhchau-master:~$ jps
2612 Jps
2312 ResourceManager
1834 NameNode
2108 SecondaryNameNode
hadoopminhchau@minhchau-master:~$
```

3. Download và cài đặt Apache Hive

Download Apache Hive 3.1.3

```
$ wget https://dlcdn.apache.org/hive/hive-3.1.3/apache-hive-
3.1.3-src.tar.gz
```

Giải nén và đổi tên thư mục

```
$ tar -xzf apache-hive-3.1.3-bin.tar.gz
$ mv apache-hive-3.1.3-bin hive
```

```
adoopminhchau@minhchau–master:~$ ls
                                                          pig_1650382433801.log
                                                          pig_1650382485427.log
                               id.pig
                                                          ProcessUnits.java
                               passwd
                                                          sample.txt
                                                          test.sh
adoopminhchau@minhchau—master:~$ tar –xzf apache–hive–3.1.3–bin.tar.gz
adoopminhchau@minhchau-master:~$ ls
                                                                                  test.sh
                                                          pig_1650382433801.log
                               id.pig
                                                          pig_1650382485427.log
                                                          ProcessUnits.java
                               passwd
                                                          sample.txt
nadoopminhchau@minhchau—master:~$ mv apache—hive—3.1.3—bin hive
nadoopminhchau@minhchau-master:~$ ls
                                                                                  test.sh
                                                          pig_1650382433801.log
                                                          pig_1650382485427.log
                               id.pig
                                                          ProcessUnits.java
                               passwd
                                                          sample.txt
nadoopminhchau@minhchau–master:~$
```

Cài đặt biến môi trường cho Hive

\$ vim ~/.bashrc

```
export HIVE_HOME=/home/hadoopminhchau/hive
export PATH=$PATH:$HIVE_HOME/bin
export PATH=$PATH:$JAVA_HOME/bin
export CLASSPATH=$CLASSPATH:/home/hadoopminhchau/hadoop/lib/*:.
export CLASSPATH=$CLASSPATH:/home/hadoopminhchau/hive/lib/*:.
```

Cấu hình Hive

Tao file hive-env.sh từ file mẫu và chỉnh lai nôi dung

- \$ cd hive/conf
- \$ cp hive-env.sh.template hive-env.sh

```
hadoopminhchau@minhchau–master:~$ cd hive/conf/
hadoopminhchau@minhchau–master:~/hive/conf$ ls
beeline–log4j2.properties.template
                                         ivysettings.xml
                                         llap-cli-log4j2.properties.template
hive–default.xml.template
hive–env.sh.template
                                         llap-daemon-log4j2.properties.template
hive—exec—log4j2.properties.template parquet—logging.properties
hive–log4j2.properties.template
hadoopminhchau@minhchau-master:~/hive/conf$ cp hive-env.sh.template hive-env.sh
hadoopminhchau@minhchau—master:~/hive/conf$ ls
                                         hive-log4j2.properties.template
beeline–log4j2.properties.template
                                         ivysettings.xml
llap-cli-log4j2.properties.template
hive-default.xml.template
hive-env.sh
hive–env.sh.template
                                         llap-daemon-log4j2.properties.template
hive—exec—log4j2.properties.template parquet—logging.properties
hadoopminhchau@minhchau—master:~/hive/conf$
```

export HADOOP_HOME=/home/hadoopminhchau/hadoop

4. Download và cài đặt Apache Derby

Download Apache Derby 10.15.2

\$ wget https://dlcdn.apache.org//db/derby/db-derby-10.15.2.0/db-derby-10.15.2.0-src.tar.gz

Giải nén và đổi tên thư mục

\$ tar -xzf db-derby-10.15.2.0-bin.tar.gz

\$ mv db-derby-10.15.2.0-bin derby

