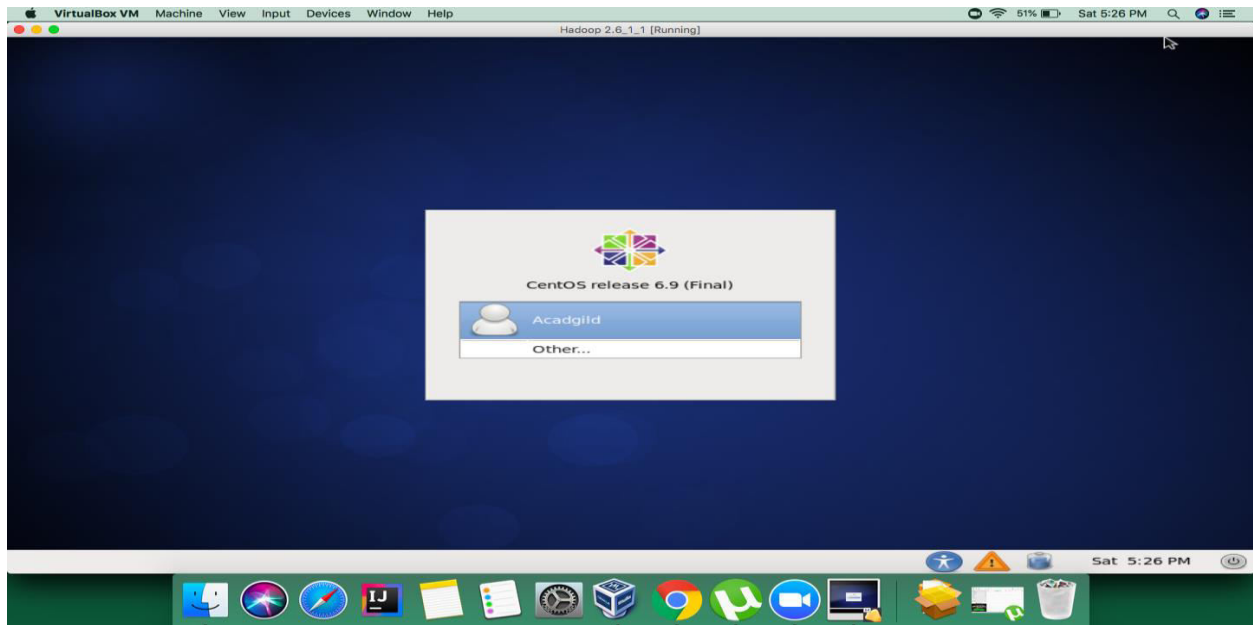
