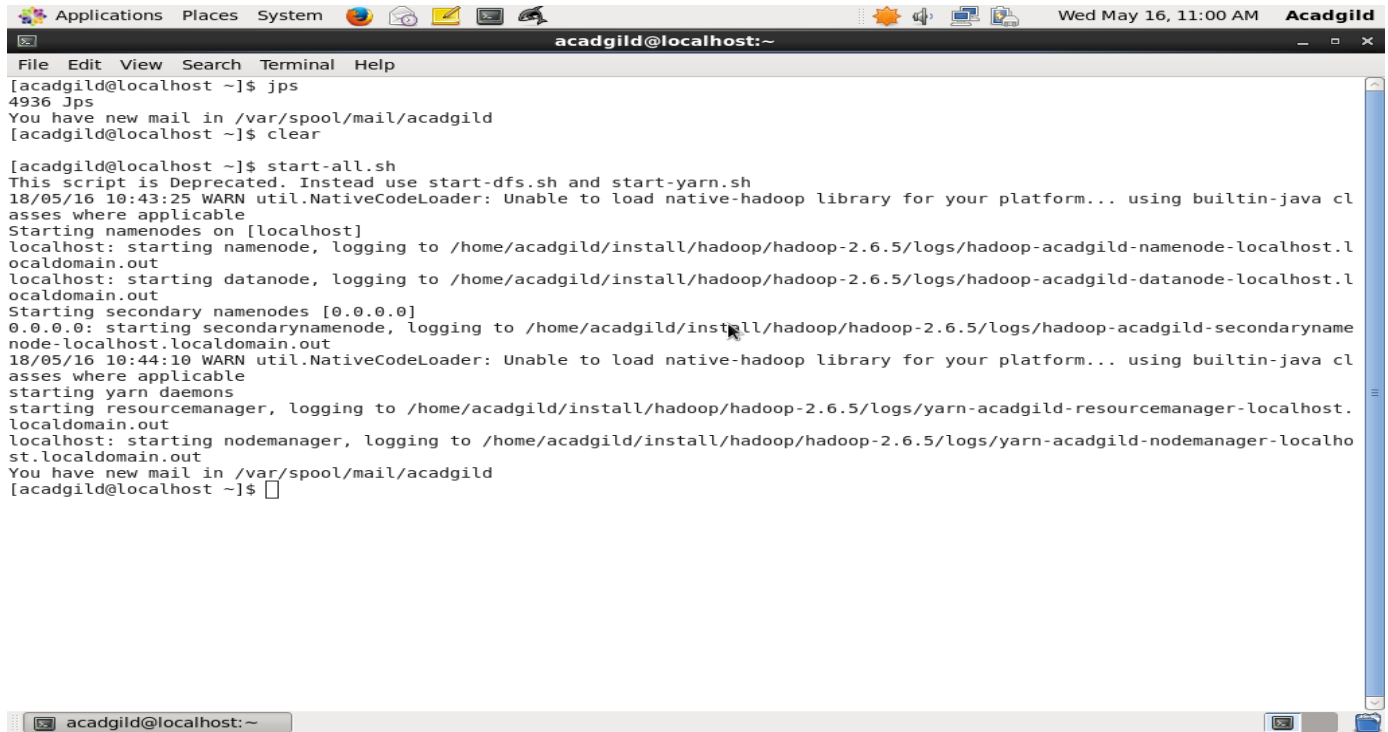


# Assignment 1

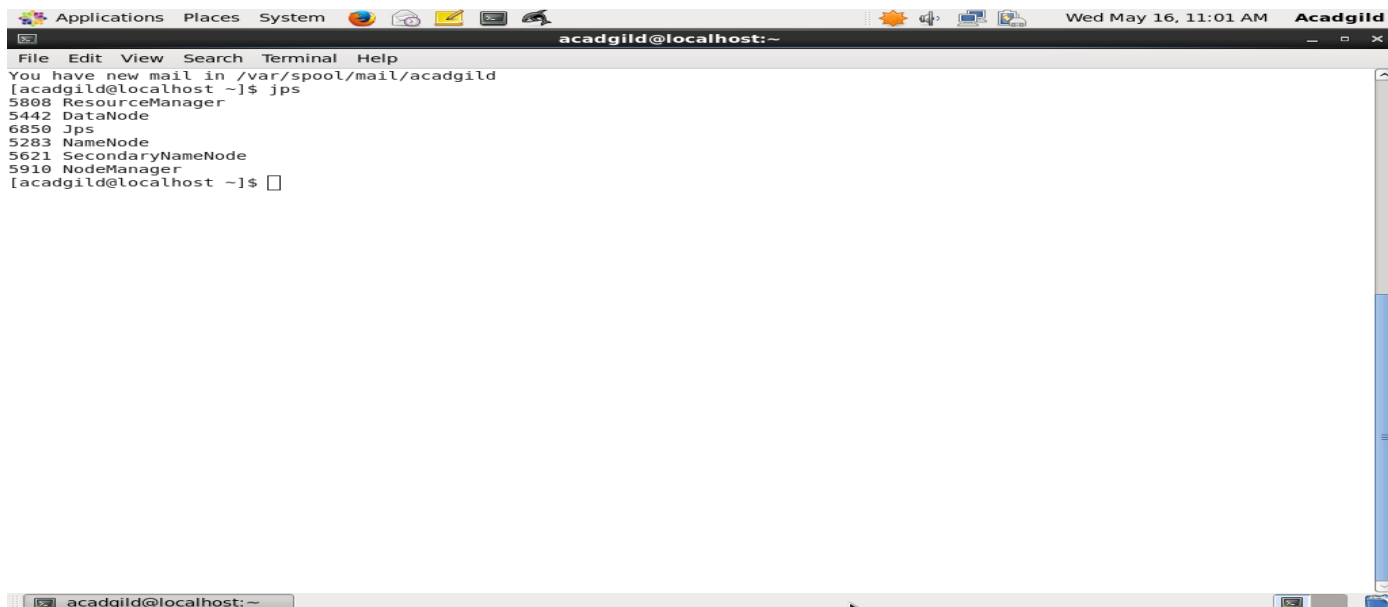
- 1) Start Hadoop single node on AcadGild VM. The command is start-all.sh.



```
Applications Places System acadgild@localhost:~
File Edit View Search Terminal Help
[acadgild@localhost ~]$ jps
4936 Jps
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ clear

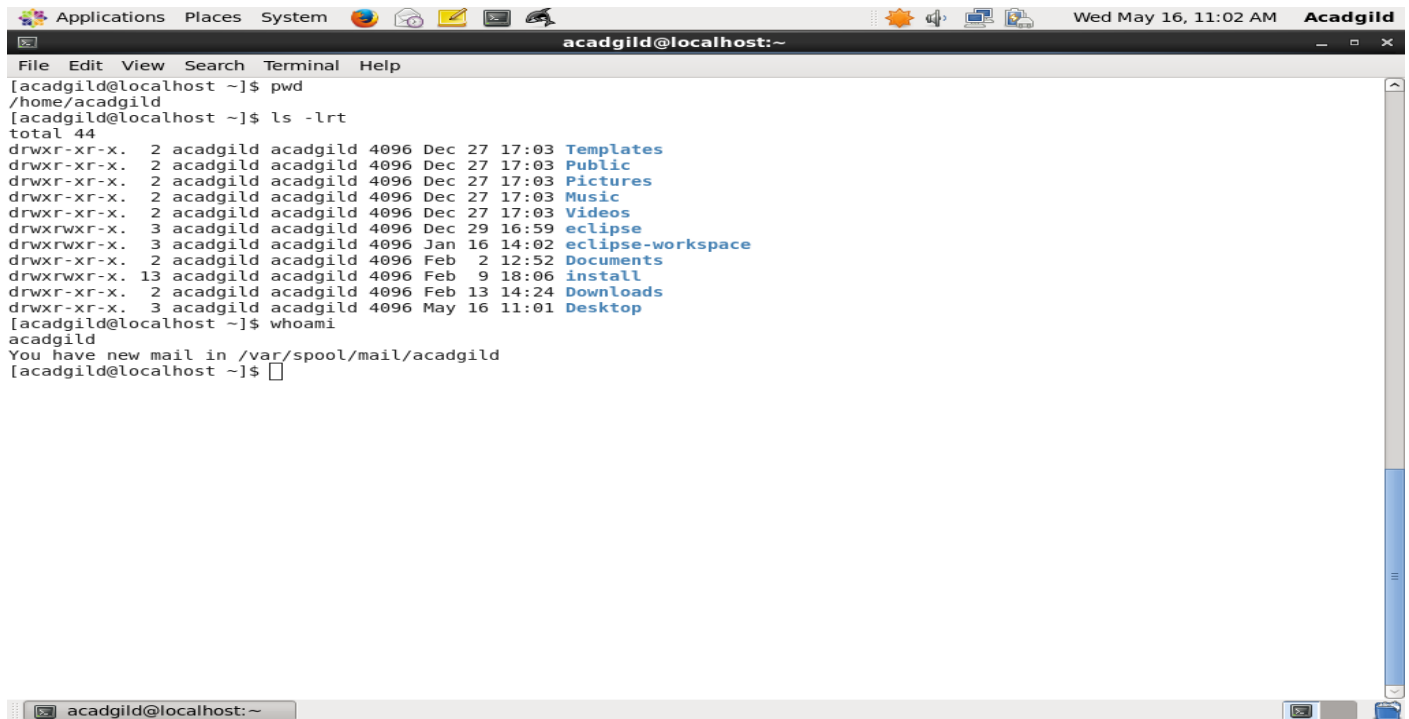
[acadgild@localhost ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/05/16 10:43:25 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Starting namenodes on [localhost]
localhost: starting namenode, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/hadoop-acadgild-namenode-localhost.l
ocaldomain.out
localhost: starting datanode, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/hadoop-acadgild-datanode-localhost.l
ocaldomain.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-secondaryname
node-localhost.localdomain.out
18/05/16 10:44:10 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses 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 ~]$
```