```
hadoopminhchau@minhchau–master:~$ ls
                                                 pig_1650382433801.log
                                                 pig_1650382485427.log
                                   id.pig
                                                 ProcessUnits.java
                                                 sample.txt
                                   passwd
                                                  test.sh
adoopminhchau@minhchau–master:~$ tar –xzf db–derby–10.15.2.0–bin.tar.gz
nadoopminhchau@minhchau—master:~$ ls
                                                                                              test.sh
                                                                   pig_1650382433801.log
                                                                   pig_1650382485427.log
                                   id.pig
                                                                   ProcessUnits.java
nadoop—core—1.2.1.jar passwd sample.
nadoopminhchau@minhchau—master:~$ mv db—derby—10.15.2.0—bin derby
nadoopminhchau@minhchau—master:~$ ls
                                                                   sample.txt
                                                                                              test.sh
                                                                   pig_1650382433801.log
                                                                   pig_1650382485427.log
                                   id.pig
                                                                   ProcessUnits.java
                                                                   sample.txt
                                   passwd
nadoopminhchau@minhchau–master:~$
```

Cài đặt biến môi trường cho Derby

\$ vim ~/.bashrc

```
export DERBY_HOME=/home/hadoopminhchau/derby
export PATH=$PATH:$CERBY_HOME/bin
export CLASSPATH=$CLASSPATH:$CERBY_HOME/lib/derby.jar:$CERBY_HOME/lib/derbytools.jar
```

Tạo thư mục để lưu Metastore

\$ mkdir \$DERBY HOME/data

```
hadoopminhchau@minhchau-master:~$ ls

apache-hive-3.1.3-bin.tar.gz hadoop-core-1.2.1.jar.zip pig test.sh

db-derby-10.15.2.0-bin.tar.gz hive pig-0.17.0.tar.gz tmp

derby id.out pig_1650382433801.log pig_1650382485427.log units

hadoop id.pig pig_1650382485427.log units.jar

hadoop-core-1.2.1.jar passwd sample.txt

hadoopminhchau@minhchau-master:~$ mkdir $DERBY_HOME/data

hadoopminhchau@minhchau-master:~$ cd derby/

hadoopminhchau@minhchau-master:~/derby$ ls

bin data demo docs index.html javadoc KEYS lib LICENSE NOTICE RELEASE-NOTES.html test

hadoopminhchau@minhchau-master:~/derby$
```

5. Cấu hình Metastore cho Hive

- Metastore như là một kho trung tâm của Hive metadata, lưu trữ metadata cho các tables của Hive (như schema hay vị trí được lưu trữ).

Tạo và cấu hình hive-site.xml từ file mẫu

- \$ cd hive/conf
- \$ cp hive-default.xml.template hive-site.xml

```
hadoopminhchau@minhchau–master:~/hive/conf$ ls
                                                      hive-log4j2.properties.template
beeline–log4j2.properties.template
hive–default.xml.template
                                                      ivysettings.xml
hive-env.sh
                                                      llap-cli-log4j2.properties.template
hive-env.sh.template llap-daemon-log4j2.properties.template
hive-exec-log4j2.properties.template
hive-exec-log4j2.properties.template parquet-logging.properties
hadoopminhchau@minhchau-master:~/hive/conf$ cp hive-default.xml.template hive-site.xml
hadoopminhchau@minhchau-master:~/hive/conf$ ls
                                                      hive-site.xml
beeline–log4j2.properties.template
hive-default.xml.template
                                                      ivysettings.xml
                                                      llap-cli-log4j2.properties.template
llap-daemon-log4j2.properties.template
hive-env.sh
hive–env.sh.template
hive—exec—log4j2.properties.template parquet—logging.properties
hive–log4j2.properties.template
hadoopminhchau@minhchau–master:~/hive/conf$
```

Thêm vào nội dung sau:

```
cproperty>
    <name>system:java.io.tmpdir
    <value>/tmp/hive/java</value>
  </property>
  property>
    <name>system:user.name
    <value>${user.name}</value>
</property>
cproperty>
   <name>javax.jdo.option.ConnectionURL</name>
   <value>jdbc:derby://minhchau-
master:1527/metastore db;create=true </value>
   <description>JDBC connect string for a JDBC metastore
</description>
</property>
Tao file jpox.properties
$ vim jpox.properties
```

```
hadoopminhchau@minhchau—master:~/hive/conf$ ls
beeline—log4j2.properties.template hive—site.xml
hive—default.xml.template ivysettings.xml
hive—env.sh llap—cli—log4j2.properties.template
hive—env.sh.template llap—daemon—log4j2.properties.template
hive—exec—log4j2.properties.template
hive—log4j2.properties.template
hive—log4j2.properties.template
hadoopminhchau@minhchau—master:~/hive/conf$ vim jpox.properties
```

Thêm nội dung sau:

```
javax.jdo.PersistenceManagerFactoryClass =
org.jpox.PersistenceManagerFactoryImpl
org.jpox.autoCreateSchema = false
org.jpox.validateTables = false
org.jpox.validateColumns = false
org.jpox.validateConstraints = false
org.jpox.storeManagerType = rdbms
org.jpox.autoCreateSchema = true
org.jpox.autoStartMechanismMode = checked
org.jpox.transactionIsolation = read committed
javax.jdo.option.DetachAllOnCommit = true
javax.jdo.option.NontransactionalRead = true
javax.jdo.option.ConnectionDriverName =
org.apache.derby.jdbc.ClientDriver
javax.jdo.option.ConnectionURL = jdbc:derby://minhchau-
master:1527/metastore db;create = true
javax.jdo.option.ConnectionUserName = hadoopminhchau
javax.jdo.option.ConnectionPassword = hadoopminhchau
```

```
<u>ja</u>vax.jdo.PersistenceManagerFactoryClass =
org.jpox.PersistenceManagerFactoryImpl
org.jpox.autoCreateSchema = false
org.jpox.validateTables = false
org.jpox.validateColumns = false
org.jpox.validateConstraints = false
org.jpox.storeManagerType = rdbms
org.jpox.autoCreateSchema = true
org.jpox.autoStartMechanismMode = checked
org.jpox.transactionIsolation = read_committed
javax.jdo.option.DetachAllOnCommit = true
javax.jdo.option.NontransactionalRead = true
javax.jdo.option.ConnectionDriverName = org.apache.derby.jdbc.ClientDriver
javax.jdo.option.ConnectionURL = jdbc:derby://minhchau-master:1527/metastore_db;create = true
javax.jdo.option.ConnectionUserName = hadoopminhchau
javax.jdo.option.ConnectionPassword = hadoopminhchau
```

Kiểm tra Hive

- Trước khi chạy Hive, chúng ta phải tạo một thư mục /tmp và thư mục Hive riêng trong HDFS. Ở đây chúng ta sẽ tạo thư mục /minhchau/hive/warehouse

```
$ hdfs dfs -mkdir /tmp

$ hdfs dfs -mkdir /minhchau

$ hdfs dfs -mkdir /minhchau/hive

$ hdfs dfs -mkdir /minhchau/hive/warehouse

$ hdfs dfs -chmod g+w /tmp

$ hdfs dfs -chmod g+w /minhchau/hive/warehouse

hadoopminhchau@minhchau-master:~$ hdfs dfs -mkdir /tmp
hadoopminhchau@minhchau-master:~$ hdfs dfs -mkdir /minhchau
hadoopminhchau@minhchau-master:~$ hdfs dfs -mkdir /minhchau/hive
hadoopminhchau@minhchau-master:~$ hdfs dfs -mkdir /minhchau/hive/warehouse
hadoopminhchau@minhchau-master:~$ hdfs dfs -chmod g+w /tmp
hadoopminhchau@minhchau-master:~$ hdfs dfs -chmod g+w /minhchau/hive/warehouse
hadoopminhchau@minhchau-master:~$ hdfs dfs -chmod g+w /minhchau/hive/warehouse
hadoopminhchau@minhchau-master:~$
```

Thưc thi Hive