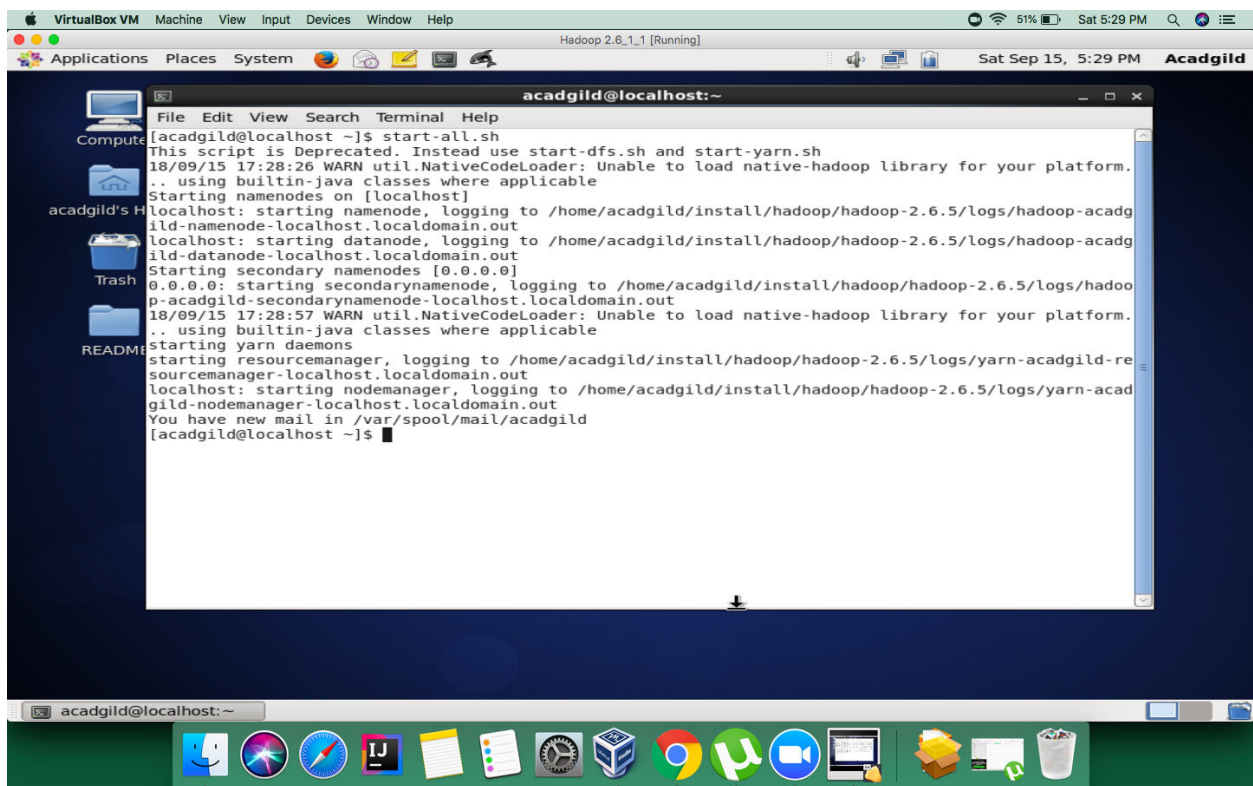


## Session 1 Assignment 1.1

