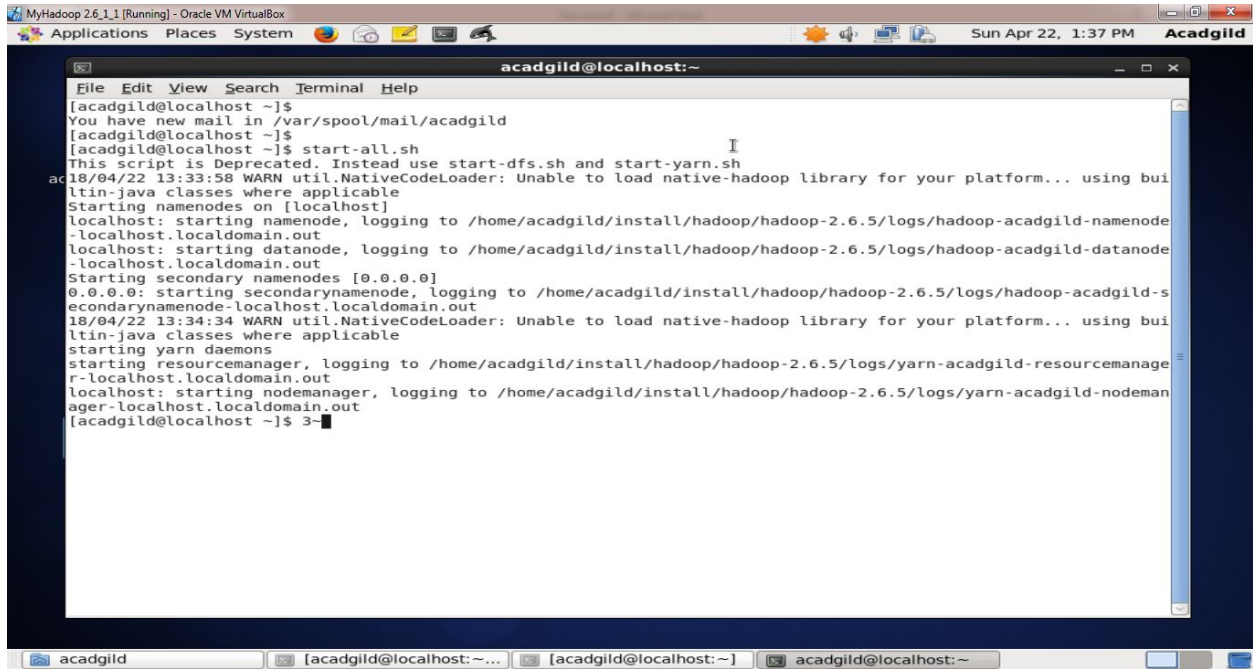
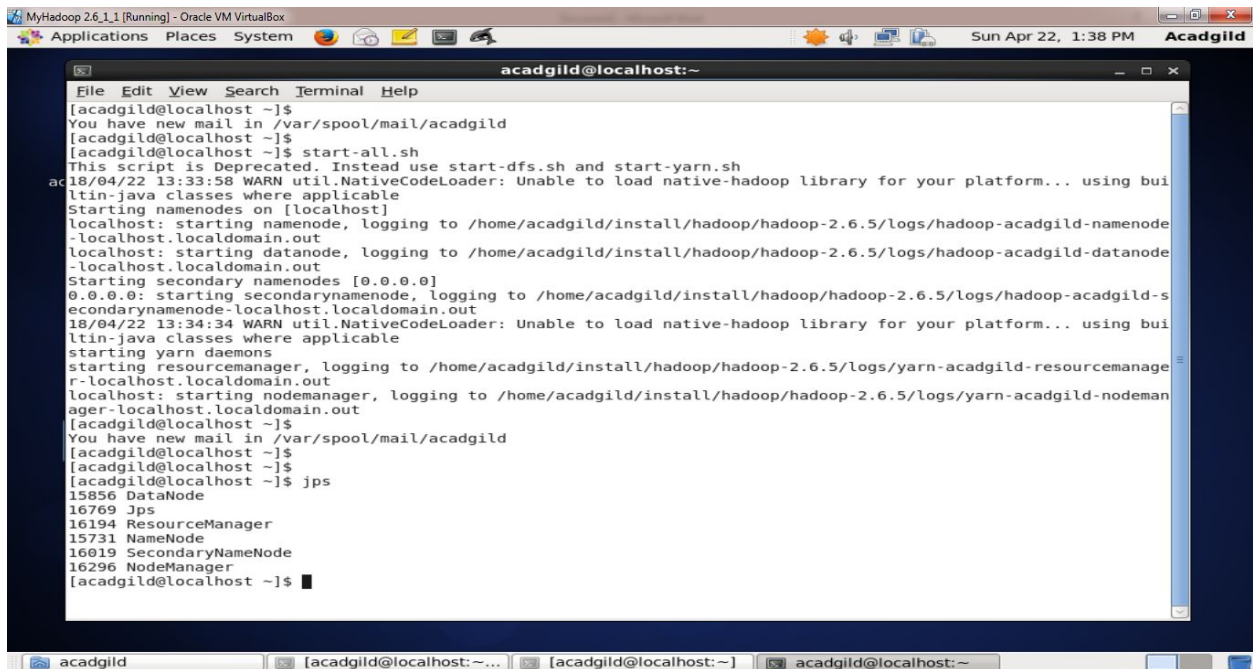


