

Session 1: BIG DATA & HADOOP –INTRODUCTION & CASE STUDIES

Assignment 1

Start-all.sh command is used to Start all deamons

```
[acadgild@localhost ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/10/13 20:04:56 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Starting namenodes on [localhost]
localhost: namenode running as process 9728. Stop it first.
localhost: datanode running as process 9828. Stop it first.
Starting secondary namenodes [0.0.0.0]
0.0.0.0: secondarynamenode running as process 10044. Stop it first.
18/10/13 20:05:04 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
starting yarn daemons
resourceanager running as process 10188. Stop it first.
localhost: nodemanager running as process 10290. Stop it first.
[acadgild@localhost ~]$
```

Jps command is used for verifying that which all daemons are in running state.

```
[acadgild@localhost ~]$ jps
9728 NameNode
10290 NodeManager
9828 DataNode
17163 Jps
10044 SecondaryNameNode
10188 ResourceManager
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

Unix Command Examples

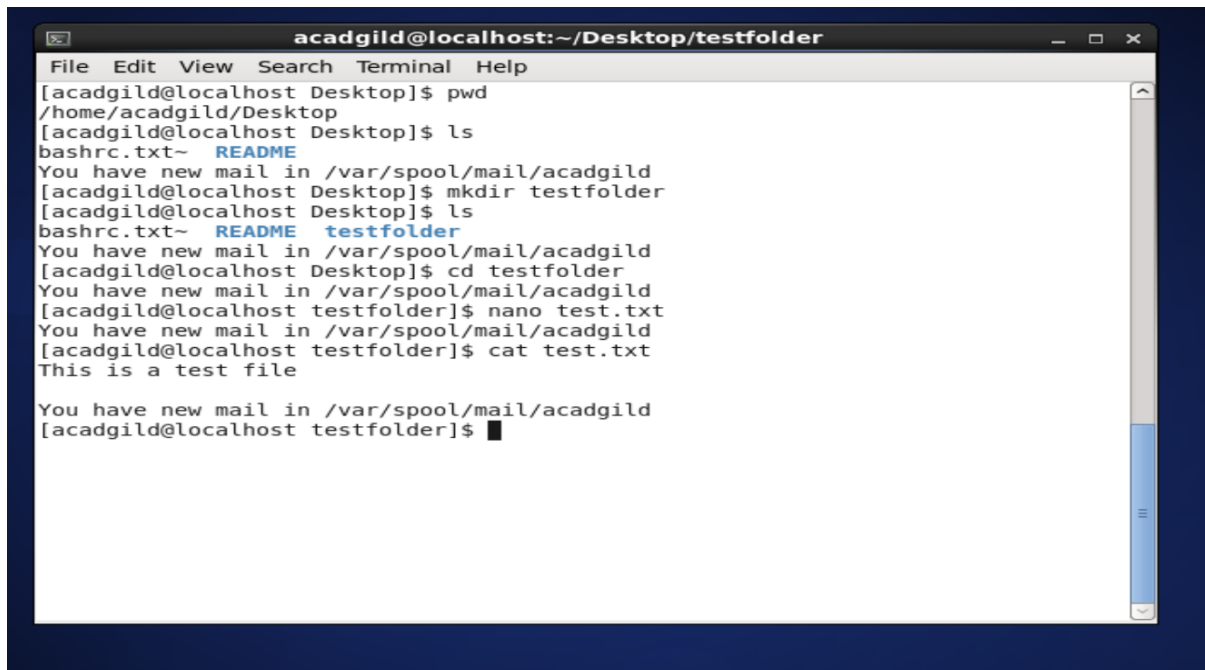
Pwd: Gives present working directory

Ls: used for listing all files in folder

Mkdir : used for making directory in working folder

```
[acadgild@localhost Desktop]$ pwd
/home/acadgild/Desktop
[acadgild@localhost Desktop]$ ls
bashrc.txt~  README
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Desktop]$ mkdir testfolder
[acadgild@localhost Desktop]$ ls
bashrc.txt~  README  testfolder
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Desktop]$ cd testfolder
You have new mail in /var/spool/mail/acadgild
```

Create text file using nano editor (nano test.txt) and verify whether data has been saved using cat command



```
acadgild@localhost:~/Desktop/testfolder
File Edit View Search Terminal Help
[acadgild@localhost Desktop]$ pwd
/home/acadgild/Desktop
[acadgild@localhost Desktop]$ ls
bashrc.txt~ README
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Desktop]$ mkdir testfolder
[acadgild@localhost Desktop]$ ls
bashrc.txt~ README testfolder
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Desktop]$ cd testfolder
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost testfolder]$ nano test.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost testfolder]$ cat test.txt
This is a test file

You have new mail in /var/spool/mail/acadgild
[acadgild@localhost testfolder]$
```



```
acadgild@localhost:~/Desktop/testfolder
File Edit View Search Terminal Help
GNU nano 2.0.9 File: test.txt Modified
This is a test file

[ New File ]
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
```

Using Localhost:50070, we can see all the information related to cluster and its configuration

Overview 'localhost:8020' (active)

| | |
|----------------|--|
| Started: | Sat Oct 13 17:01:52 IST 2018 |
| Version: | 2.6.5, re8c9fe0b4c252caf2ebf1464220599650f119997 |
| Compiled: | 2016-10-02T23:43Z by sjlee from branch-2.6.5 |
| Cluster ID: | CID-7b3f9bd8-f34c-4fb8-87aa-f76b6dfbd809 |
| Block Pool ID: | BP-437583619-127.0.0.1-1517555661954 |

Summary

| | |
|---|----------|
| Security is off. | |
| Safemode is off. | |
| 27 files and directories, 3 blocks = 30 total filesystem object(s). | |
| Heap Memory used 40.53 MB of 49.27 MB Heap Memory. Max Heap Memory is 966.69 MB. | |
| Non Heap Memory used 42.49 MB of 43.56 MB Committed Non Heap Memory. Max Non Heap Memory is -1 B. | |
| Configured Capacity: | 17.11 GB |