```
hadoopminhchau@minhchau–master:~$ hive
Hive Session ID = e9d7b811–e43d–4d97–a0db–082a6d1e91e5
Logging initialized using configuration in jar:file:/home/hadoopminhchau/hive/lib/hive–common–3.1.
jar!/hive–log4j2.properties Async: true
Hive–on–MR is deprecated in Hive 2 and may not be available in the future versions. Consider using
different execution engine (i.e. spark, tez) or using Hive 1.X releases.
hive>
```

Show toàn bộ database trong Hive

```
$ show tables;
```

Nếu báo lỗi "unable to instantiate org.apache.hadoop.hive.ql.metadata.sessionhivemetastoreclient" thì thực hiện các thao tác sau:

```
$ rm -rf metastore_db
$ schematool -dbType derby -initSchema
$ hive
```

Nếu báo lỗi java.lang.ClassCastException thì chuyển sang Java 8 rồi chạy lại Hive.

```
Initialization script completed schemaTool completed hadoopminhchau@minhchau—master:~$ hive Hive Session ID = cf397e17–93c2–4daf–9fcc–2777816e9eb0

Logging initialized using configuration in jar:file:/home/hadoopminhchau/hive/lib/hive–common–3.1 jar!/hive–log4j2.properties Async: true Hive–on–MR is deprecated in Hive 2 and may not be available in the future versions. Consider usir different execution engine (i.e. spark, tez) or using Hive 1.X releases. Hive Session ID = d72bd35b–9f35–48c9–96b3–3ca692b0e7b0 hive> show tables;
OK
Time taken: 0.467 seconds hive>
```

6. Xử lý lỗi ký tự thừa

Nếu báo lỗi như bên dưới thì vào file hive-site.xml xóa các ký tự trong dòng cột tương ứng

```
character entity: expansion character (code 0x8
 at [row,col,system—id]: [3223,96, "file:/home/hadoopminhchau/hive/conf/hive–site.xml"]
at org.apache.hadoop.conf.Configuration.loadResource(Configuration.java:3092)
at org.apache.hadoop.conf.Configuration.loadResources(Configuration.java:3041)
           at org.apache.hadoop.conf.Configuration.loadProps(Configuration.java:2914)
           at org.apache.hadoop.conf.Configuration.addResourceObject(Configuration.java:1034)
          at org.apache.hadoop.conf.Configuration.addResource(Configuration.java:939)
at org.apache.hadoop.hive.conf.HiveConf.initialize(HiveConf.java:5154)
at org.apache.hadoop.hive.conf.HiveConf.

at org.apache.hadoop.hive.conf.HiveConf.
(HiveConf.java:5102)

at org.apache.hadoop.hive.common.LogUtils.initHiveLog4jCommon(LogUtils.java:97)

