

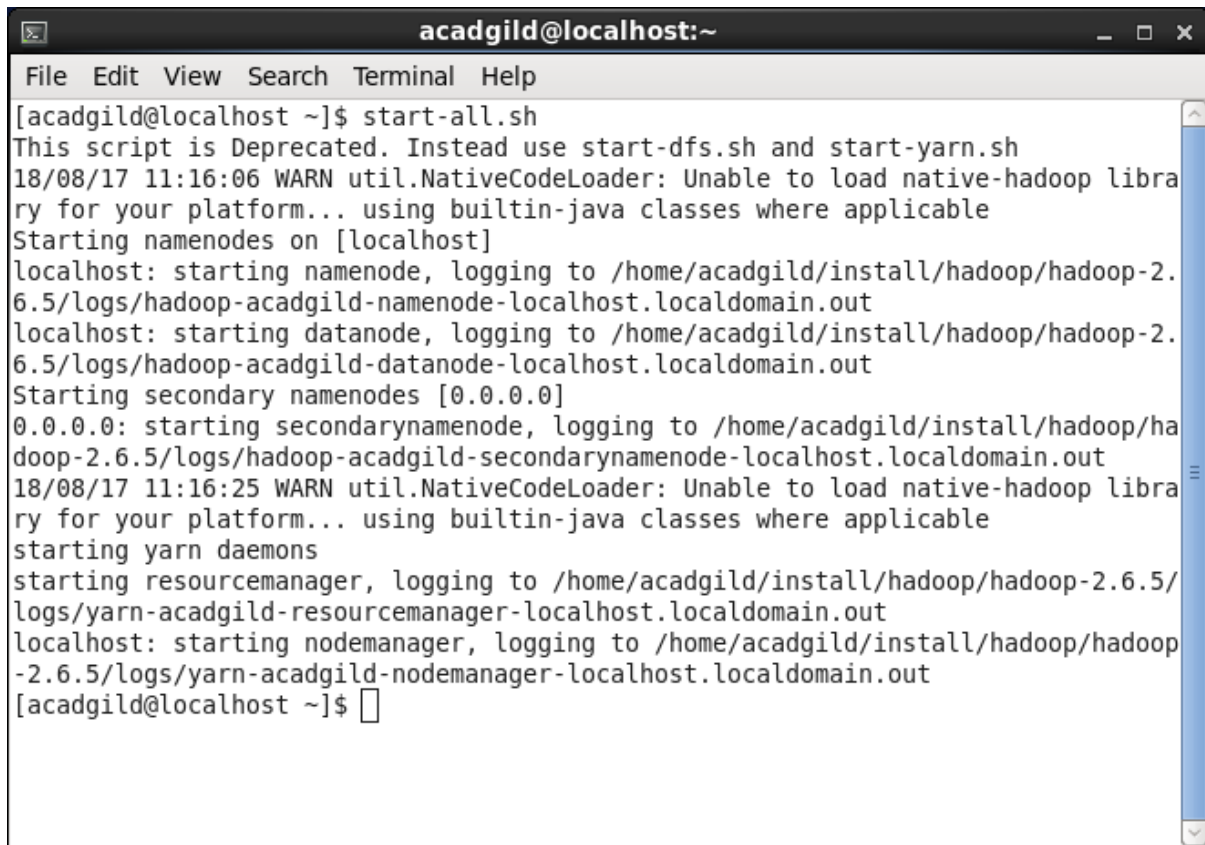
## ASSIGNMENT 1.1

(By Shivam Mall)

### Ques1.) Start Hadoop single node on AcadGild VM.

**Ans-** To start Hadoop single node on AcadGild VM, the command is “start-all.sh”. This command is used to Starts all Hadoop daemons i.e, the name node, data nodes, the job tracker and the task trackers.

