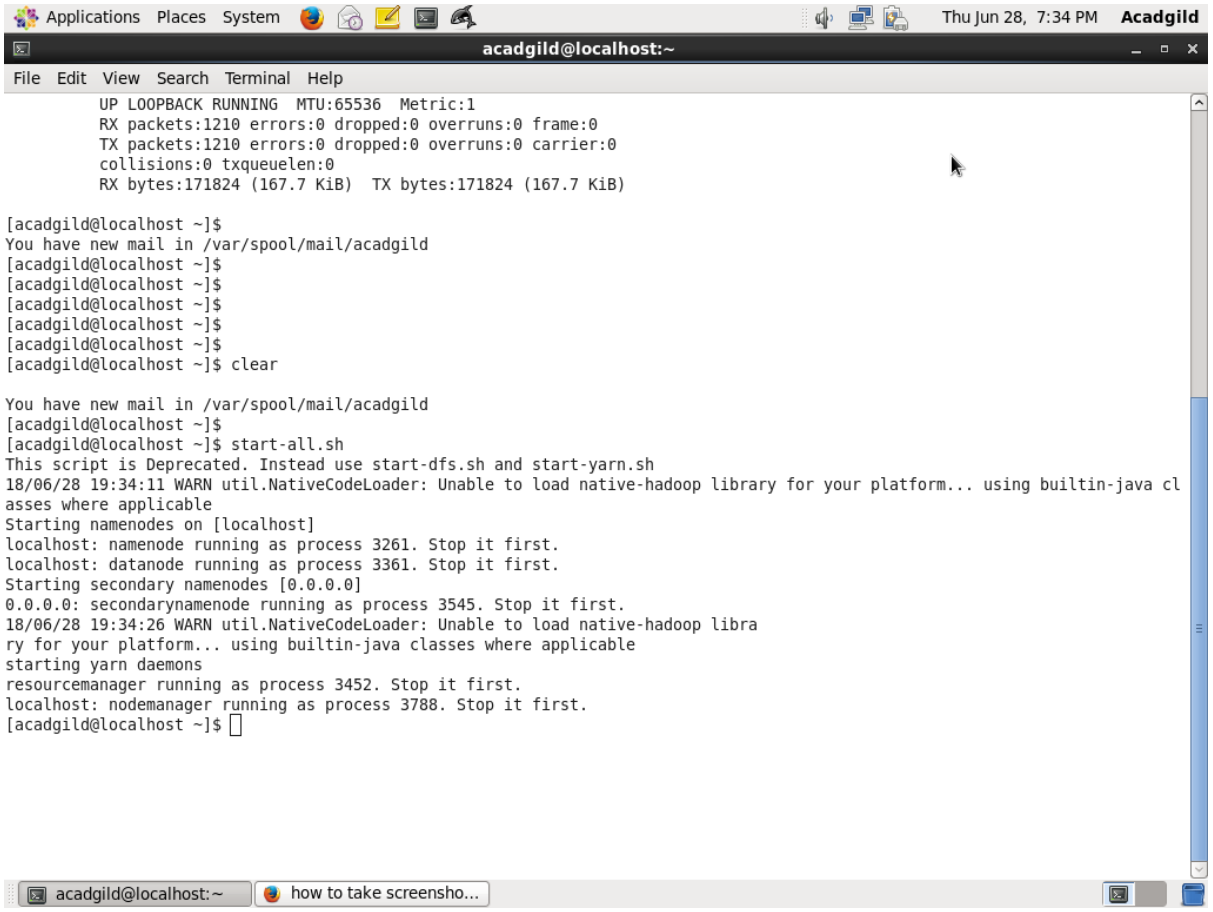
Assignment 1.1

This assignment includes the following tasks:

1) Start Hadoop single node on AcadGild VM.

   We will use *start-all.sh* command to start the Hadoop Single node(See Attached).

