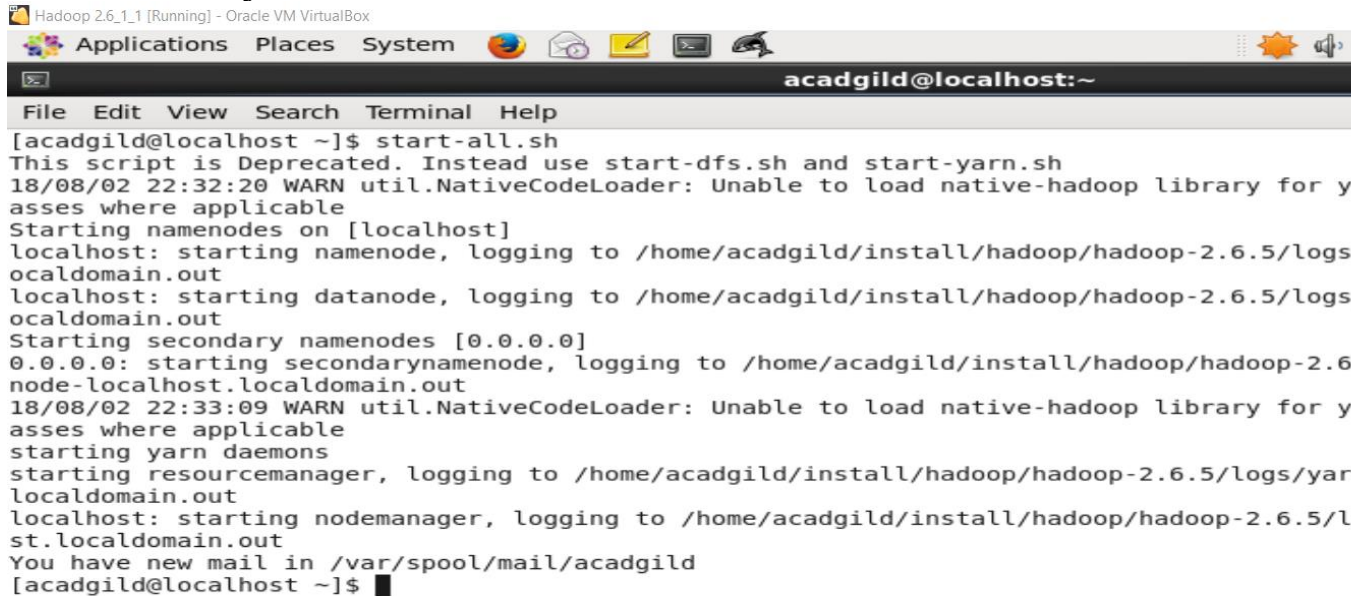


ASSIGNMENT 1

COMMANDS USED:

- **Start-all.sh**

Starts all Hadoop daemons, the namenode, secondary namenode , datanodes, the jobtracker and tasktrackers.

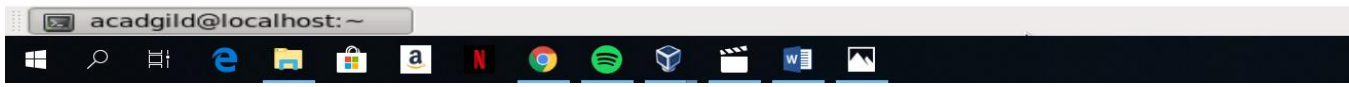


```
Hadoop 2.6_1_1 [Running] - Oracle VM VirtualBox
Applications Places System
acadgild@localhost:~
File Edit View Search Terminal Help
[acadgild@localhost ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/08/02 22:32:20 WARN util.NativeCodeLoader: Unable to load native-hadoop library for y
asses where applicable
Starting namenodes on [localhost]
localhost: starting namenode, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs
ocaldomain.out
localhost: starting datanode, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs
ocaldomain.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /home/acadgild/install/hadoop/hadoop-2.6
node-localhost.localdomain.out
18/08/02 22:33:09 WARN util.NativeCodeLoader: Unable to load native-hadoop library for y
asses where applicable
starting yarn daemons
starting resource manager, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/yar
localdomain.out
localhost: starting nodemanager, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/l
st.localdomain.out
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

- **Jps**

It is a Java **command** which actually checks the java processes that must be up and running like NameNode, DataNode, ResourceManager, NodeManager etc.

```
Hadoop 2.6.1_1 [Running] - Oracle VM VirtualBox
Applications Places System
[acadgild@localhost ~]$ jps
7600 SecondaryNameNode
8163 Jps
7380 DataNode
7284 NameNode
7844 NodeManager
7739 ResourceManager
[acadgild@localhost ~]$
```



- **Pwd**

The pwd command writes the full pathname of the current working directory to the standard output.

- **Ls -l**

This command lists all the files and directories present in the specified path. The **-l** option, **ls** will list out files and directories in long list format provided by the user, showing the names, permissions, owner, size and modification date for each entry.