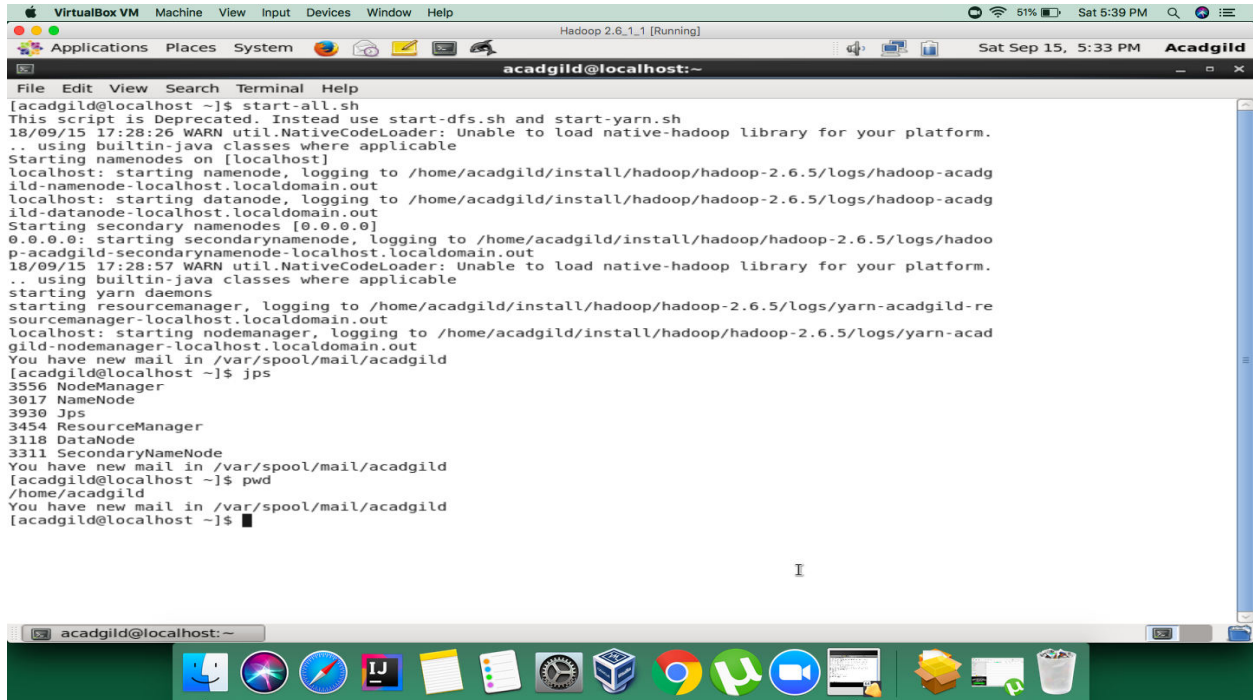
1. Downloaded Acadgild VM and logged in to it.



2. Ran start-all.sh on the command prompt to start all the Hadoop daemons on the VM machine.



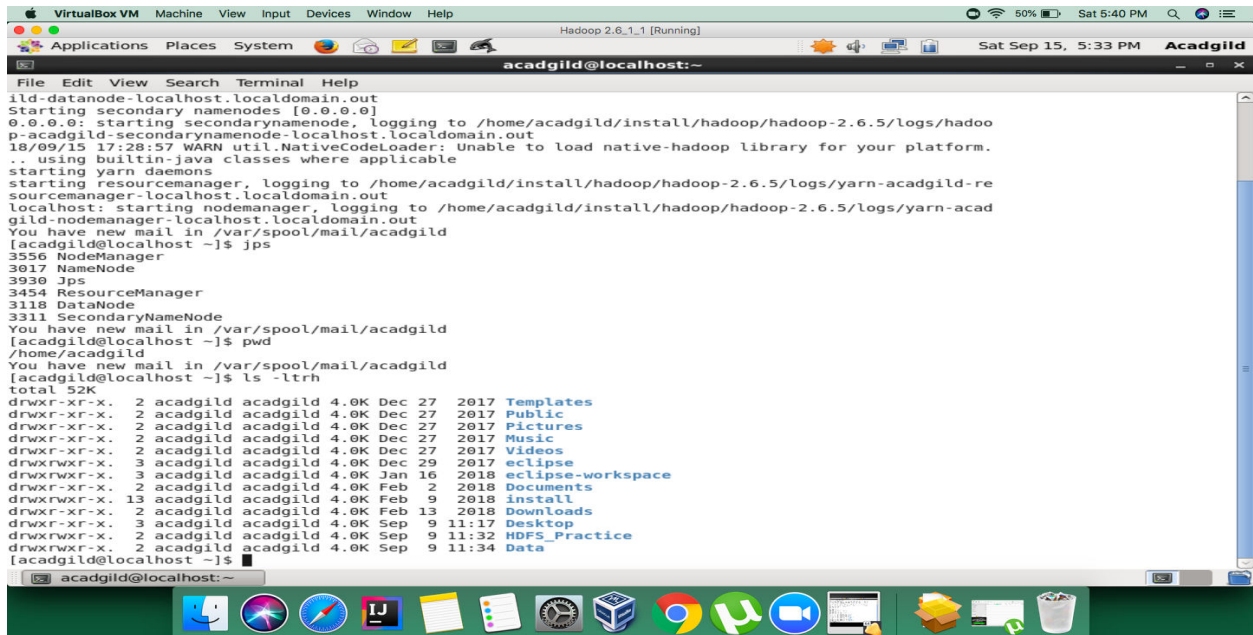
3. Ran `jps` command to check all the Hadoop daemons running on the machine (NameNode, DataNode, ResourceManager, NodeManager etc.).



