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

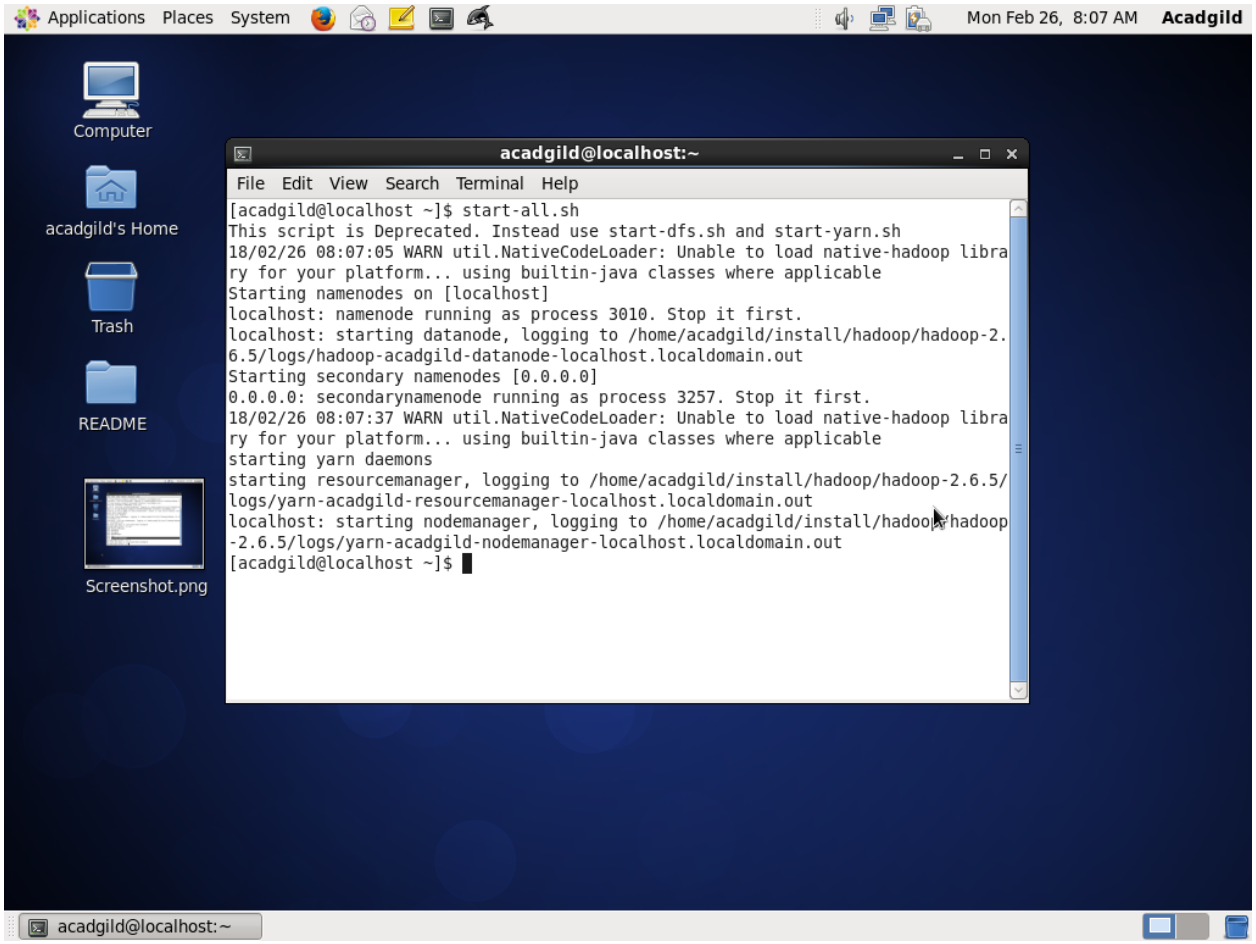
COMMAND:-

start-all.sh

EXPLANATION:-

Starts **all** Hadoop daemons, the namenode, datanodes, the jobtracker and tasktrackers.

