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

2) Run a JPS command to see if all Hadoop daemons are running.

```
Last login: Mon Nov 26 03:40:44 2018 from 10.0.2.2
[acadgild@localhost ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/11/27 00:27:46 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
applicable
Starting namenodes on [localhost]
localhost: starting namenode, logging to /home/acadgild/install/hadoop/hadoop-2.
ut
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/ha
doop-2.6.5/logs/hadoop-acadgild-secondarynamenode-localhost.localdomain.out
18/11/27 00:29:33 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry 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
3843 Jps
3206 DataNode
3576 ResourceManager
3341 SecondaryNameNode
3678 NodeManager
3087 NameNode
[acadgild@localhost ~]$
```
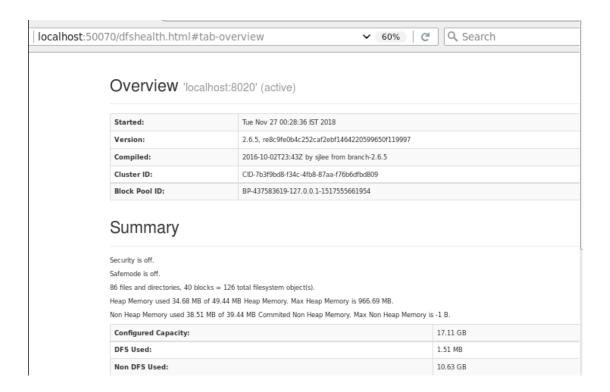
3) Run few Unix commands like pwd, ls -ls, etc.

```
[acadgild@localhost ~]$ mkdir Tarun_Jain
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cd Tarun_Jain/
[acadgild@localhost Tarun_Jain]$ touch word-count.txt
[acadgild@localhost Tarun_Jain]$ ls -al
total 8
drwxrwxr-x.  2 acadgild acadgild 4096 Nov 27 00:33 .
drwx------. 42 acadgild acadgild 4096 Nov 27 00:33 ..
-rw-rw-r--.  1 acadgild acadgild    0 Nov 27 00:33 word-count.txt
[acadgild@localhost Tarun_Jain]$
```

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.

```
^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
```

```
[acadgild@localhost Tarun_Jain]$ ls
[acadgild@localhost Tarun_Jain]$ nano data.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Tarun_Jain]$ cat data.txt
My Name is Tarun Jain. I am also known as Babaji.
I like babaji ki booti. It gives me wings.
[acadgild@localhost Tarun_Jain]$ █
```

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

details of the HDFS.

Overview 'localhost:8020' (active)

Started:	Tue Nov 27 00:28:36 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.

86 files and directories, 40 blocks = 126 total filesystem object(s).

Heap Memory used 34.68 MB of 49.44 MB Heap Memory. Max Heap Memory is 966.69 MB.

Non Heap Memory used 38.51 MB of 39.44 MB Commited Non Heap Memory. Max Non Heap Memory is -1 B.

Configured Capacity:	17.11 GB
DFS Used:	1.51 MB
Non DFS Used:	10.63 GB

Hadoop   Overview   Datanodes   Snapshot   Startup Progress   Utilities

Datanode Information

In operation

Node	Last contact	Admin State	Capacity	Used	Non DFS Used	Remaining	Blocks	Block pool used	Failed Volumes	Version
localhost (127.0.0.1:50010)	0	In Service	17.11 GB	1.51 MB	10.63 GB	6.48 GB	40	1.51 MB (0.01%)	0	2.6.5

Decomissioning

Node	Last contact	Under replicated blocks	Blocks with no live replicas	Under Replicated Blocks In files under construction

Hadoop, 2016.   Legacy UI

Explored other Details ws well.