           at org.apache.hadoop.hive.common.LogUtils.initHiveLog4j(LogUtils.java:81)
          at org.apache.hadoop.hive.cli.CliDriver.run(CliDriver.java:699)
at org.apache.hadoop.hive.cli.CliDriver.main(CliDriver.java:683)
at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invokeO(Native Method)
           at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorIm
ava:62)
           at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAc
orImpl.java:43)
           at java.base/java.lang.reflect.Method.invoke(Method.java:566)
           at org.apache.hadoop.util.RunJar.run(RunJar.java:323)
           at org.apache.hadoop.util.RunJar.main(RunJar.java:236)
Caused by: com.ctc.wstx.exc.WstxParsingException: Illegal character entity: expansion character
 at [row,col,system—id]: [3223,96,"file:/home/hadoopminhchau/hive/conf/hive—site.xml"]
at com.ctc.wstx.sr.StreamScanner.constructWfcException(StreamScanner.java:634)
           at com.ctc.wstx.sr.StreamScanner.throwParseError(StreamScanner.java:504)
           at com.ctc.wstx.sr.StreamScanner.reportIllegalChar(StreamScanner.java:2469)
           at com.ctc.wstx.sr.StreamScanner.validateChar(StreamScanner.java:2416)
           at com.ctc.wstx.sr.StreamScanner.resolveCharEnt(StreamScanner.java:2382)
           at com.ctc.wstx.sr.StreamScanner.fullyResolveEntity(StreamScanner.java:1528)
          at com.ctc.wstx.sr.BasicStreamReader.nextFromTree(BasicStreamReader.java:2818) at com.ctc.wstx.sr.BasicStreamReader.next(BasicStreamReader.java:1121)
           at org.apache.hadoop.conf.Configuration$Parser.parseNext(Configuration.java:3396)
           at org.apache.hadoop.conf.Configuration$Parser.parse(Configuration.java:3182)
           at org.apache.hadoop.conf.Configuration.loadResource(Configuration.java:3075)
... 16 more
hadoopminhchau@minhchau–master:~$
```

\$ vim hive/conf/hive-site.xml

```
</property>
 cproperty>
   <name>hive.txn.xlock.iow</name>
   <value>true</value>
   <description>
     Ensures commands with OVERWRITE (such as INSERT OVERWRITE) acquire Exclusive locks for 8#8 tran
actional tables. This ensures that inserts (w∕o overwrite) running concurrently
     are not hidden by the INSERT OVERWRITE.
   </description>
 </property>
 cproperty>
   <name>hive.txn.timeout</name>
   <value>300s</value>
   <description>
     Expects a time value with unit (d/day, h/hour, m/min, s/sec, ms/msec, us/usec, ns/nsec), which
is sec if not specified.
     time after which transactions are declared aborted if the client has not sent a heartbeat.
   </description>
 </property>
 property>
   <name>hive.txn.heartbeat.threadpool.size</name>
   <value>5</value>
   <description>The number of threads to use for heartbeating. For Hive CLI, 1 is enough. For HiveS
erver2, we need a few</description>
 </property>
 cproperty>
   <name>hive.txn.manager.dump.lock.state.on.acquire.timeout
   <value>false</value>
   <description>Set this to true so that when attempt to acquire a lock on resource times out, the
current state of the lock manager is dumped to log file.  This is for debugging.  See also hive.lock
.numretries and hive.lock.sleep.between.retries.</description>
 </property>
 property>
   <name>hive.max.open.txns</name>
   <value>100000</value>
   <description>
                                                                                  3223,96
                                                                                                46%
```

xóa các ký tự

```
<description>
```

Ensures commands with OVERWRITE (such as INSERT OVERWRITE) acquire Exclusive locks for trans tional tables. This ensures that inserts (w/o overwrite) running concurrently are not hidden by the INSERT OVERWRITE.

7. Xử lý lỗi trùng thư viện SLF4J

Nếu báo lỗi như bên dưới thì che hoặc gỡ bỏ thư viện trùng đi