OUTPUT:-



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

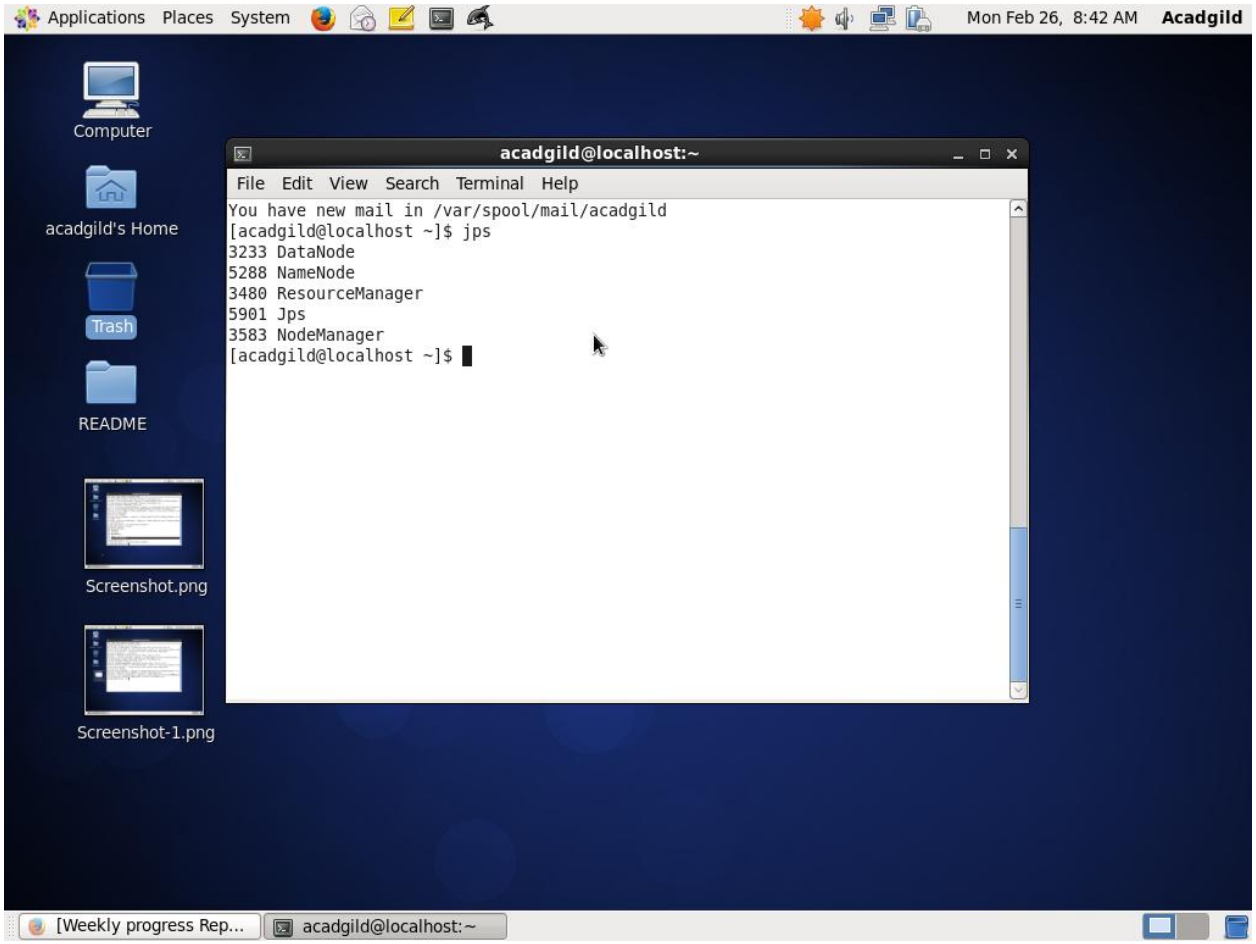
COMMAND:-

jps

EXPLANATION:-

jps command is used to check all the **Hadoop** daemons like NameNode, DataNode, ResourceManager, NodeManager etc. which are running on the machine.

