

1. Basic Unix Commands

ls --- lists your files

ls -l --- lists your files in 'long format', which contains lots of useful information, e.g. the exact size of the file, who owns the file and who has the right to look at it, and when it was last modified.

ls -a --- lists all files, including the ones whose filenames begin in a dot, which you do not always want to see.

mkdir *dirname* --- make a new directory

cd *dirname* --- change directory

ff --- find files anywhere on the system.

grep *string filename(s)* --- looks for the string in the files.

2. Commands used in VM to install and screenshots

- **sudo service sshd start** : To run all the Hadoop daemons without password authentication, we need start ssh server
- **start-all.sh** : start all the daemons



```
acadgild@localhost: ~/Desktop
File Edit View Search Terminal Help
otup file /home/acadgild/.pigbootup not found
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/acadgild/install/hbase/hbase-1.2.6/lib/slf4j-log4j12-1.7.5.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.slf4j.impl.Log4jLoggerFactory]
2018-10-14 00:02:54,992 [main] WARN org.apache.hadoop.util.NativeCodeLoader - Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
2018-10-14 00:02:55,106 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapred.job.tracker is deprecated. Instead, use mapreduce.jobtracker.address
2018-10-14 00:02:55,106 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
2018-10-14 00:02:55,106 [main] INFO org.apache.pig.backend.hadoop.executionengine.HExecutionEngine - Connecting to hadoop file system at: hdfs://localhost:8020
2018-10-14 00:02:56,785 [main] INFO org.apache.pig.PigServer - Pig Script ID for the session: PIG-default-bb4e5186-4cb4-429a-bd1a-543692a8fa38
2018-10-14 00:02:56,785 [main] WARN org.apache.pig.PigServer - ATS is disabled since yarn.timeline-service.enabled set to false
grunt>
```

- **mr-jobhistory-daemon.sh start historyserver** : Start historyserver
- **pig** : start pig in hdfs mode

```
acadgild@localhost:~/Desktop
File Edit View Search Terminal Help
otup file /home/acadgild/.pigbootup not found
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/acadgild/install/hbase/hbase-1.2.6/lib/slf4j-log4j12-1.7.5.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.slf4j.impl.Log4jLoggerFactory]
2018-10-14 00:02:54,992 [main] WARN org.apache.hadoop.util.NativeCodeLoader - Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
2018-10-14 00:02:55,106 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapred.job.tracker is deprecated. Instead, use mapreduce.jobtracker.address
2018-10-14 00:02:55,106 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
2018-10-14 00:02:55,106 [main] INFO org.apache.pig.backend.hadoop.executionengine.HExecutionEngine - Connecting to hadoop file system at: hdfs://localhost:8020
2018-10-14 00:02:56,785 [main] INFO org.apache.pig.PigServer - Pig Script ID for the session: PIG-default-bb4e5186-4cb4-429a-bd1a-543692a8fa38
2018-10-14 00:02:56,785 [main] WARN org.apache.pig.PigServer - ATS is disabled since yarn.timeline-service.enabled set to false
grunt>
```

- hive : to start mysql server in this vm

```
acadgild@localhost:~/Desktop
File Edit View Search Terminal Help
[acadgild@localhost Desktop]$ sudo service mysqld start
[sudo] password for acadgild:
Starting mysqld: [ OK ]
[acadgild@localhost Desktop]$ hive
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/log4j-slf4j-impl-2.6.2.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4j12-1.7.5.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]

Logging initialized using configuration in jar:file:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/hive-common-2.3.2.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 a different execution engine (i.e. spark, tez) or using Hive 1.X releases.
hive>
```

- jps : to check java processors running

```
acadgild@localhost:~/Desktop
File Edit View Search Terminal Help
[acadgild@localhost Desktop]$ start-hbase.sh
localhost: starting zookeeper, logging to /home/acadgild/install/hbase/hbase-1.2.6/logs/hbase-acadgild-zookeeper-localhost.localdomain.out
starting master, logging to /home/acadgild/install/hbase/hbase-1.2.6/logs/hbase-acadgild-master-localhost.localdomain.out
starting regionserver, logging to /home/acadgild/install/hbase/hbase-1.2.6/logs/hbase-acadgild-1-regionserver-localhost.localdomain.out
[acadgild@localhost Desktop]$ jps
3619 NodeManager
3988 JobHistoryServer
4198 RunJar
3254 DataNode
4022 RunJar
3127 NameNode
4760 HRegionServer
4651 HMaster
3517 ResourceManager
4879 Jps
4559 HQuorumPeer
[acadgild@localhost Desktop]$
```