- 1) Start Hadoop single node on AcadGild VM. The command is start-all.sh.
Start-all.sh command starts all hadoop related services.



```
acadm@localhost:~$ start-all.sh
This script is deprecated. Instead use start-dfs.sh and start-yarn.sh
18/04/22 13:33:58 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using bui
ltin-java classes where applicable
Starting namenodes on [localhost]
localhost: starting namenode, logging to /home/acadm/install/hadoop/hadoop-2.6.5/logs/hadoop-acadm-namenode
localhost.localdomain.out
localhost: starting datanode, logging to /home/acadm/install/hadoop/hadoop-2.6.5/logs/hadoop-acadm-datanode
localhost.localdomain.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /home/acadm/install/hadoop/hadoop-2.6.5/logs/hadoop-acadm-s
econdarynamenode-localhost.localdomain.out
18/04/22 13:34:34 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using bui
ltin-java classes where applicable
starting yarn daemons
starting resourcemanager, logging to /home/acadm/install/hadoop/hadoop-2.6.5/logs/yarn-acadm-resourcemanager-localhost.localdomain.out
localhost: starting nodemanager, logging to /home/acadm/install/hadoop/hadoop-2.6.5/logs/yarn-acadm-nodemanager-localhost.localdomain.out
[acadm@localhost ~]$ 3-
```

- 2) Run a JPS command to see if all Hadoop daemons are running.
Jps Command shows the nodes which are started by start-all.sh command.



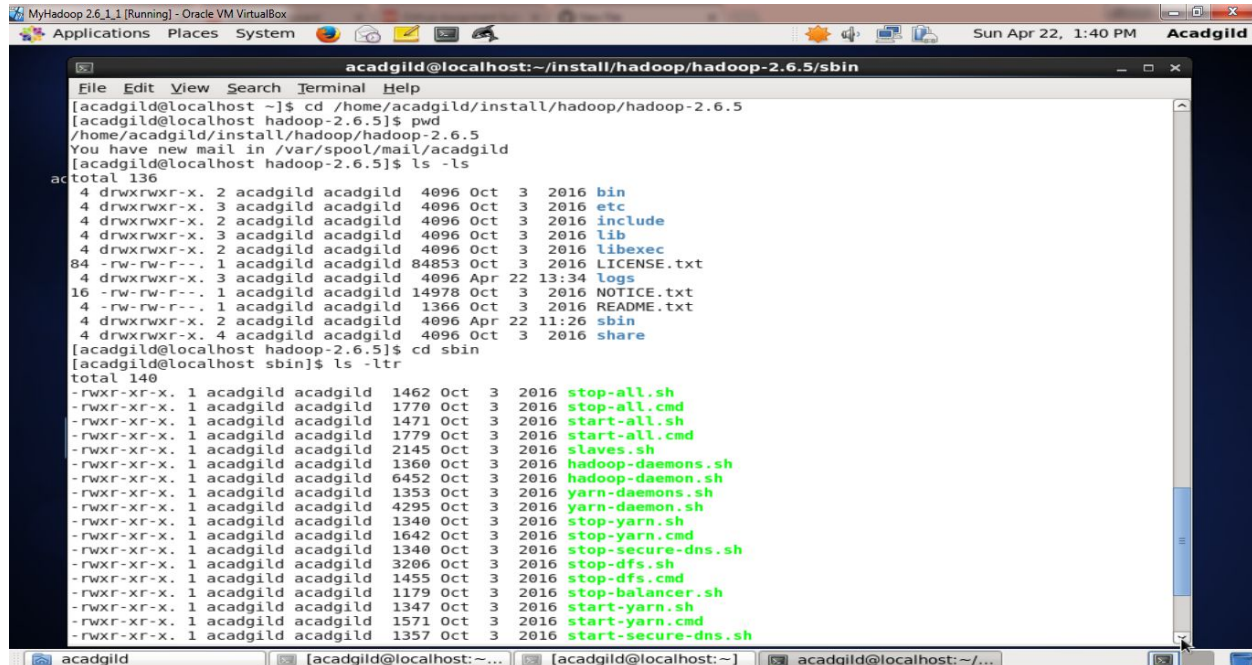
```
acadm@localhost:~$ jps
15856 DataNode
16769 Jps
16194 ResourceManager
15731 NameNode
16019 SecondaryNameNode
16296 NodeManager
[acadm@localhost ~]$
```