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



```
Applications Places System acadgild@localhost:~
File Edit View Search Terminal Help
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ jps
5808 ResourceManager
5442 DataNode
6850 Jps
5283 NameNode
5621 SecondaryNameNode
5910 NodeManager
[acadgild@localhost ~]$
```

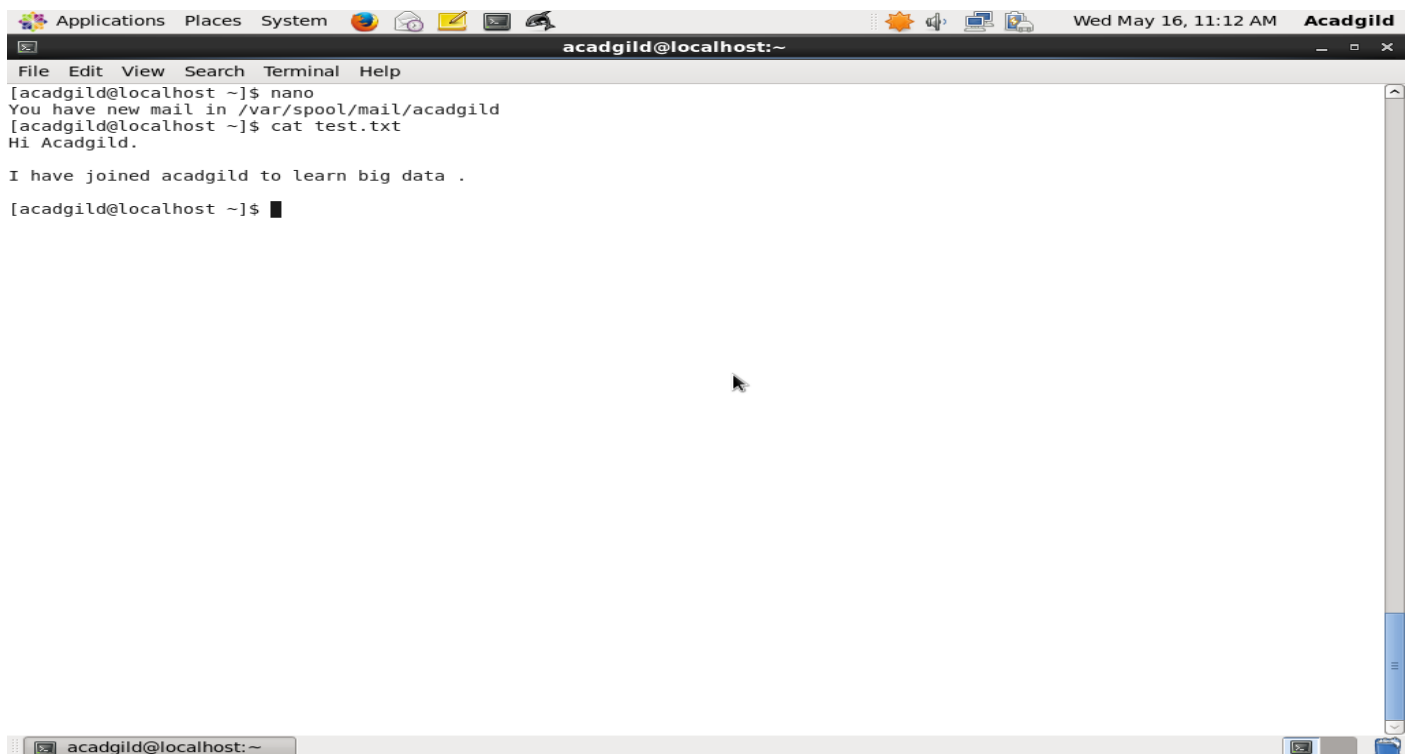
3) Run few Unix commands like pwd, ls -ls, etc.