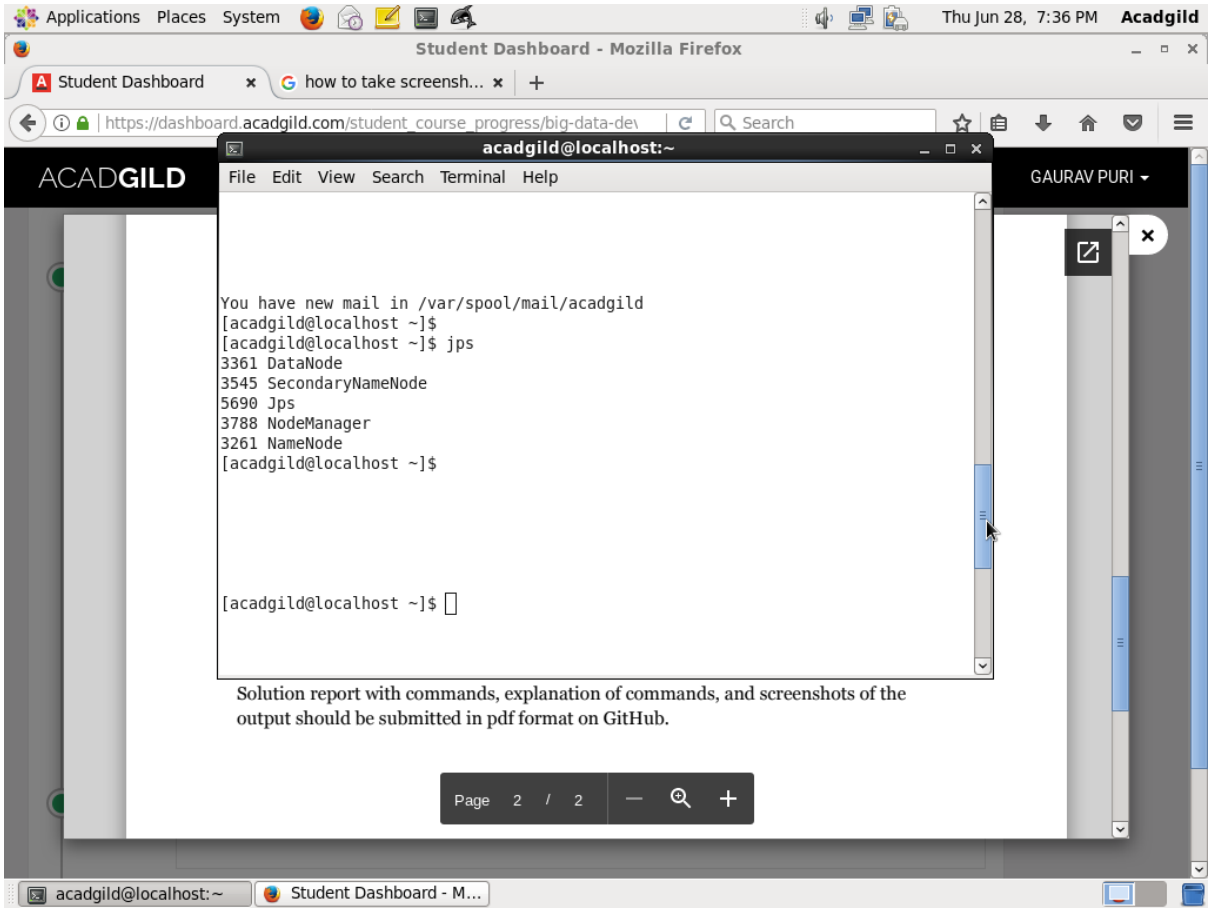
   Command: *start-all.sh*



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

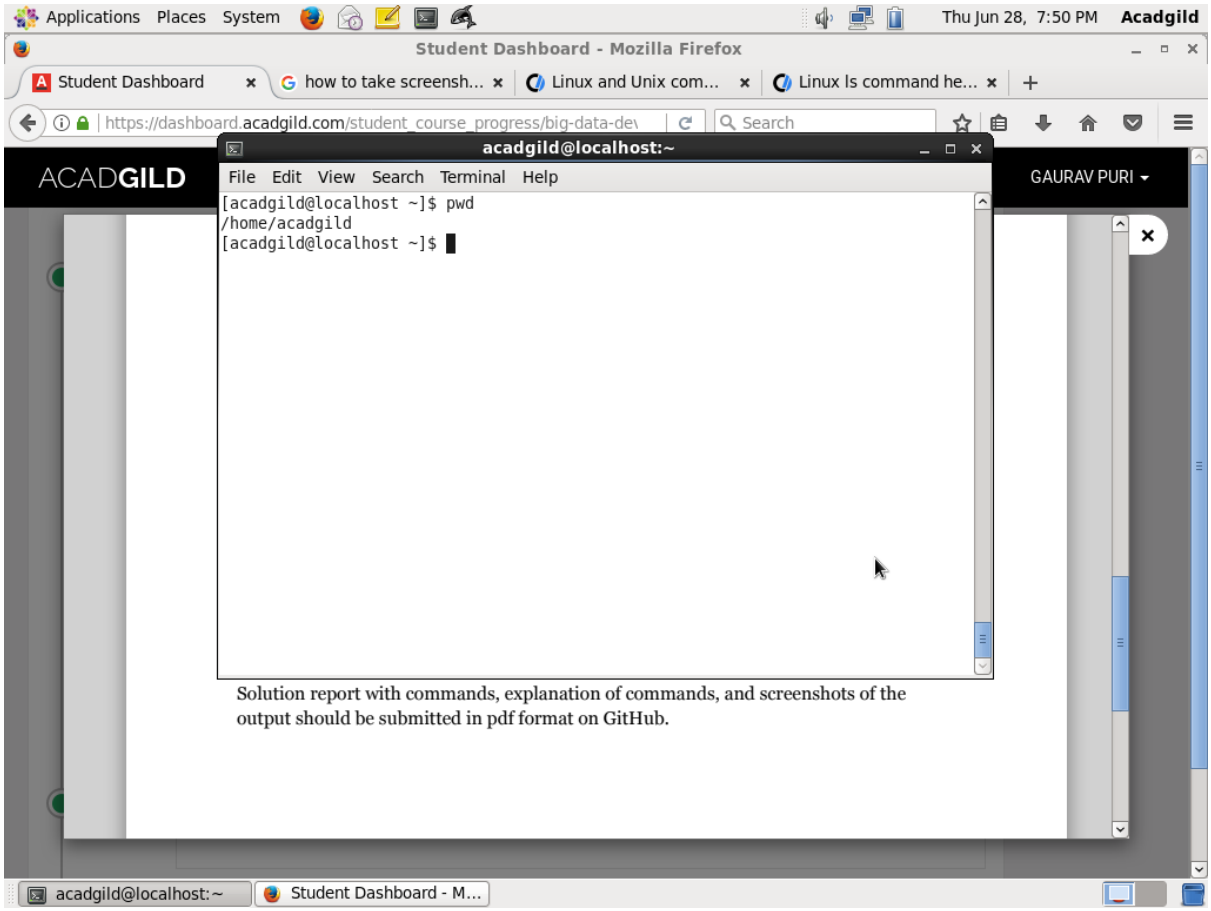
   We will use *JPS* command to see the running Hadoop daemons. JPS which means Java Process Status which is used to list all the processes that are running on Java Virtual Machine(See Attached).

   Command: *jps*

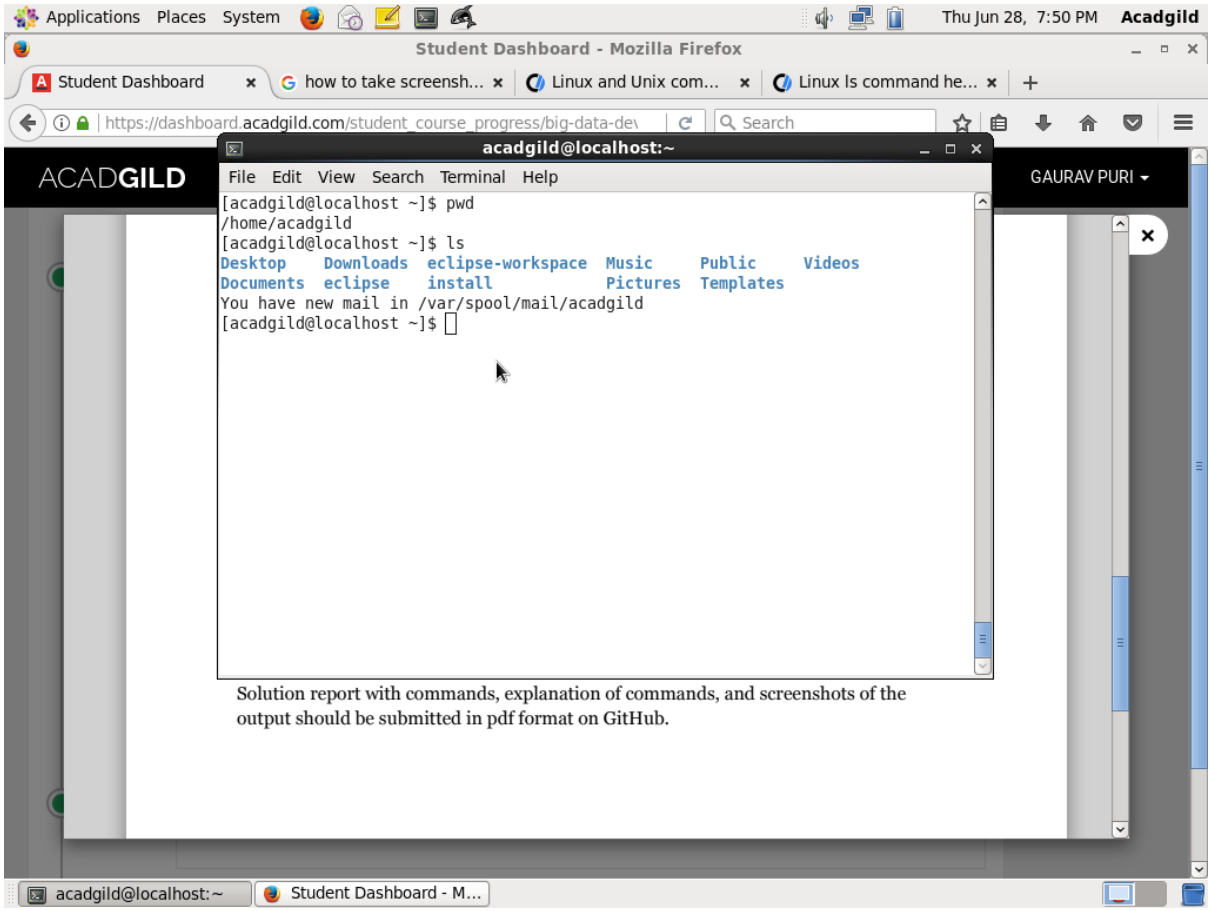


3) Run few Unix commands like pwd, ls -ls, etc.
The Commands which we used here is *pwd, ls, cd* etc.