- 3) Run few Unix commands like pwd, ls -ls, etc.

Pwd command in unix shows the current directory you are working on.

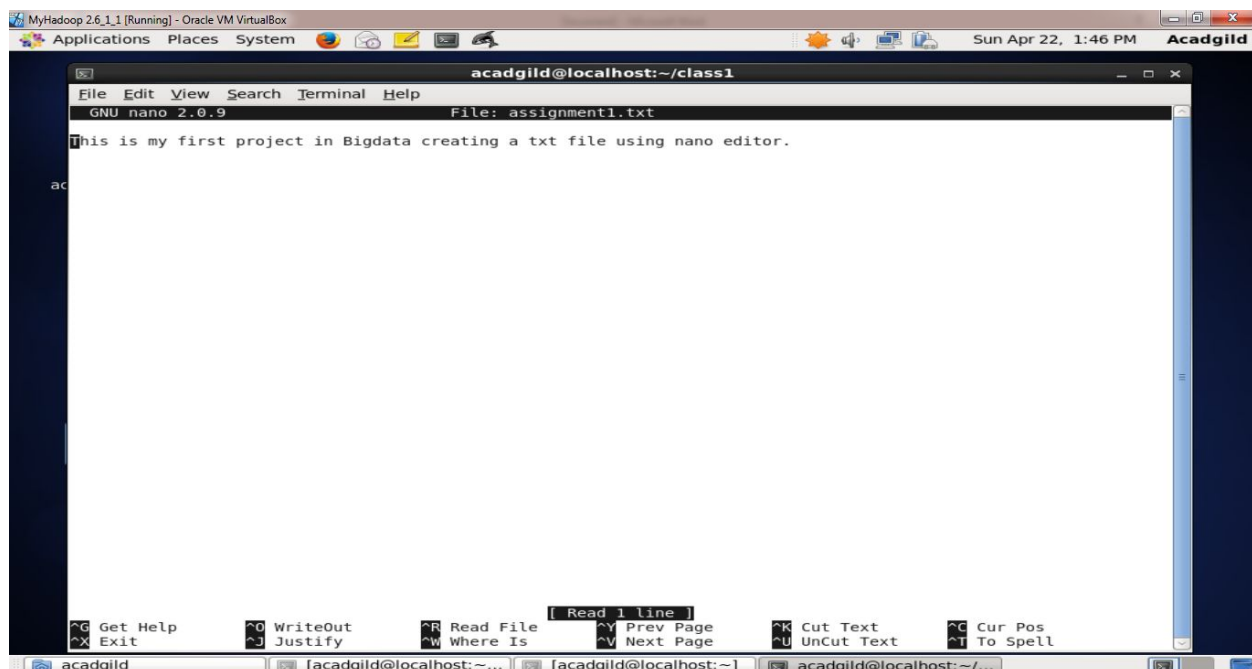
ls -ls , ls-ltr shows the list of all files and directories in the current directory.