A terminal window titled 'Acadgild' with a menu bar (File, Edit, View, Search, Terminal, Help) and a toolbar. The window shows the following commands and output:

```
[acadgild@localhost ~]$ pwd
/home/acadgild
[acadgild@localhost ~]$ ls -lrt
total 44
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Templates
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Pictures
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Music
drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
drwxrwxr-x. 3 acadgild acadgild 4096 Dec 29 16:59 eclipse
drwxrwxr-x. 3 acadgild acadgild 4096 Jan 16 14:02 eclipse-workspace
drwxr-xr-x. 2 acadgild acadgild 4096 Feb  2 12:52 Documents
drwxrwxr-x. 13 acadgild acadgild 4096 Feb  9 18:06 install
drwxr-xr-x. 2 acadgild acadgild 4096 Feb 13 14:24 Downloads
drwxr-xr-x. 3 acadgild acadgild 4096 May 16 11:01 Desktop
[acadgild@localhost ~]$ whoami
acadgild
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

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.

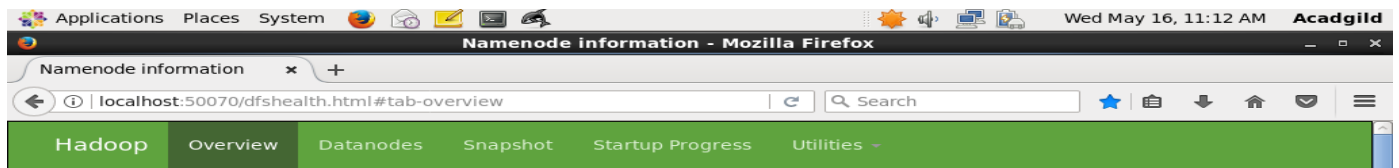


A terminal window titled 'Acadgild' with a menu bar (File, Edit, View, Search, Terminal, Help) and a toolbar. The window shows the following commands and output:

```
[acadgild@localhost ~]$ nano
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cat test.txt
Hi Acadgild.

I have joined acadgild to learn big data .
[acadgild@localhost ~]$
```

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



## Overview 'localhost:8020' (active)

<b>Started:</b>	Wed May 16 10:43:37 IST 2018
<b>Version:</b>	2.6.5, re8c9fe0b4c252caf2ebf1464220599650f119997
<b>Compiled:</b>	2016-10-02T23:43Z by sjlee from branch-2.6.5
<b>Cluster ID:</b>	CID-7b3f9bd8-f34c-4fb8-87aa-f76b6dfbd809
<b>Block Pool ID:</b>	BP-437583619-127.0.0.1-1517555661954

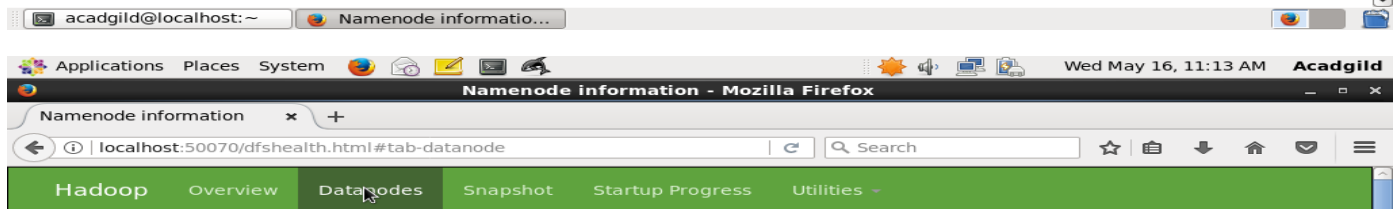
## Summary

Security is off.

Safemode is off.

28 files and directories, 3 blocks = 31 total filesystem object(s).

Heap Memory used 26.76 MB of 49.61 MB Heap Memory. Max Heap Memory is 966.69 MB.



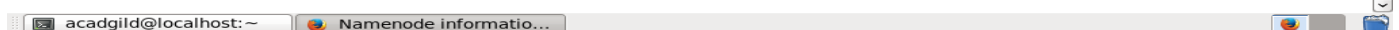
## Datanode Information

### 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)	2	In Service	17.11 GB	200 KB	11.65 GB	5.46 GB	3	200 KB (0%)	0	2.6.5

### Decommissioning

Node	Last contact	Under replicated blocks	Blocks with no live replicas	Under Replicated Blocks in files under construction
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[illegible]