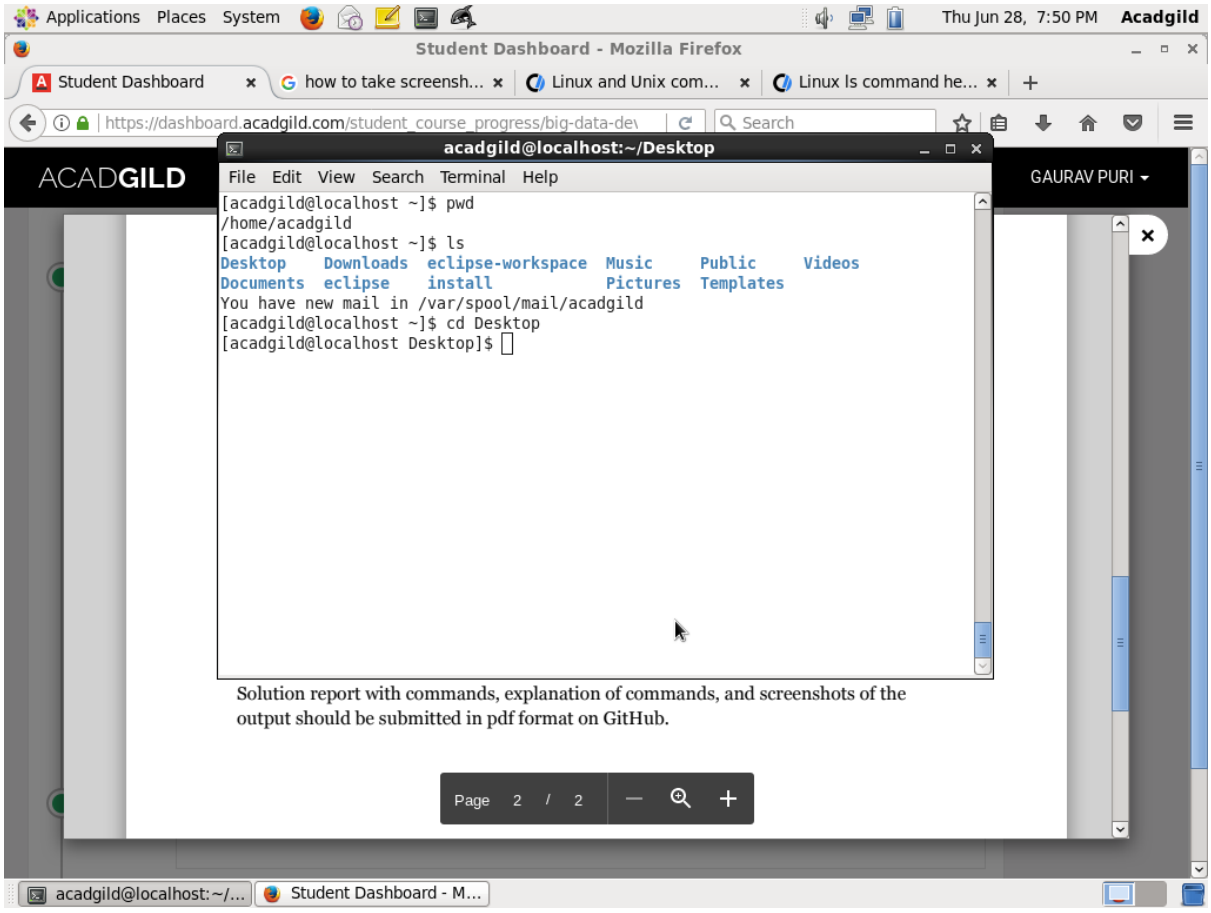
- *Pwd*: This command is basically used to know which directory we are in. It gives us the absolute path, which means the path starts from root. The Root is the base of the linux file system. It is denoted by forward slash(/). My directory is like "/home/acadgild" (See Attached).

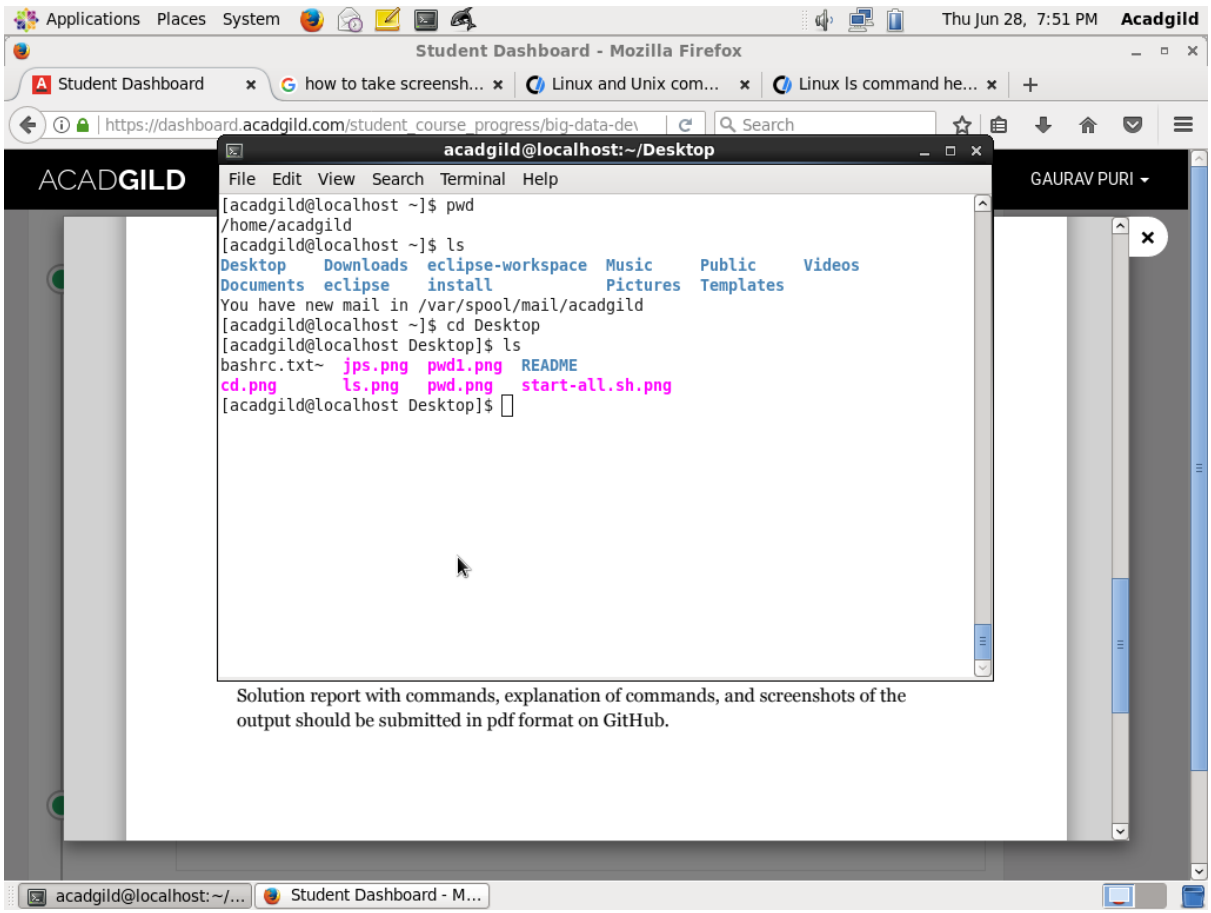


- *Ls*: This command is basically used to see the list of files in that particular directory (See Attached).