Cd sbin command changes the directory to sbin.

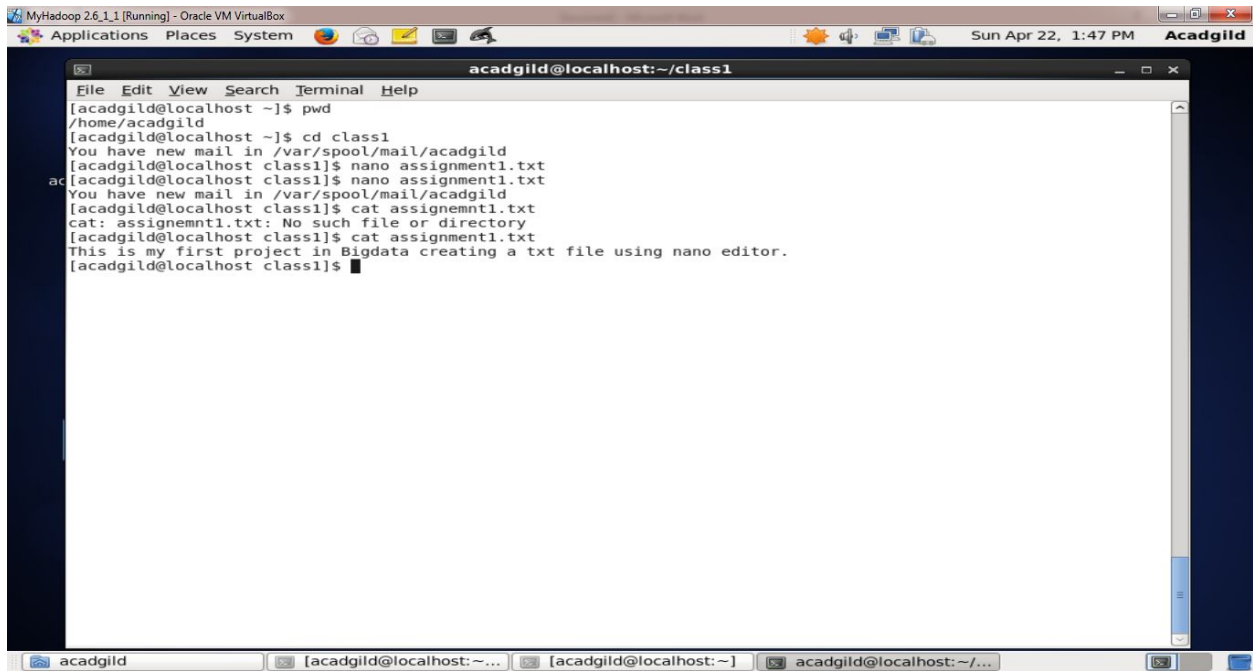


```
acadmild@localhost: ~/install/hadoop/hadoop-2.6.5/sbin
[acadmild@localhost ~]$ cd /home/acadmild/install/hadoop/hadoop-2.6.5
[acadmild@localhost hadoop-2.6.5]$ pwd
/home/acadmild/install/hadoop/hadoop-2.6.5
You have new mail in /var/spool/mail/acadmild
[acadmild@localhost hadoop-2.6.5]$ ls -ls
total 136
4 drwxrwxr-x. 2 acadmild acadmild 4096 Oct 3 2016 bin
4 drwxrwxr-x. 3 acadmild acadmild 4096 Oct 3 2016 etc
4 drwxrwxr-x. 2 acadmild acadmild 4096 Oct 3 2016 include
4 drwxrwxr-x. 3 acadmild acadmild 4096 Oct 3 2016 lib
4 drwxrwxr-x. 2 acadmild acadmild 4096 Oct 3 2016 libexec
84 -rw-rw-r--. 1 acadmild acadmild 84853 Oct 3 2016 LICENSE.txt
4 drwxrwxr-x. 3 acadmild acadmild 4096 Apr 22 13:34 logs
16 -rw-rw-r--. 1 acadmild acadmild 14978 Oct 3 2016 NOTICE.txt
4 -rw-rw-r--. 1 acadmild acadmild 1366 Oct 3 2016 README.txt
4 drwxrwxr-x. 2 acadmild acadmild 4096 Apr 22 11:26 sbin
4 drwxrwxr-x. 4 acadmild acadmild 4096 Oct 3 2016 share
[acadmild@localhost hadoop-2.6.5]$ cd sbin
[acadmild@localhost sbin]$ ls -ltr
total 140