```
hadoopminhchau@minhchau–master:~$ hive
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/hadoopminhchau/hive/lib/log4j-slf4j-impl-2.17.1.jar!/org/slf
4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/hadoopminhchau/hadoop/share/hadoop/common/lib/slf4j-log4j12–
1.7.30.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]
Hive Session ID = 72497183–974c–404b–9ffb–48d4c7e0e8a8
Exception in thread "main" java.lang.ClassCastException: class jdk.internal.loader.ClassLoaders$AppC
lassLoader cannot be cast to class java.net.URLClassLoader (jdk.internal.loader.ClassLoaders$AppClas sLoader and java.net.URLClassLoader are in module java.base of loader 'bootstrap')
at org.apache.hadoop.hive.ql.session.SessionState.<init>(SessionState.java:413)
             at org.apache.hadoop.hive.ql.session.SessionState.<init>(SessionState.java:389)
             at org.apache.hadoop.hive.cli.CliSessionState.<init>(CliSessionState.java:60) at org.apache.hadoop.hive.cli.CliDriver.run(CliDriver.java:705)
             at org.apache.hadoop.hive.cli.CliDriver.main(CliDriver.java:683)
at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invokeO(Native Method)
             at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.j
ava:62)
             at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccess
orImpl.java:43)
             at java.base/java.lang.reflect.Method.invoke(Method.java:566)
at org.apache.hadoop.util.RunJar.run(RunJar.java:323)
             at org.apache.hadoop.util.RunJar.main(RunJar.java:236)
hadoopminhchau@minhchau-master:~$ _
```

Che thư viện SLF4J trong /hive/lib, sau này khi cần sử dụng thì gỡ ra

hadoopminhchau@minhchau–master:~\$ cd hive/lib/ hadoopminhchau@minhchau–master:~/hive/lib\$ ls_

```
hive-jdbc-handler-3.1.3.jar
hive-kryo-registratur-3.1.3.jar
hive-lap-client-3.1.3.jar
hive-lap-common-3.1.3.jar
hive-lap-common-3.1.3.jar
hive-lap-common-3.1.3.jar
hive-lap-common-3.1.3.jar
hive-lap-common-3.1.3.jar
hive-lap-common-3.1.3.jar
hive-lap-server-3.1.3.jar
hive-serve-3.1.3.jar
hive-serve-3.1.3.jar
hive-serve-3.1.3.jar
hive-serve-3.1.3.jar
hive-service-3.1.3.jar
hive-service-3.1.3.jar
hive-service-1.3.jar
hive-shims-0.23-3.1.3.jar
hive-shims-0.23-3.1.3.jar
hive-shims-0.23-3.1.3.jar
hive-shims-0.31-3.jar
hive-shims-ommon-3.1.3.jar
hive-shims-cheduler-3.1.3.jar
hive-spark-client-3.1.3.jar
hive-spark-client-3.1.3.jar
hive-storage-api-2.7.0.jar
hive-streaming-3.1.3.jar
hive-streaming-3.1.3.jar
hive-streaming-3.1.3.jar
hive-streaming-3.1.3.jar
hive-streaming-3.1.3.jar
hive-tstutils-3.1.3.jar
hive-tstutils-3.1.3.
```



```
hadoopminhchau@minhchau-master:~$ hive
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/hadoopminhchau/hive/lib/log4j–slf4j–impl–2.17.1.jar!/org/slf
4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/hadoopminhchau/hadoop/share/hadoop/common/lib/slf4j-log4j12-
1.7.30.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation. SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory] Hive Session ID = 07a2451e-ccd4-4322-88c5-168b6fea7a23
Exception in thread "main" java.lang.ClassCastException: class jdk.internal.loader.ClassLoaders$AppC lassLoader cannot be cast to class java.net.URLClassLoader (jdk.internal.loader.ClassLoaders$AppClas sLoader and java.net.URLClassLoader are in module java.base of loader 'bootstrap')
           at org.apache.hadoop.hive.ql.session.SessionState.<init>(SessionState.java:413)
           at org.apache.hadoop.hive.ql.session.SessionState.<init>(SessionState.java:389)
           at org.apache.hadoop.hive.cli.CliSessionState.<init>(CliSessionState.java:60) at org.apache.hadoop.hive.cli.CliDriver.run(CliDriver.java:705)
           at org.apache.hadoop.hive.cli.CliDriver.main(CliDriver.java:683)
           at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invokeO(Native Method)
           at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.j
ava:62)
           at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccess
orImpl.java:43)
           at java.base/java.lang.reflect.Method.invoke(Method.java:566)
at org.apache.hadoop.util.RunJar.run(RunJar.java:323)
           at org.apache.hadoop.util.RunJar.main(RunJar.java:236)
hadoopminhchau@minhchau-master:~$
```