The screenshot shows a terminal window titled 'acadgild@localhost:~' with the following output:

```
[acadgild@localhost ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/09/15 17:28:26 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 /home/acadgild/install/hadoop/hadoop-2.6.5/logs/hadoop-acadgild-namenode-localhost.localdomain.out
localhost: starting datanode, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/hadoop-acadgild-datanode-localhost.localdomain.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/hadoop-acadgild-secondarynamenode-localhost.localdomain.out
18/09/15 17:28:57 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 /home/acadgild/install/hadoop/hadoop-2.6.5/logs/yarn-acadgild-resourcemanager-localhost.localdomain.out
localhost: starting nodemanager, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/yarn-acadgild-nodemanager-localhost.localdomain.out
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ jps
3556 NodeManager
3017 NameNode
3930 Jps
3454 ResourceManager
3118 DataNode
3311 SecondaryNameNode
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ pwd
/home/acadgild
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

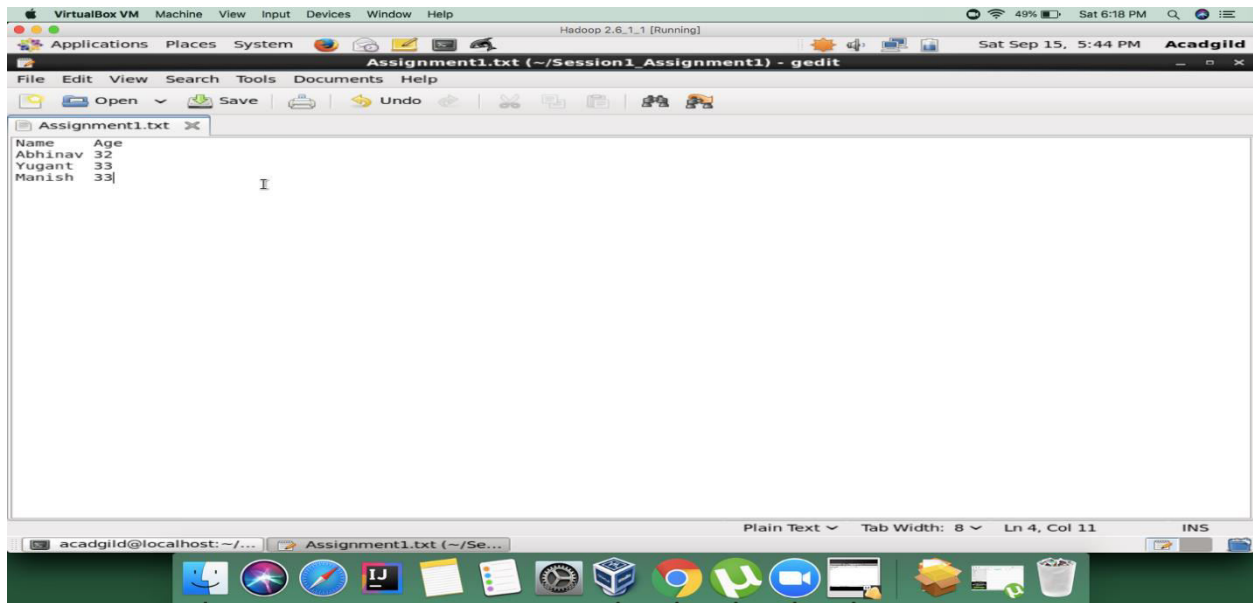
4. Ran `pwd` to check the current working directory and then ran `ls -ltrh` to list the file and folders in the current directory.