- *Cd*: This command is used to change the directory or we can say that to go to other directory(See Attached).


Applications Places System
Thu Jun 28, 7:50 PM Acadgild
Student Dashboard - Mozilla Firefox
Student Dashboard
how to take screensh...
Linux and Unix com...
Linux ls command he...
https://dashboard.acadgild.com/student_course_progress/big-data-de\
Search
ACADGILD
GAURAV PURI
acadgild@localhost:~/Desktop
File Edit View Search Terminal Help
[acadgild@localhost ~]$ pwd
/home/acadgild
[acadgild@localhost ~]$ ls
Desktop Downloads eclipse-workspace Music Public Videos
Documents eclipse install Pictures Templates
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cd Desktop
[acadgild@localhost Desktop]$
Solution report with commands, explanation of commands, and screenshots of the output should be submitted in pdf format on GitHub.
Page 2 / 2
acadgild@localhost:~/...
Student Dashboard - M...

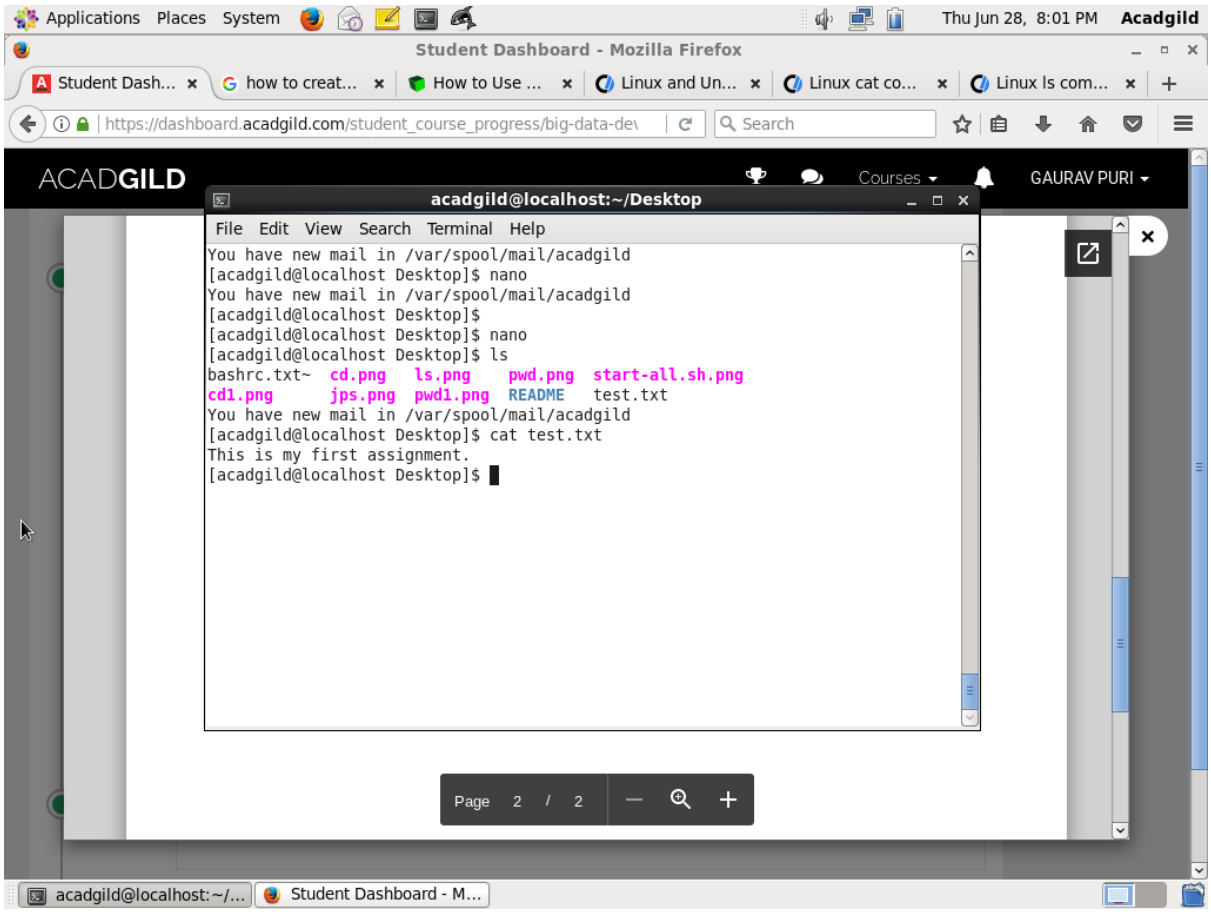

Applications Places System
Thu Jun 28, 7:51 PM Acadgild
Student Dashboard - Mozilla Firefox
Student Dashboard
how to take screensh...
Linux and Unix com...
Linux ls command he...
https://dashboard.acadgild.com/student_course_progress/big-data-de\
Search
ACADGILD
GAURAV PURI
acadgild@localhost:~/Desktop
File Edit View Search Terminal Help
[acadgild@localhost ~]$ pwd
/home/acadgild
[acadgild@localhost ~]$ ls
Desktop Downloads eclipse-workspace Music Public Videos
Documents eclipse install Pictures Templates
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cd Desktop
[acadgild@localhost Desktop]$ ls
bashrc.txt~ jps.png pwd1.png README
cd.png ls.png pwd.png start-all.sh.png
[acadgild@localhost Desktop]$
Solution report with commands, explanation of commands, and screenshots of the output should be submitted in pdf format on GitHub.
acadgild@localhost:~/...
Student Dashboard - M...

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.

The *nano* command is a good text editor which denotes the keywords with color. We will use it to create the files as well as edit it. We have make one file named as test.txt with nano.