-rwxr-xr-x. 1 acadmild acadmild 1462 Oct 3 2016 stop-all.sh
-rwxr-xr-x. 1 acadmild acadmild 1770 Oct 3 2016 stop-all.cmd
-rwxr-xr-x. 1 acadmild acadmild 1471 Oct 3 2016 start-all.sh
-rwxr-xr-x. 1 acadmild acadmild 1779 Oct 3 2016 start-all.cmd
-rwxr-xr-x. 1 acadmild acadmild 2145 Oct 3 2016 slaves.sh
-rwxr-xr-x. 1 acadmild acadmild 1360 Oct 3 2016 hadoop-daemons.sh
-rwxr-xr-x. 1 acadmild acadmild 6452 Oct 3 2016 hadoop-daemon.sh
-rwxr-xr-x. 1 acadmild acadmild 1353 Oct 3 2016 yarn-daemons.sh
-rwxr-xr-x. 1 acadmild acadmild 4295 Oct 3 2016 yarn-daemon.sh
-rwxr-xr-x. 1 acadmild acadmild 1340 Oct 3 2016 stop-yarn.sh
-rwxr-xr-x. 1 acadmild acadmild 1642 Oct 3 2016 stop-yarn.cmd
-rwxr-xr-x. 1 acadmild acadmild 1340 Oct 3 2016 stop-secure-dns.sh
-rwxr-xr-x. 1 acadmild acadmild 3206 Oct 3 2016 stop-dfs.sh
-rwxr-xr-x. 1 acadmild acadmild 1455 Oct 3 2016 stop-dfs.cmd
-rwxr-xr-x. 1 acadmild acadmild 1179 Oct 3 2016 stop-balancer.sh
-rwxr-xr-x. 1 acadmild acadmild 1347 Oct 3 2016 start-yarn.sh
-rwxr-xr-x. 1 acadmild acadmild 1571 Oct 3 2016 start-yarn.cmd
-rwxr-xr-x. 1 acadmild acadmild 1357 Oct 3 2016 start-secure-dns.sh
```