The screenshot shows a terminal window titled 'acadgild@localhost:~' with the following output:

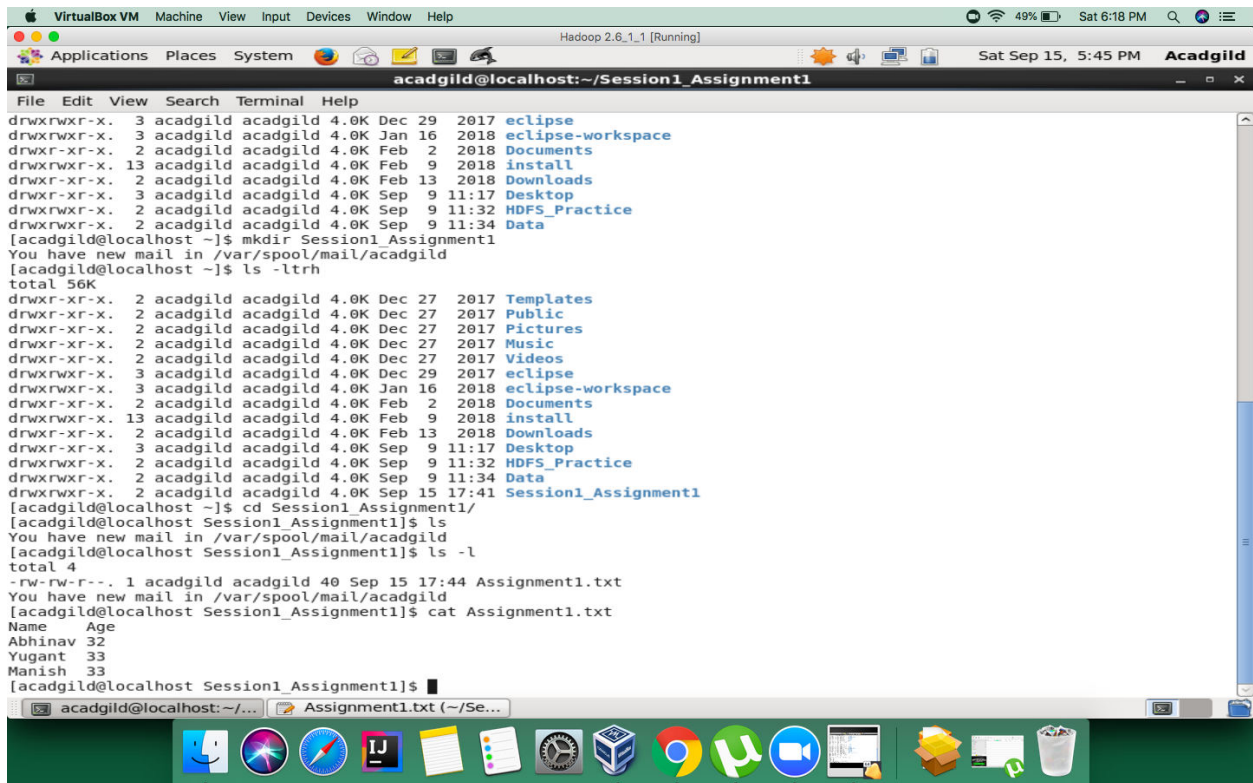
```
ild-datanode-localhost.localdomain.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/hadoop-acadgild-secondarynamenode-localhost.localdomain.out
18/09/15 17:28:57 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform.
.. using builtin-java classes where applicable
starting yarn daemons
starting resourcemanager, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/yarn-acadgild-resourcemanager-localhost.localdomain.out
localhost: starting nodemanager, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/yarn-acadgild-nodemanager-localhost.localdomain.out
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ jps
3556 NodeManager
3017 NameNode
3930 Jps
3454 ResourceManager
3118 DataNode
3311 SecondaryNameNode
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ pwd
/home/acadgild
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ls -ltrh
total 52K
drwxr-xr-x. 2 acadgild acadgild 4.0K Dec 27 2017 Templates
drwxr-xr-x. 2 acadgild acadgild 4.0K Dec 27 2017 Public
drwxr-xr-x. 2 acadgild acadgild 4.0K Dec 27 2017 Pictures
drwxr-xr-x. 2 acadgild acadgild 4.0K Dec 27 2017 Music
drwxr-xr-x. 2 acadgild acadgild 4.0K Dec 27 2017 Videos
drwxrwxr-x. 3 acadgild acadgild 4.0K Dec 29 2017 eclipse
drwxrwxr-x. 3 acadgild acadgild 4.0K Jan 16 2018 eclipse-workspace
drwxr-xr-x. 2 acadgild acadgild 4.0K Feb 2 2018 Documents
drwxrwxr-x. 13 acadgild acadgild 4.0K Feb 9 2018 install
drwxr-xr-x. 2 acadgild acadgild 4.0K Feb 13 2018 Downloads
drwxr-xr-x. 3 acadgild acadgild 4.0K Sep 9 11:17 Desktop
drwxrwxr-x. 2 acadgild acadgild 4.0K Sep 9 11:32 HDFS_Practice
drwxrwxr-x. 2 acadgild acadgild 4.0K Sep 9 11:34 Data
[acadgild@localhost ~]$
```