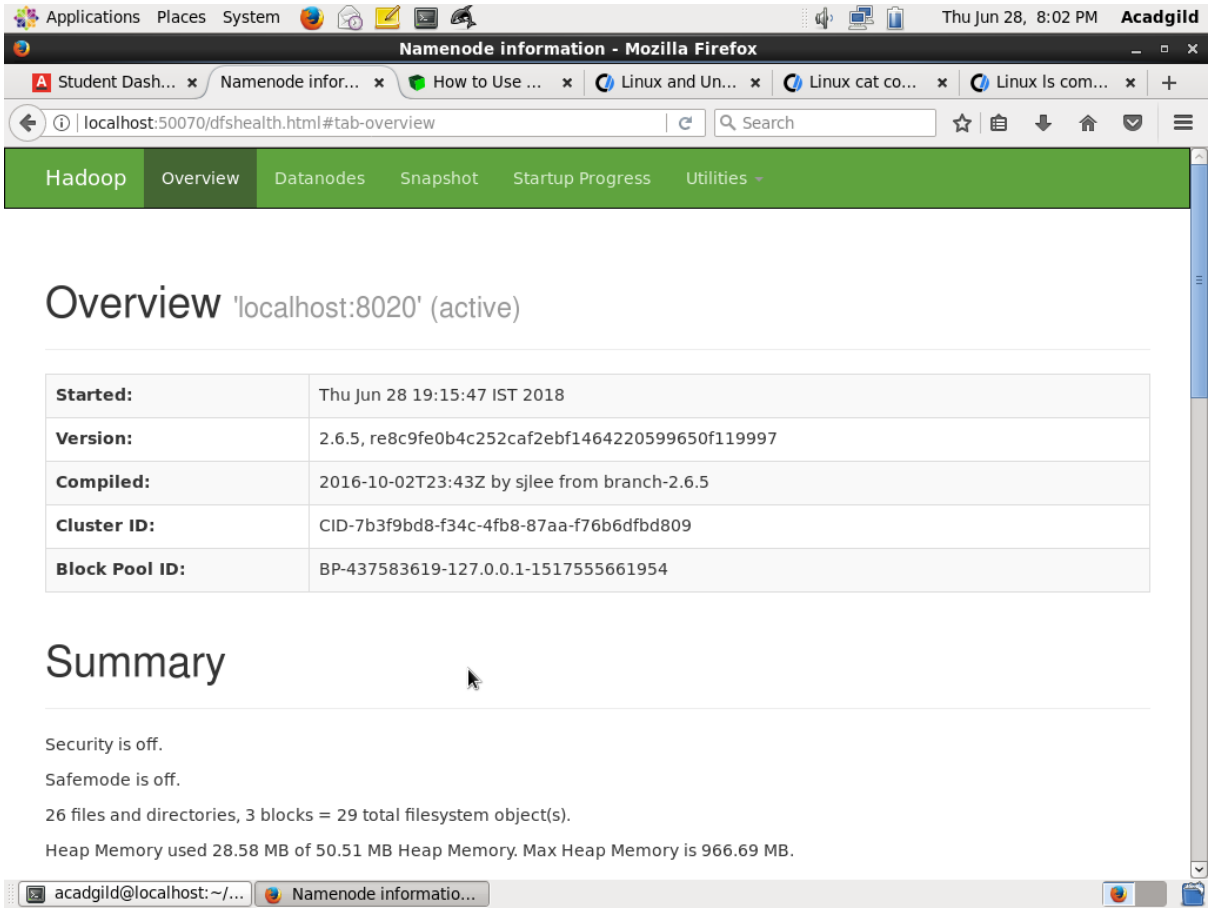
Command: *nano* (To open the new file and add the text we want then save it.)

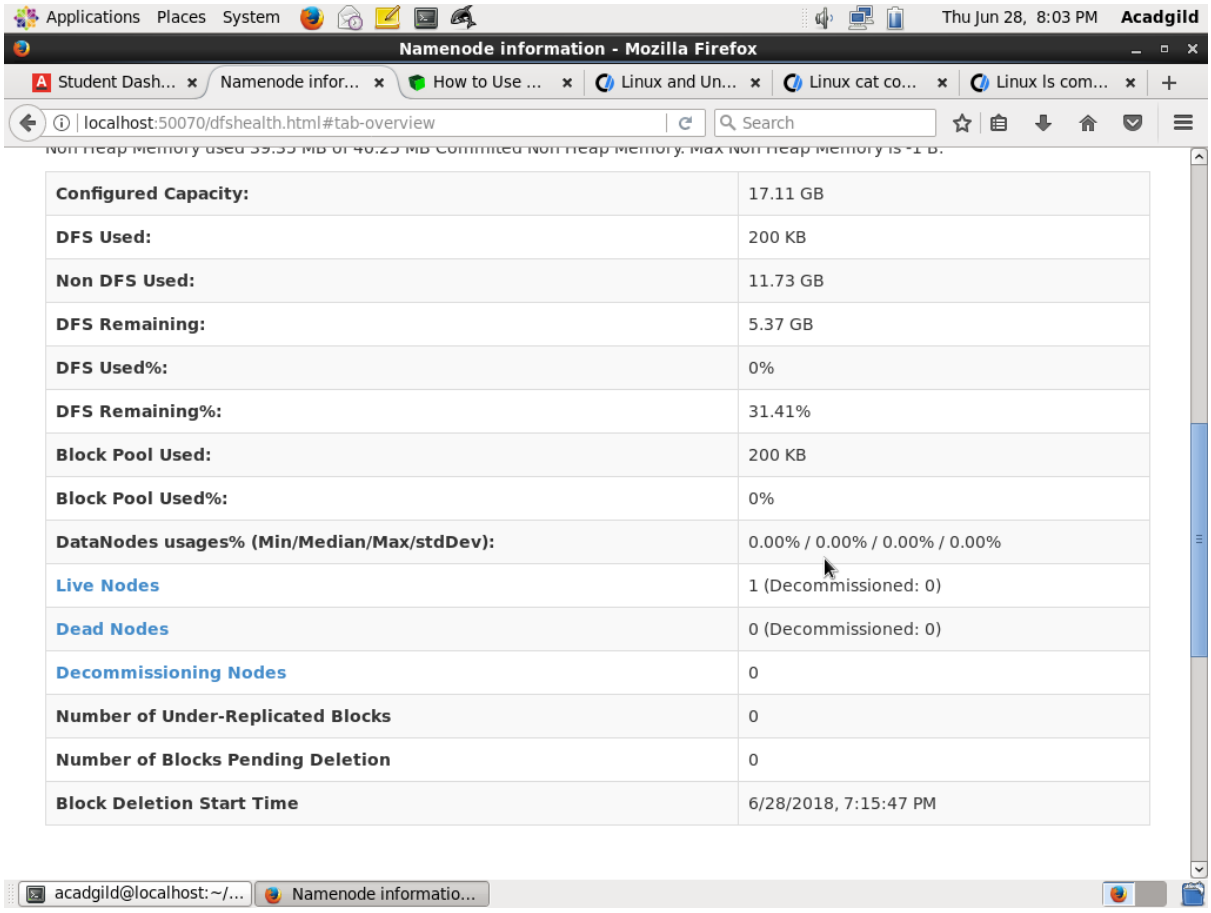
Cat: To see the content of the file in CMD.