- 4) Create a file from the terminal using nano editor (example: nano test.txt), and add some content in it. Cat it to see if the content is saved.

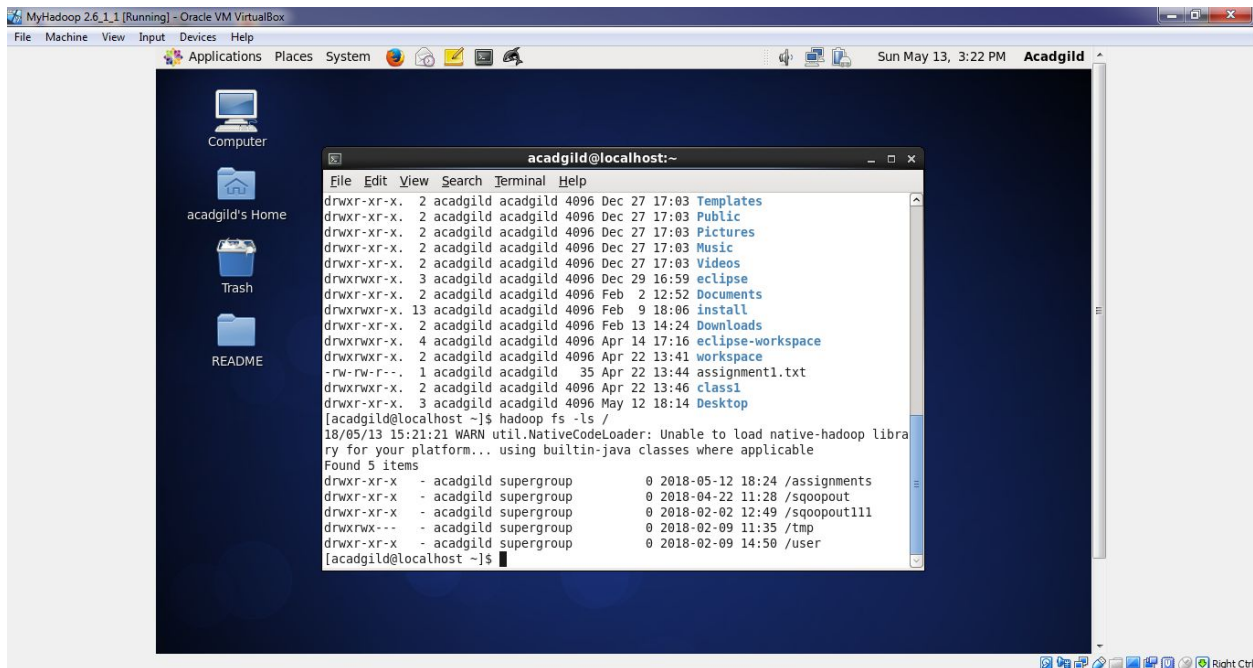


```
acadmild@localhost: ~/class1
GNU nano 2.0.9 File: assignment1.txt
This is my first project in Bigdata creating a txt file using nano editor.
```



```
MyHadoop 2.6.1.1 [Running] - Oracle VM VirtualBox
Applications Places System
acadmild@localhost:~/class1
File Edit View Search Terminal Help
[acadmild@localhost ~]$ pwd
/home/acadmild
[acadmild@localhost ~]$ cd class1
You have new mail in /var/spool/mail/acadmild
[acadmild@localhost class1]$ nano assignment1.txt
[acadmild@localhost class1]$ nano assignment1.txt
You have new mail in /var/spool/mail/acadmild
[acadmild@localhost class1]$ cat assignemnt1.txt
cat: assignemnt1.txt: No such file or directory
[acadmild@localhost class1]$ cat assignment1.txt
This is my first project in Bigdata creating a txt file using nano editor.
[acadmild@localhost class1]$
```

5) Open the hdfs web page by typing localhost:50070 in the browser. Check all the details of the HDFS.



```
MyHadoop 2.6.1.1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places System
acadmild@localhost:~
Computer
acadmild's Home
Trash
README
acadmild@localhost:~
File Edit View Search Terminal Help
drwxr-xr-x. 2 acadmild acadmild 4096 Dec 27 17:03 Templates
drwxr-xr-x. 2 acadmild acadmild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadmild acadmild 4096 Dec 27 17:03 Pictures
drwxr-xr-x. 2 acadmild acadmild 4096 Dec 27 17:03 Music
drwxr-xr-x. 2 acadmild acadmild 4096 Dec 27 17:03 Videos
drwxrwxr-x. 3 acadmild acadmild 4096 Dec 29 16:59 eclipse
drwxr-xr-x. 2 acadmild acadmild 4096 Feb 2 12:52 Documents
drwxrwxr-x. 13 acadmild acadmild 4096 Feb 9 18:06 install
drwxr-xr-x. 2 acadmild acadmild 4096 Feb 13 14:24 Downloads
drwxrwxr-x. 4 acadmild acadmild 4096 Apr 14 17:16 eclipse-workspace
drwxrwxr-x. 2 acadmild acadmild 4096 Apr 22 13:41 workspace
-rw-rw-r--. 1 acadmild acadmild 35 Apr 22 13:44 assignment1.txt
drwxrwxr-x. 2 acadmild acadmild 4096 Apr 22 13:46 class1
drwxr-xr-x. 3 acadmild acadmild 4096 May 12 18:14 Desktop
[acadmild@localhost ~]$ hadoop fs -ls /
18/05/13 15:21:21 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 5 items
drwxr-xr-x - acadmild supergroup 0 2018-05-12 18:24 /assignments
drwxr-xr-x - acadmild supergroup 0 2018-04-22 11:28 /sqoopout
drwxr-xr-x - acadmild supergroup 0 2018-02-02 12:49 /sqoopout111
drwxrwx-- - acadmild supergroup 0 2018-02-09 11:35 /tmp
drwxr-xr-x - acadmild supergroup 0 2018-02-09 14:50 /user
[acadmild@localhost ~]$
```

In Localhost:50070 under utilities, browse the file system displays all files in HDFS.