5. Created a file and added some records to it.



```
Assignment1.txt
Name    Age
Abhinav 32
Yugant  33
Manish  33
```

6. Ran cat to see the content of the file created above.



```
acadgild@localhost: ~/Session1_Assignment1
File Edit View Search Terminal Help
drwxrwxr-x. 3 acadgild acadgild 4.0K Dec 29 2017 eclipse
drwxrwxr-x. 3 acadgild acadgild 4.0K Jan 16 2018 eclipse-workspace
drwxr-xr-x. 2 acadgild acadgild 4.0K Feb 2 2018 Documents
drwxrwxr-x. 13 acadgild acadgild 4.0K Feb 9 2018 install
drwxr-xr-x. 2 acadgild acadgild 4.0K Feb 13 2018 Downloads
drwxr-xr-x. 3 acadgild acadgild 4.0K Sep 9 11:17 Desktop
drwxrwxr-x. 2 acadgild acadgild 4.0K Sep 9 11:32 HDFS_Practice
drwxrwxr-x. 2 acadgild acadgild 4.0K Sep 9 11:34 Data
[acadgild@localhost ~]$ mkdir Session1 Assignment1
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ls -ltrh
total 56K
drwxr-xr-x. 2 acadgild acadgild 4.0K Dec 27 2017 Templates
drwxr-xr-x. 2 acadgild acadgild 4.0K Dec 27 2017 Public
drwxr-xr-x. 2 acadgild acadgild 4.0K Dec 27 2017 Pictures
drwxr-xr-x. 2 acadgild acadgild 4.0K Dec 27 2017 Music
drwxr-xr-x. 2 acadgild acadgild 4.0K Dec 27 2017 Videos
drwxrwxr-x. 3 acadgild acadgild 4.0K Dec 29 2017 eclipse
drwxrwxr-x. 3 acadgild acadgild 4.0K Jan 16 2018 eclipse-workspace
drwxr-xr-x. 2 acadgild acadgild 4.0K Feb 2 2018 Documents
drwxrwxr-x. 13 acadgild acadgild 4.0K Feb 9 2018 install
drwxr-xr-x. 2 acadgild acadgild 4.0K Feb 13 2018 Downloads
drwxrwxr-x. 3 acadgild acadgild 4.0K Sep 9 11:17 Desktop
drwxrwxr-x. 2 acadgild acadgild 4.0K Sep 9 11:32 HDFS_Practice
drwxrwxr-x. 2 acadgild acadgild 4.0K Sep 9 11:34 Data
drwxrwxr-x. 2 acadgild acadgild 4.0K Sep 15 17:41 Session1_Assignment1
[acadgild@localhost ~]$ cd Session1 Assignment1/
[acadgild@localhost Session1_Assignment1]$ ls
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Session1_Assignment1]$ ls -l
total 4
-rw-rw-r--. 1 acadgild acadgild 40 Sep 15 17:44 Assignment1.txt
[acadgild@localhost Session1_Assignment1]$ cat Assignment1.txt
Name    Age
Abhinav 32
Yugant  33
Manish  33
[acadgild@localhost Session1_Assignment1]$
```