```
Hadoop 2.6.1_1 [Running] - Oracle VM VirtualBox
Applications Places System
acadmild@localhost:~
File Edit View Search Terminal Help
[acadmild@localhost ~]$ pwd
/home/acadmild
[acadmild@localhost ~]$ ls -l
total 68
drwxr-xr-x. 3 acadmild acadmild 4096 Aug 27 18:22 Desktop
drwxrwxr-x. 2 acadmild acadmild 4096 Aug 27 18:42 dir1
drwxrwxr-x. 2 acadmild acadmild 4096 Aug 27 18:43 dir2
drwxr-xr-x. 2 acadmild acadmild 4096 Feb 2 2018 Documents
drwxr-xr-x. 2 acadmild acadmild 4096 Feb 13 2018 Downloads
drwxrwxr-x. 3 acadmild acadmild 4096 Dec 29 2017 eclipse
drwxrwxr-x. 3 acadmild acadmild 4096 Jan 16 2018 eclipse-workspace
drwxrwxr-x. 13 acadmild acadmild 4096 Feb 9 2018 install
drwxr-xr-x. 2 acadmild acadmild 4096 Dec 27 2017 Music
drwxr-xr-x. 2 acadmild acadmild 4096 Dec 27 2017 Pictures
drwxr-xr-x. 2 acadmild acadmild 4096 Dec 27 2017 Public
-rw-rw-r--. 1 acadmild acadmild 27 Aug 2 22:35 read1.txt
drwxr-xr-x. 2 acadmild acadmild 4096 Dec 27 2017 Templates
-rw-r--r--. 1 acadmild acadmild 45 Aug 5 20:27 test1.txt
-rw-r--r--. 1 acadmild acadmild 45 Aug 5 19:33 test.txt
-rw-rw-r--. 1 acadmild acadmild 35 Aug 2 21:22 test.txt~
drwxr-xr-x. 2 acadmild acadmild 4096 Dec 27 2017 Videos
[acadmild@localhost ~]$
```

- **Nano read1.txt**

Creating a file using nano editor.

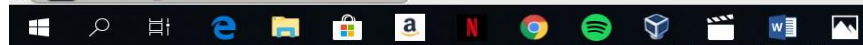
- **Cat read1.txt**

Cat command allows us to create single or multiple files, view the content of the file.

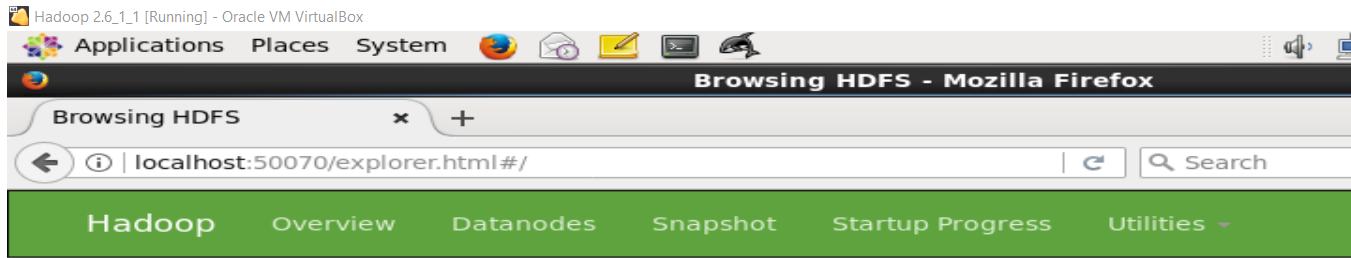
Hadoop 2.6_1_1 [Running] - Oracle VM VirtualBox

```
Applications Places System  
acadgild@localhost:~  
File Edit View Search Terminal Help  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ nano read1.txt  
[acadgild@localhost ~]$ cat read1.txt  
HI ! Welcome to BIG data !  
[acadgild@localhost ~]$
```

acadgild@localhost: ~



- <http://localhost:50070/>



Browse Directory

/

Permission	Owner	Group	Size	Replication	Block
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B
drwxrwx---	acadgild	supergroup	0 B	0	0 B
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B

Hadoop, 2016.



Hadoop 2.6_1_1 [Running] - Oracle VM VirtualBox

Applications Places System

Namenode information - Mozilla Firefox

Namenode information x +

localhost:50070/dfshealth.html#tab-overview Search

Hadoop Overview Datanodes Snapshot Startup Progress Utilities

Overview 'localhost:8020' (active)

Started:	Mon Aug 27 18:19:34 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.

35 files and directories, 8 blocks = 43 total filesystem object(s).

Heap Memory used 41.63 MB of 60.79 MB Heap Memory. Max Heap Memory is 966.6

acadgild@localhost: ~ Namenode informatio... [Namenode informatio... Google - M

Type here to search

It checks all the details of the HDFS. All the files present, the number of blocks assigned to the files according to their size are displayed.