### OUTPUT:-

A terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the command '[acadgild@localhost ~]\$ start-all.sh' and its output. The output includes a deprecation warning, log messages for starting namenodes, datanodes, and secondary namenodes, and messages for starting yarn daemons (resourcemanager and nodemanager). The terminal ends with the prompt '[acadgild@localhost ~]\$' and a cursor.

```
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  
18/08/17 11:16:06 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  
18/08/17 11:16:25 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  
[acadgild@localhost ~]$
```

Fig.1

**Ques2.) Run a JPS command to see if all Hadoop daemons are running.**

**Ans-** JPS (Java Virtual Machine Process Status Tool) or Java Processor is a command which is used to check all the Hadoop daemons like Name Node, Data Node, Resource Manager, Node Manager etc. which are running on the machine.

**OUTPUT:-**

A terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the command '[acadgild@localhost ~]\$ jps' being entered. The output is '2977 Jps'. Below this, a system message reads 'You have new mail in /var/spool/mail/acadgild'. The prompt '[acadgild@localhost ~]\$' is followed by a cursor. A vertical scrollbar is visible on the right side of the terminal window.

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ jps  
2977 Jps  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$
```

Fig.2.1

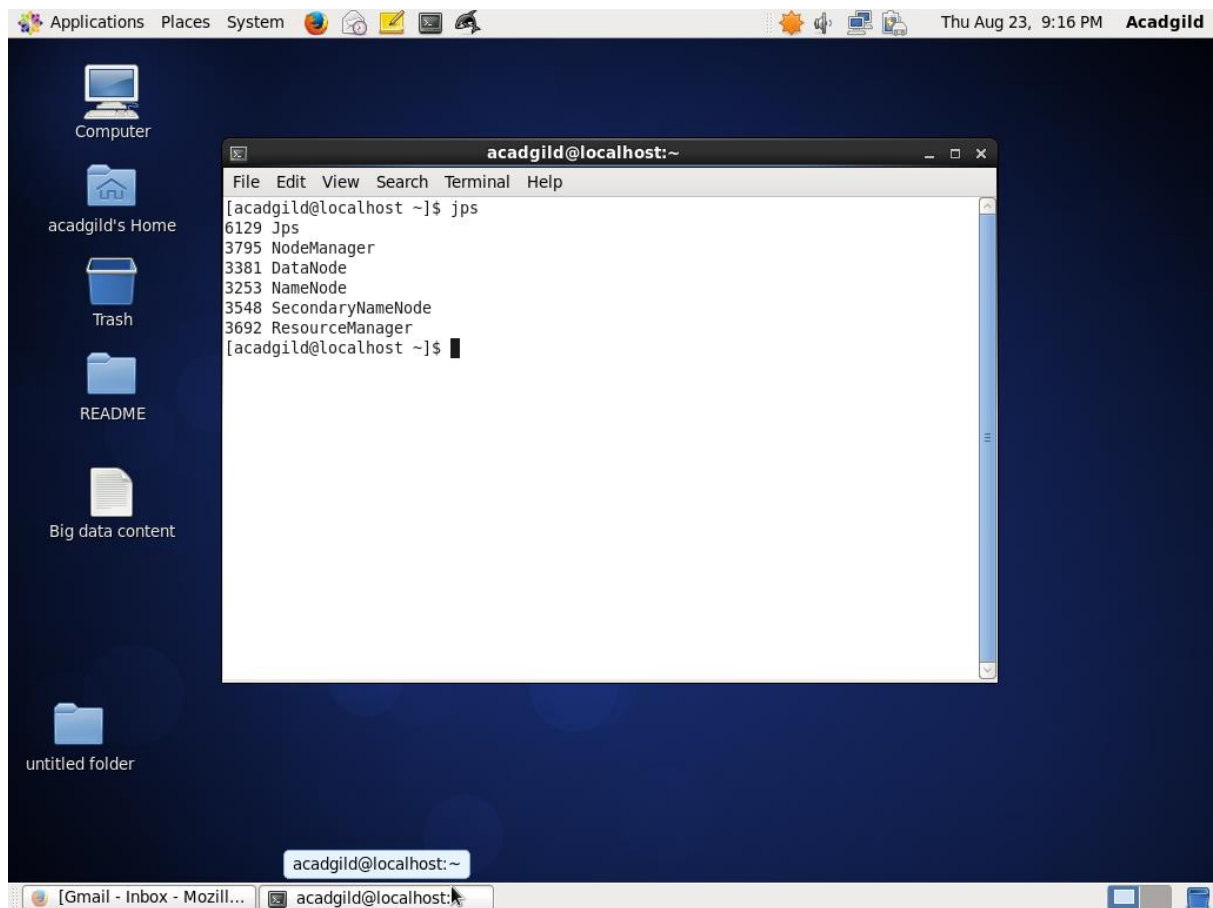


Fig.2.2