7. Opened the HDFS webpage and checked all the details of the HDFS.

The screenshot shows the Hadoop NameNode Overview page in a web browser. The browser window is titled "Namenode information - Mozilla Firefox" and the address bar shows "localhost:50070/dfshealth.html#tab-overview". The page has a green header with tabs: "Hadoop", "Overview", "Datanodes", "Snapshot", "Startup Progress", and "Utilities". The "Overview" tab is selected, showing the "Overview 'localhost:8020' (active)" section. This section contains a table with the following details:

Started:	Sat Sep 15 17:28:30 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

Below the table is a "Summary" section with the following text:

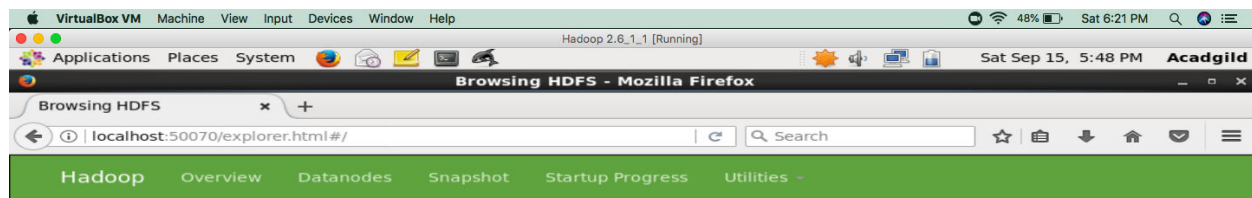
Security is off.  
Safemode is off.  
26 files and directories, 3 blocks = 29 total filesystem object(s).  
Heap Memory used 36.97 MB of 49.76 MB Heap Memory. Max Heap Memory is 966.69 MB.

The screenshot also shows the bottom of the browser window with the taskbar and the desktop environment. The taskbar includes icons for various applications, and the desktop shows a green background with several icons.

The second screenshot shows the same Hadoop NameNode Overview page, but with the "Datanodes" tab selected. This section displays a table with the following details:

Configured Capacity:	17.11 GB
DFS Used:	200 KB
Non DFS Used:	11.1 GB
DFS Remaining:	6 GB
DFS Used%:	0%
DFS Remaining%:	35.09%
Block Pool Used:	200 KB
Block Pool Used%:	0%
DataNodes usages% (Min/Median/Max/stdDev):	0.00% / 0.00% / 0.00% / 0.00%
Live Nodes	1 (Decommissioned: 0)
Dead Nodes	0 (Decommissioned: 0)
Decommissioning Nodes	0

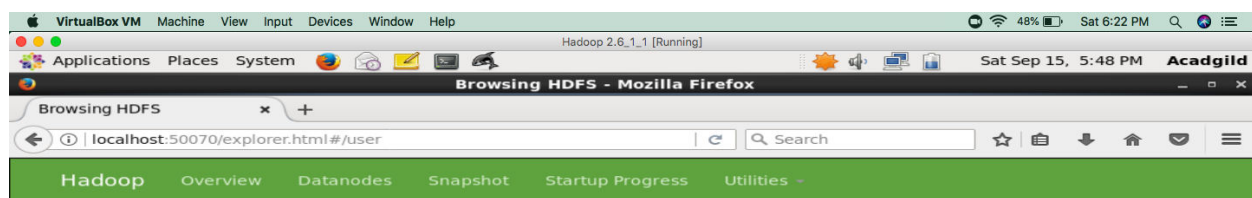




## Browse Directory

/							Go!
Permission	Owner	Group	Size	Replication	Block Size	Name	
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	<a href="#">sqoopout111</a>	
drwxrwx--	acadgild	supergroup	0 B	0	0 B	<a href="#">tmp</a>	
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	<a href="#">user</a>	

Hadoop, 2016.



## Browse Directory

/user							Go!
Permission	Owner	Group	Size	Replication	Block Size	Name	
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	<a href="#">hive</a>	

Hadoop, 2016.