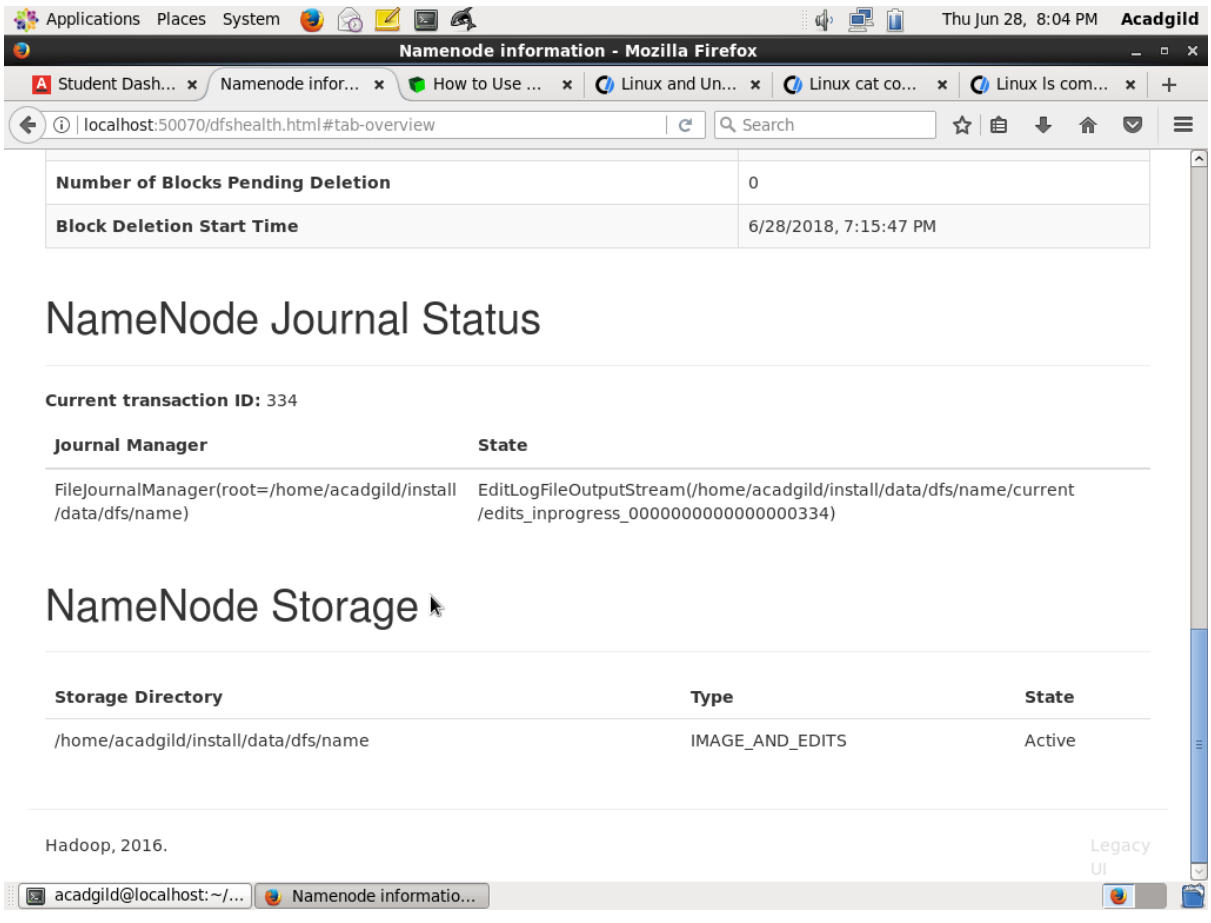
5) Open the hdfs web page by typing localhost:50070 in the browser. Check all the details of the HDFS.

- Overview of HDFS.


Applications Places System
Thu Jun 28, 8:02 PM Acadgild
Namenode information - Mozilla Firefox
Student Dash...
Namenode infor...
How to Use ...
Linux and Un...
Linux cat co...
Linux ls com...
localhost:50070/dfshealth.html#tab-overview
Search
Hadoop
Overview
Datanodes
Snapshot
Startup Progress
Utilities
Overview 'localhost:8020' (active)
Started: Thu Jun 28 19:15:47 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.
26 files and directories, 3 blocks = 29 total filesystem object(s).
Heap Memory used 28.58 MB of 50.51 MB Heap Memory. Max Heap Memory is 966.69 MB.
acadgild@localhost:~/...
Namenode informatio...



Configured Capacity:	17.11 GB
DFS Used:	200 KB
Non DFS Used:	11.73 GB
DFS Remaining:	5.37 GB
DFS Used%:	0%
DFS Remaining%:	31.41%
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
Number of Under-Replicated Blocks	0
Number of Blocks Pending Deletion	0
Block Deletion Start Time	6/28/2018, 7:15:47 PM



Number of Blocks Pending Deletion	0
Block Deletion Start Time	6/28/2018, 7:15:47 PM

NameNode Journal Status

Current transaction ID: 334

Journal Manager	State
FileJournalManager(root=/home/acadgild/install/data/dfs/name)	EditLogFileOutputStream(/home/acadgild/install/data/dfs/name/current/edits_inprogress_0000000000000000334)