**Ques 3.) Run few UNIX command like pwd, ls –ls, etc.**

**Ans-** PWD stands for “Print Working Directory”. It is the Unix-like command. PWD command writes the full path name of the current working directory to the standard output(fig.3.1).

Ls (List files) command helps to view details like file types, size, modified date and time, permission and links etc(fig.3.2).

**OUTPUT:-**

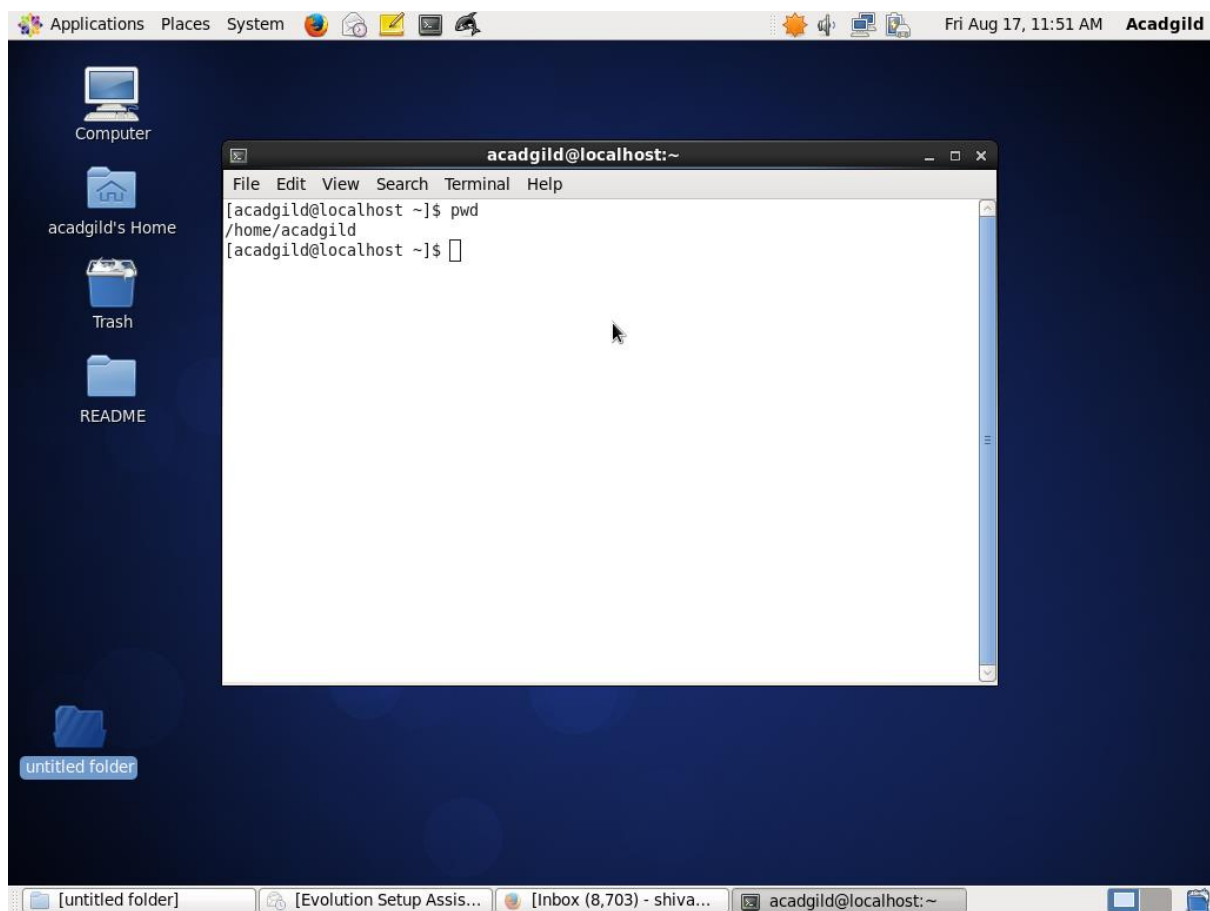


Fig. 3.1

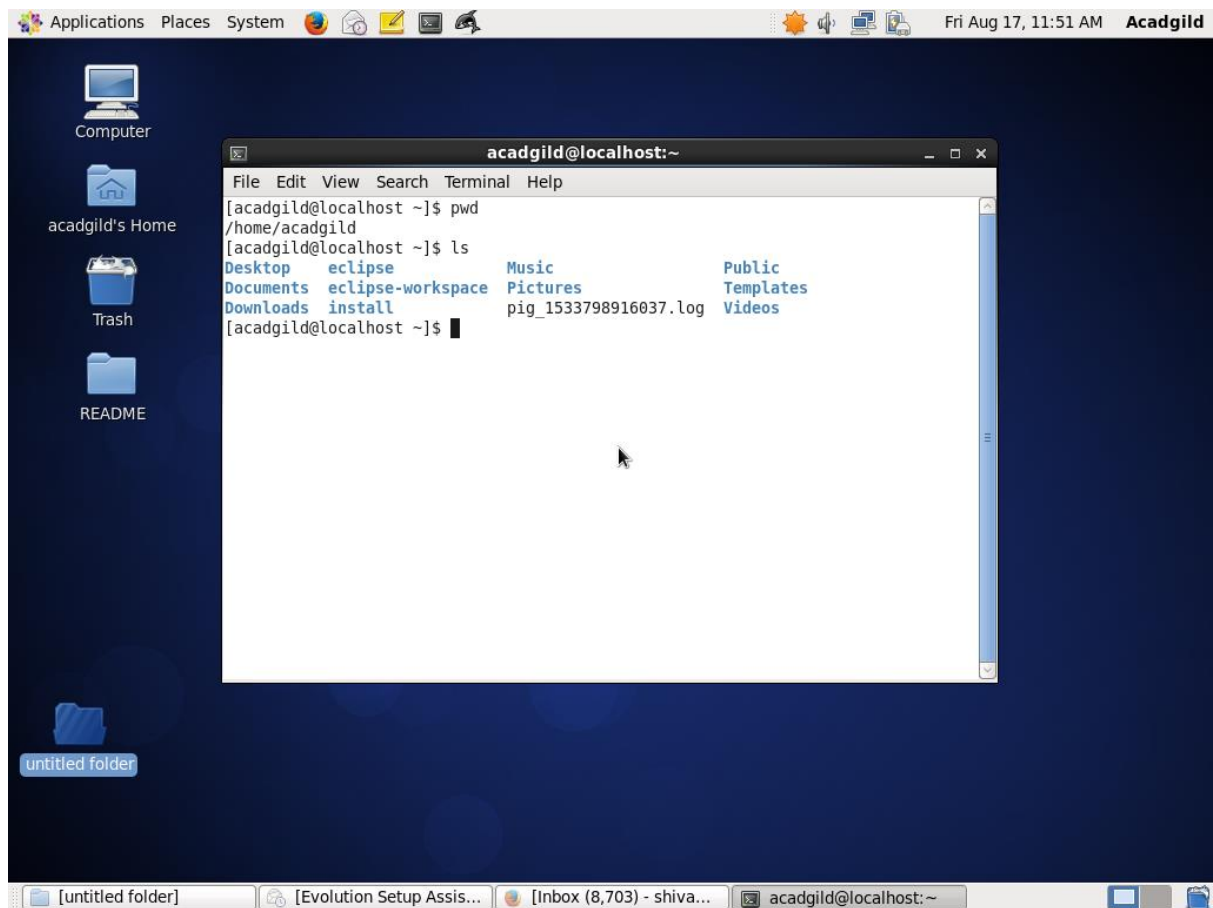


Fig.3.2

**Ques 4.) Create a file from the internal using nano editor (example: nano test.txt), and add some content in it. Cat it to see if the content is saved.**

**Ans-** Nano or GNU nano is a text editor for Unix-like computing systems or operating environments using a command line interface.

Cat is a command which helpsto see the content of any file.

### OUTPUT:-

