

**Working with Pig requires:**

**-> Starting Daemons**

**-> Launching Pig**

**-- in mapreduce mode, or in local mode**

**-- using grunt shell or using script files**

**<<<<<<----- Start all Daemons ----->>>>>>**

**Step 1: Open terminal and check, which daemons are running by using "jps" command**

```
[acadgild@localhost ~]$ jps
2769 Jps
```

**Only one daemon is running, so start all daemons**

**Step 2: cd to /usr/local/hadoop-2.6.0/sbin using following command**

```
[acadgild@localhost ~]$ cd /$HADOOP_HOME/sbin
```

**Step 3: Check present working directory**

```
[acadgild@localhost sbin]$ pwd
/usr/local/hadoop-2.6.0/sbin
```

**Step 4: Now start all Daemons using following command**

```
[acadgild@localhost ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-
yarn.sh
17/08/12 15:35:12 WARN util.NativeCodeLoader: Unable to load
native-hadoop library for your platform... using builtin-java
classes where applicable
Starting namenodes on [localhost]
localhost: starting namenode, logging to
/usr/local/hadoop-2.6.0/logs/hadoop-acadgild-namenode-
localhost.localdomain.out
localhost: starting datanode, logging to
/usr/local/hadoop-2.6.0/logs/hadoop-acadgild-datanode-
localhost.localdomain.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to
/usr/local/hadoop-2.6.0/logs/hadoop-acadgild-
secondarynamenode-localhost.localdomain.out
17/08/12 15:36:06 WARN util.NativeCodeLoader: Unable to load
native-hadoop library for your platform... using builtin-java
classes where applicable
starting yarn daemons
starting resourcemanager, logging to
/usr/local/hadoop-2.6.0/logs/yarn-acadgild-resourcemanager-
localhost.localdomain.out
localhost: starting nodemanager, logging to
/usr/local/hadoop-2.6.0/logs/yarn-acadgild-nodemanager-
```

localhost.localdomain.out

**Step 5: Start historyserver in order to work with pig in mapreduce mode using following command**

```
[acadgild@localhost sbin]$ mr-jobhistory-daemon.sh start
historyserver
starting historyserver, logging to
/usr/local/hadoop-2.6.0/logs/mapred-acadgild-historyserver-
localhost.localdomain.out
```

**Step 6: Check using jps whether required Daemons have started running or not**

```
[acadgild@localhost ~]$ jps
4774 NameNode
4871 DataNode
5209 ResourceManager
5035 SecondaryNameNode
3564 JobHistoryServer
5341 Jps
5311 NodeManager
All Daemons are running
```

**<<<<<<<---- Launch Pig in MapReduce mode ---->>>>>>>**

**Step 1: Before launching pig in mapreduce mode, start all Daemons and historyserver as specified above**

**Step 2: To launch pig in mapreduce mode and to work in "grunt shell", type following command**

```
[acadgild@localhost ~]$ pig -x mapreduce
2017-08-12 15:37:20,339 INFO [main] pig.ExecTypeProvider:
Trying ExecType : LOCAL
2017-08-12 15:37:20,349 INFO [main] pig.ExecTypeProvider:
Trying ExecType : MAPREDUCE
2017-08-12 15:37:20,350 INFO [main] pig.ExecTypeProvider:
Picked MAPREDUCE as the ExecType
2017-08-12 15:37:20,586 [main] INFO org.apache.pig.Main -
Apache Pig version 0.14.0 (r1640057) compiled Nov 16 2014,
18:02:05
2017-08-12 15:37:20,586 [main] INFO org.apache.pig.Main -
Logging error messages to: /home/acadgild/pig_
1502532440584.log
2017-08-12 15:37:20,712 [main] INFO
org.apache.pig.impl.util.Utils - Default bootup file
/home/acadgild/.pigbootup not found
2017-08-12 15:37:22,504 [main] INFO
org.apache.hadoop.conf.Configuration.deprecation -
mapred.job.tracker is deprecated. Instead, use
mapreduce.jobtracker.address
2017-08-12 15:37:22,505 [main] INFO
org.apache.hadoop.conf.Configuration.deprecation -
fs.default.name is deprecated. Instead, use fs.defaultFS
```

```
2017-08-12 15:37:22,505 [main] INFO
org.apache.pig.backend.hadoop.executionengine.HExecutionEngine
- Connecting to hadoop file system at: hdfs://localhost:9000
2017-08-12 15:37:22,527 [main] INFO
org.apache.hadoop.conf.Configuration.deprecation -
mapred.used.genericoptionsparser is deprecated. Instead, use
mapreduce.client.genericoptionsparser.used
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/local/hbase/lib/slf4j-
log4j12-1.6.4.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in
[jar:file:/usr/local/hadoop-2.6.0/share/hadoop/common/lib/slf4
j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple\_bindings
for an explanation.
2017-08-12 15:37:23,697 [main] WARN
org.apache.hadoop.util.NativeCodeLoader - Unable to load
native-hadoop library for your platform... using builtin-java
classes where applicable
2017-08-12 15:37:25,410 [main] INFO
org.apache.hadoop.conf.Configuration.deprecation -
fs.default.name is deprecated. Instead, use fs.defaultFS
grunt>
Now we are in grunt shell
```