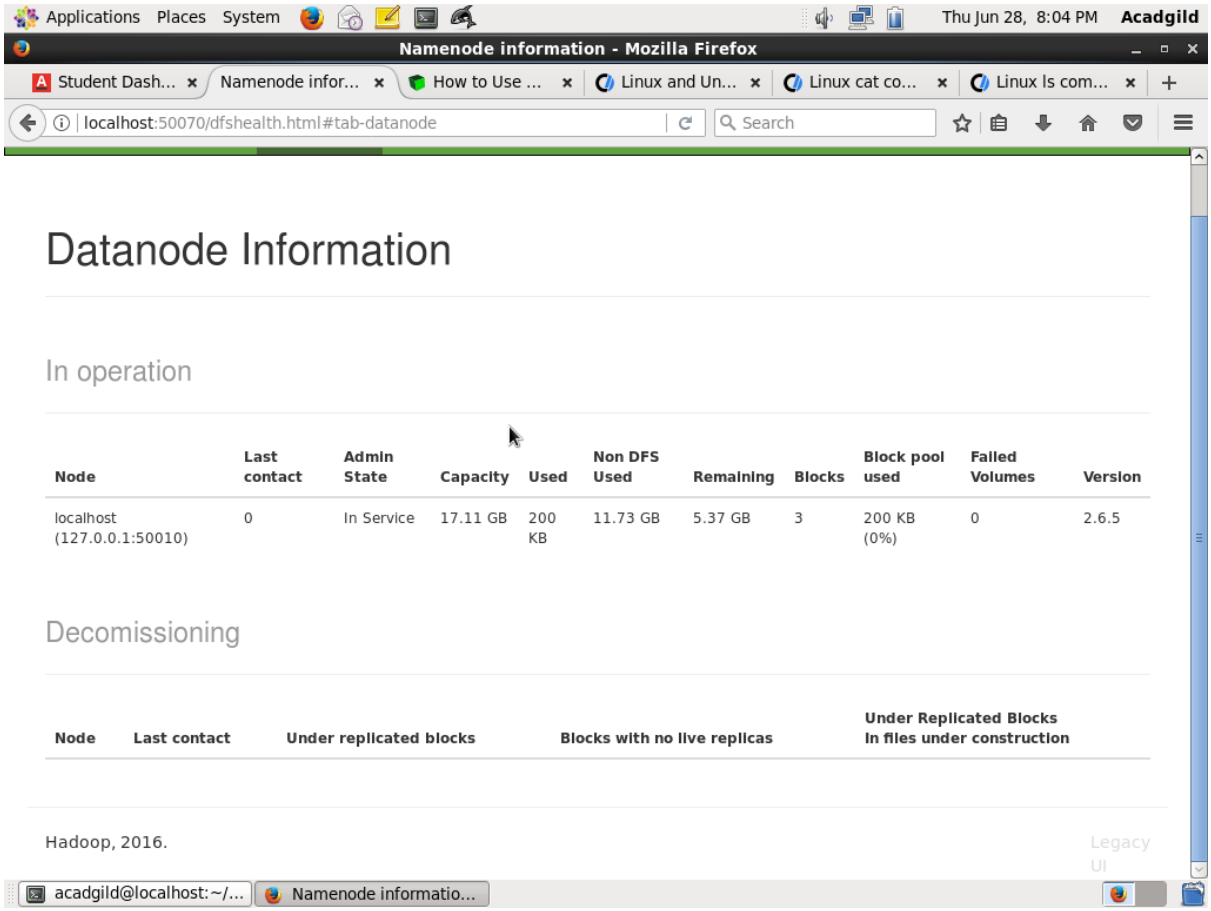
NameNode Storage

Storage Directory	Type	State
/home/acadgild/install/data/dfs/name	IMAGE_AND_EDITS	Active

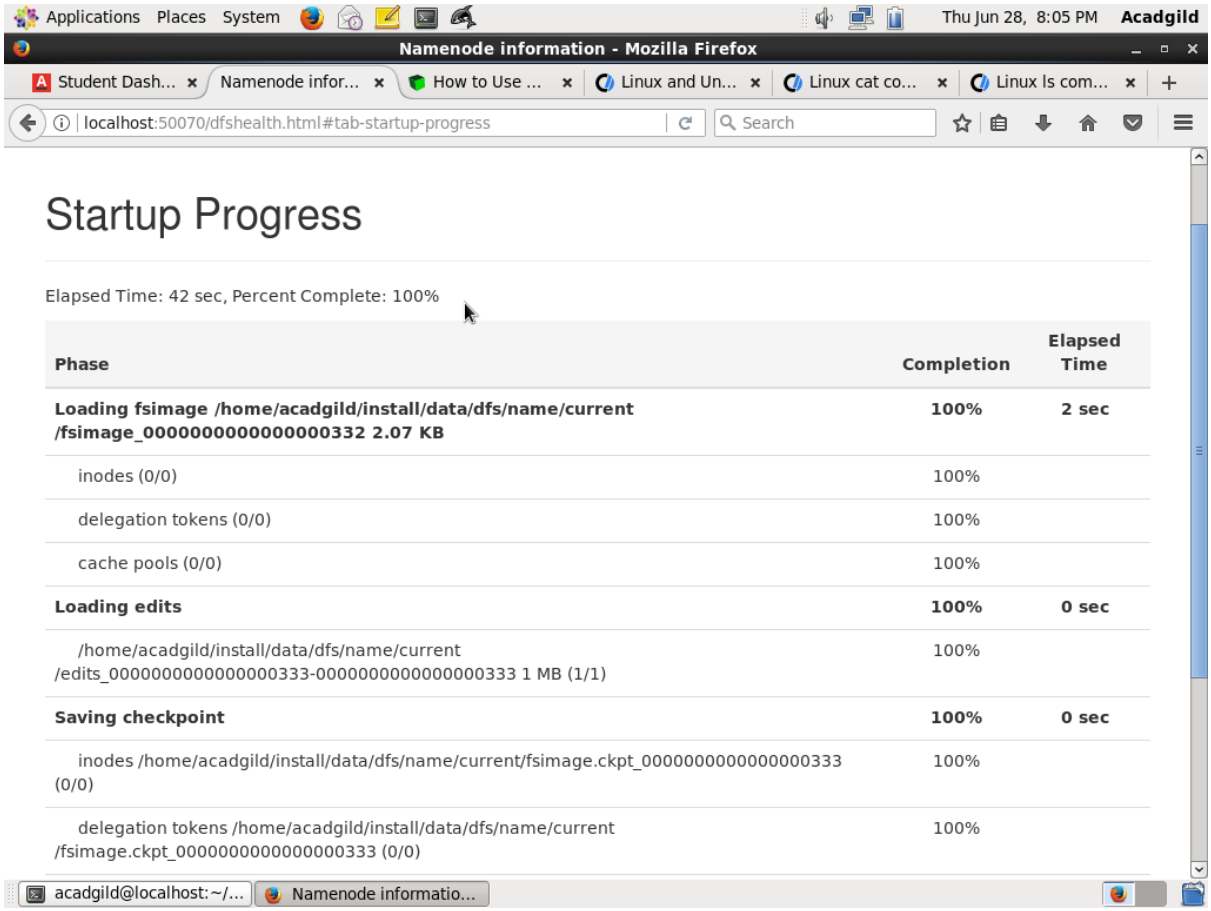
Hadoop, 2016.