```

acadgild@localhost:~
File Edit View Search Terminal Help
GNU nano 2.0.9 File: test.txt Modified

Big data is a term that describe the large volume od data-both structured
and unstrured-that inundates a business on a day-to-day basic. But it's not
the amount of data that's important. It's what organization do with the data
that matters. Big data can be analyzed for insights that lead to better
decisions and strategic business movies.

^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

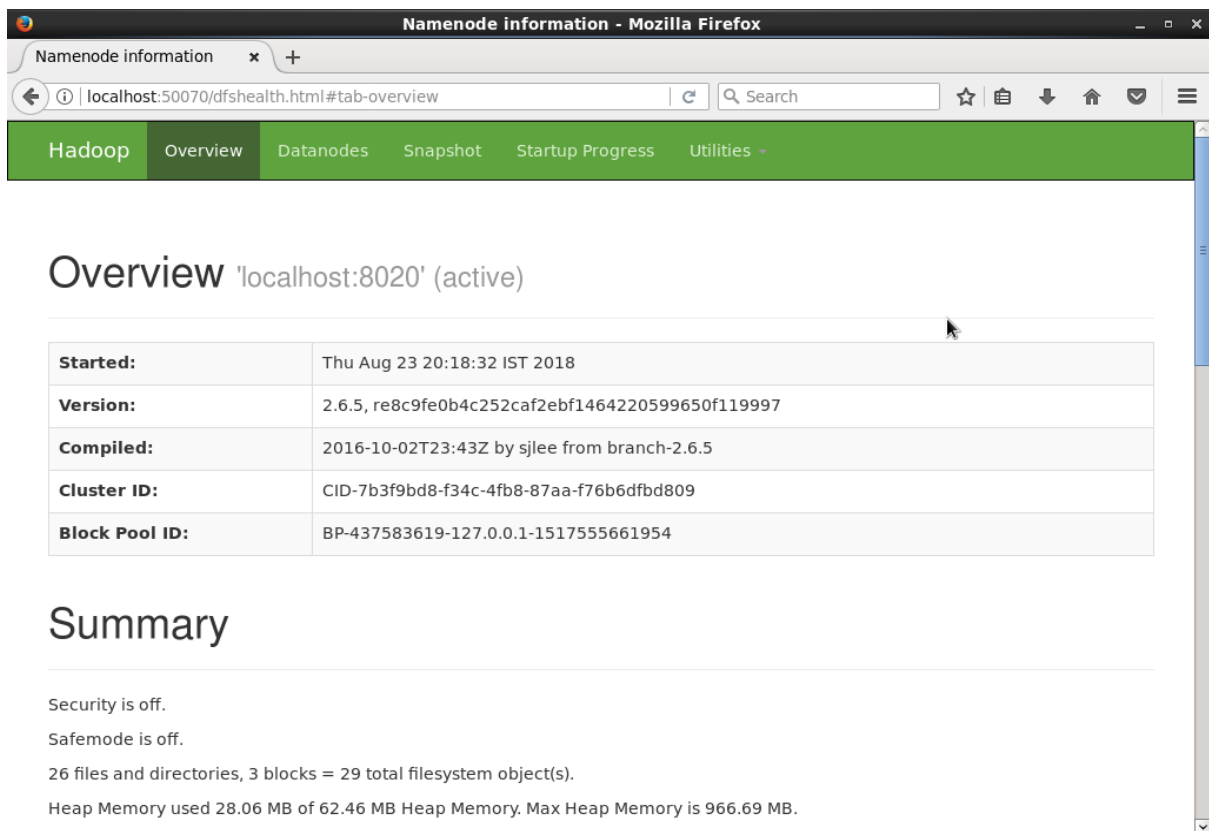
```

Fig. 4

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

**Ans-**

**OUTPUT:-**



The screenshot shows a Mozilla Firefox browser window titled "Namenode information - Mozilla Firefox". The address bar displays "localhost:50070/dfshealth.html#tab-overview". The browser's navigation bar includes a green "Hadoop" tab and a menu with "Overview", "Datanodes", "Snapshot", "Startup Progress", and "Utilities". The main content area is titled "Overview 'localhost:8020' (active)". It contains a table with the following details:

<b>Started:</b>	Thu Aug 23 20:18:32 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

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 28.06 MB of 62.46 MB Heap Memory. Max Heap Memory is 966.69 MB.

**Fig. 5.1**

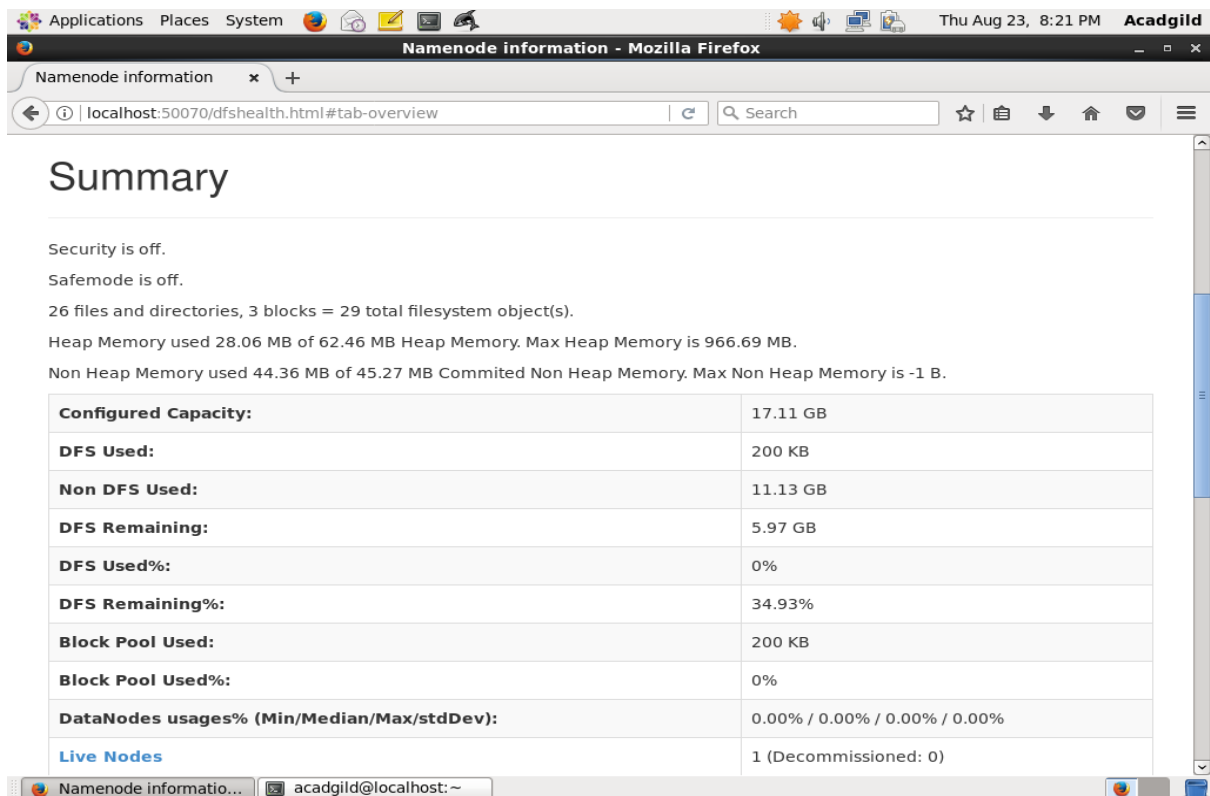


Fig. 5.2

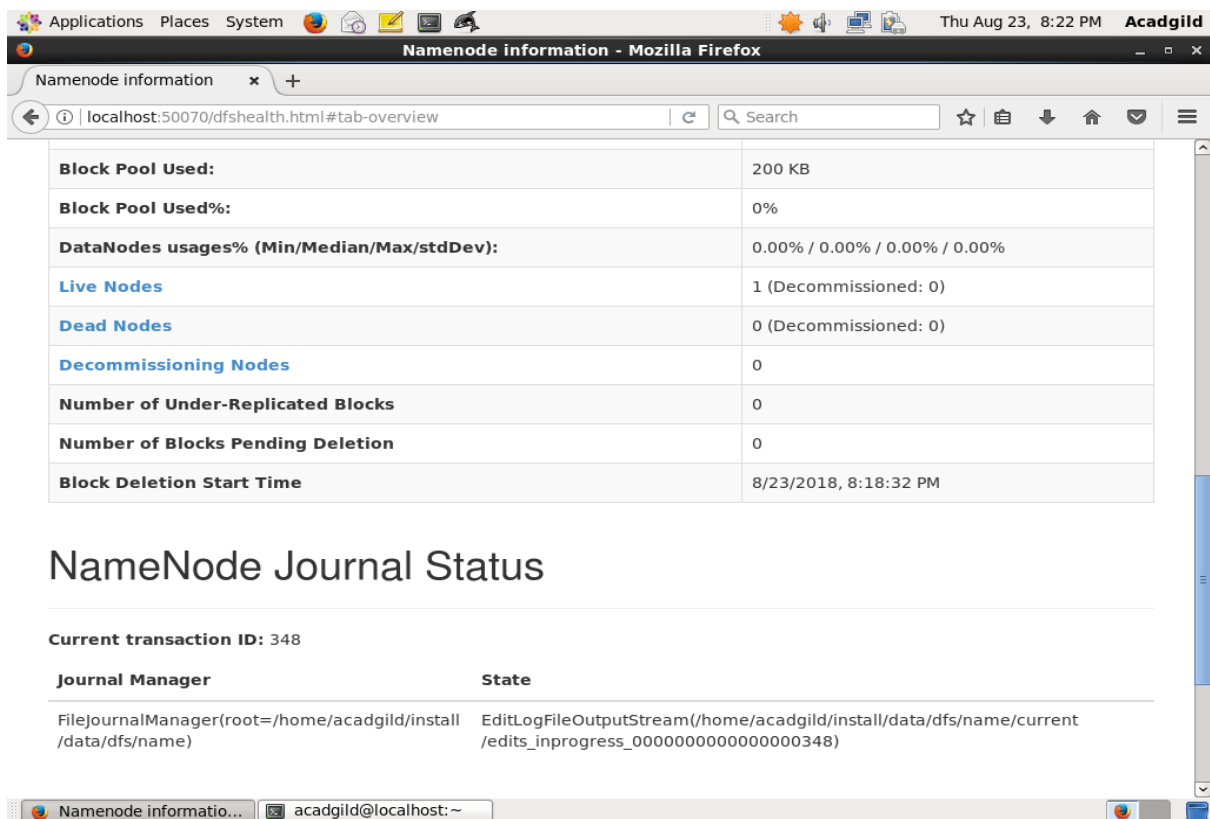


Fig. 5.3