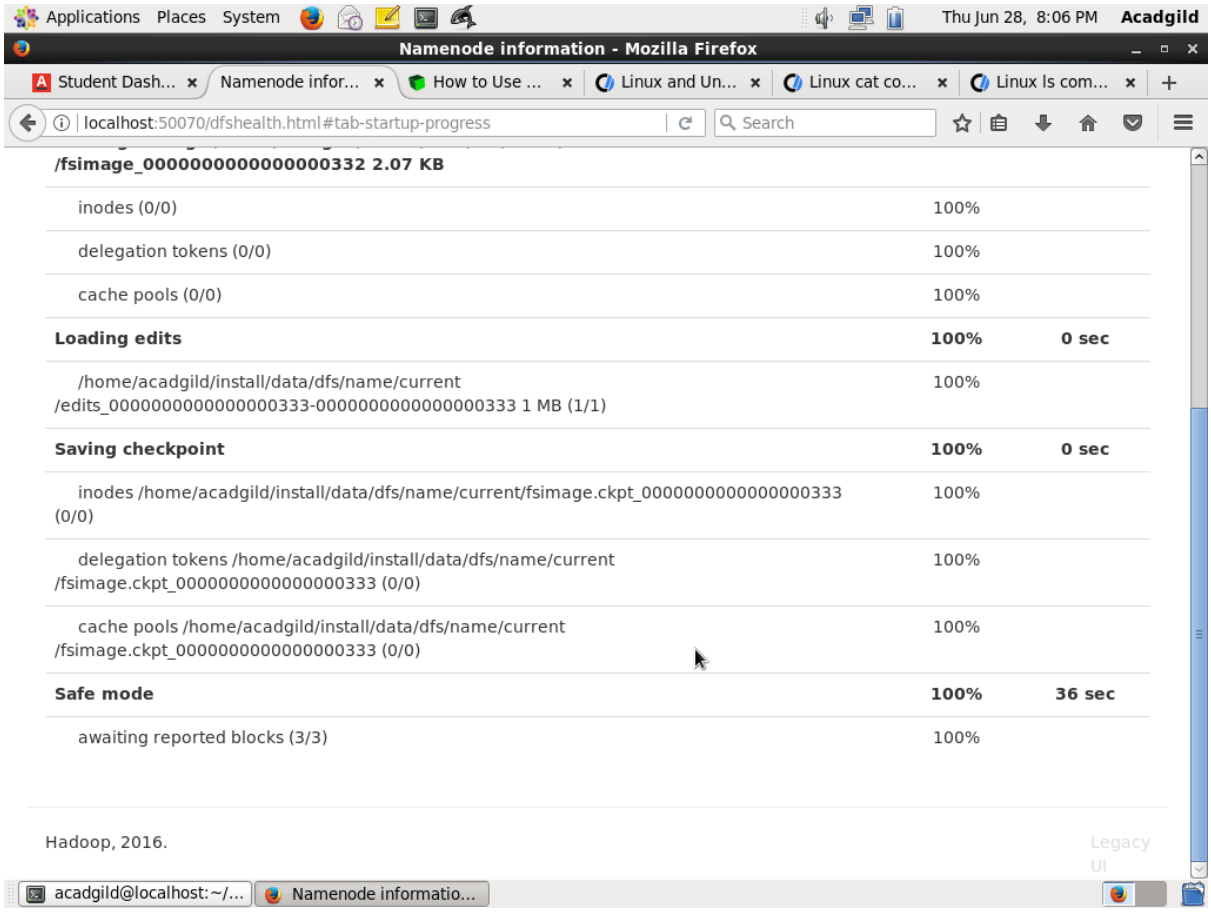
Legacy UI

- See the Datanodes:

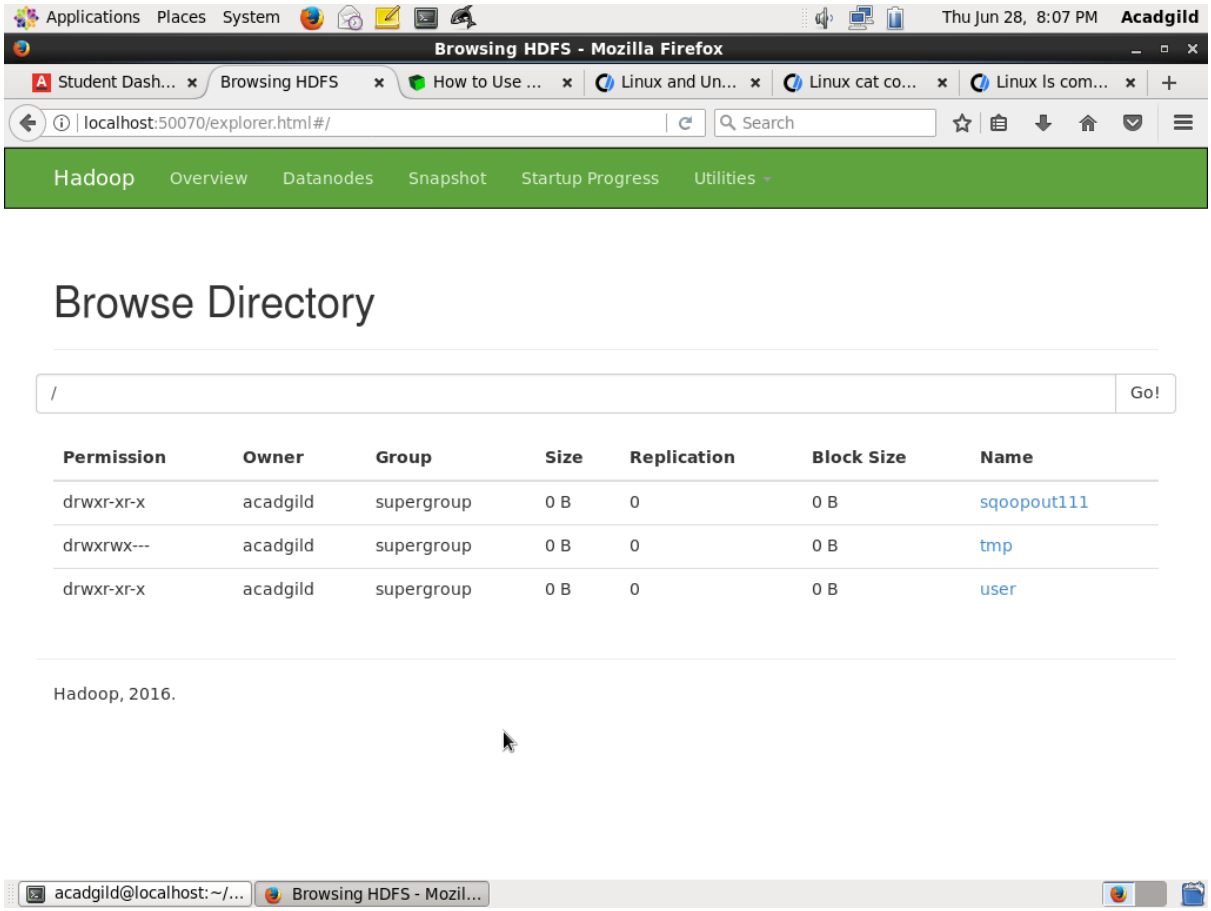


- See the Startup Progress.


Applications Places System
Thu Jun 28, 8:05 PM Acadgild
Namenode information - Mozilla Firefox
Student Dash...
Namenode infor...
How to Use ...
Linux and Un...
Linux cat co...
Linux ls com...
localhost:50070/dfshealth.html#tab-startup-progress
Search
Startup Progress
Elapsed Time: 42 sec, Percent Complete: 100%
Phase
Completion
Elapsed Time
Loading fsimage /home/acadgild/install/data/dfs/name/current /fsimage_0000000000000000332 2.07 KB
100%
2 sec
inodes (0/0)
100%
delegation tokens (0/0)
100%
cache pools (0/0)
100%
Loading edits
100%
0 sec
/home/acadgild/install/data/dfs/name/current /edits_0000000000000000333-0000000000000000333 1 MB (1/1)
100%
Saving checkpoint
100%
0 sec
inodes /home/acadgild/install/data/dfs/name/current/fsimage.ckpt_0000000000000000333 (0/0)
100%
delegation tokens /home/acadgild/install/data/dfs/name/current /fsimage.ckpt_0000000000000000333 (0/0)
100%
acadgild@localhost:~/...
Namenode informatio...



- Browse the HDFS Directory.


Applications Places System
Thu Jun 28, 8:07 PM Acadgild
Browsing HDFS - Mozilla Firefox
Student Dash...
Browsing HDFS
How to Use ...
Linux and Un...
Linux cat co...
Linux ls com...
localhost:50070/explorer.html#/
Search
Hadoop
Overview
Datanodes
Snapshot
Startup Progress
Utilities
Browse Directory
/
Go!
Permission
Owner
Group
Size
Replication
Block Size
Name
drwxr-xr-x
acadgild
supergroup
0 B
0
0 B
sqoopout111
drwxrwx---
acadgild
supergroup
0 B
0
0 B
tmp
drwxr-xr-x
acadgild
supergroup
0 B
0
0 B
user
Hadoop, 2016.
acadgild@localhost:~/...
Browsing HDFS - Mozil...