OUTPUT:-



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

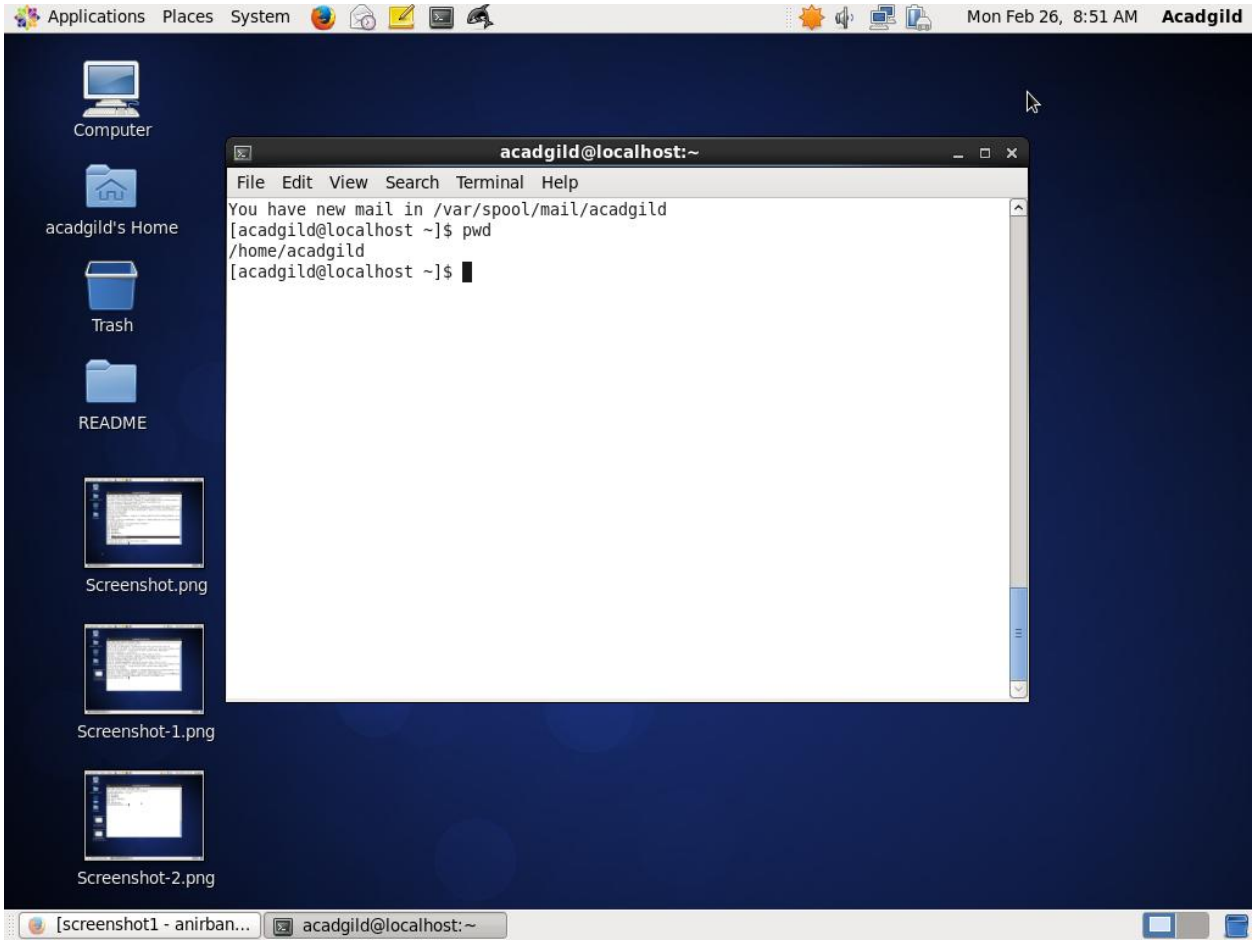
COMMAND:-

pwd

EXPLANATION:-

In **Unix**-like operating systems, the **pwd** command writes the full pathname of the current working directory to the standard output.

OUTPUT:-



COMMAND:-

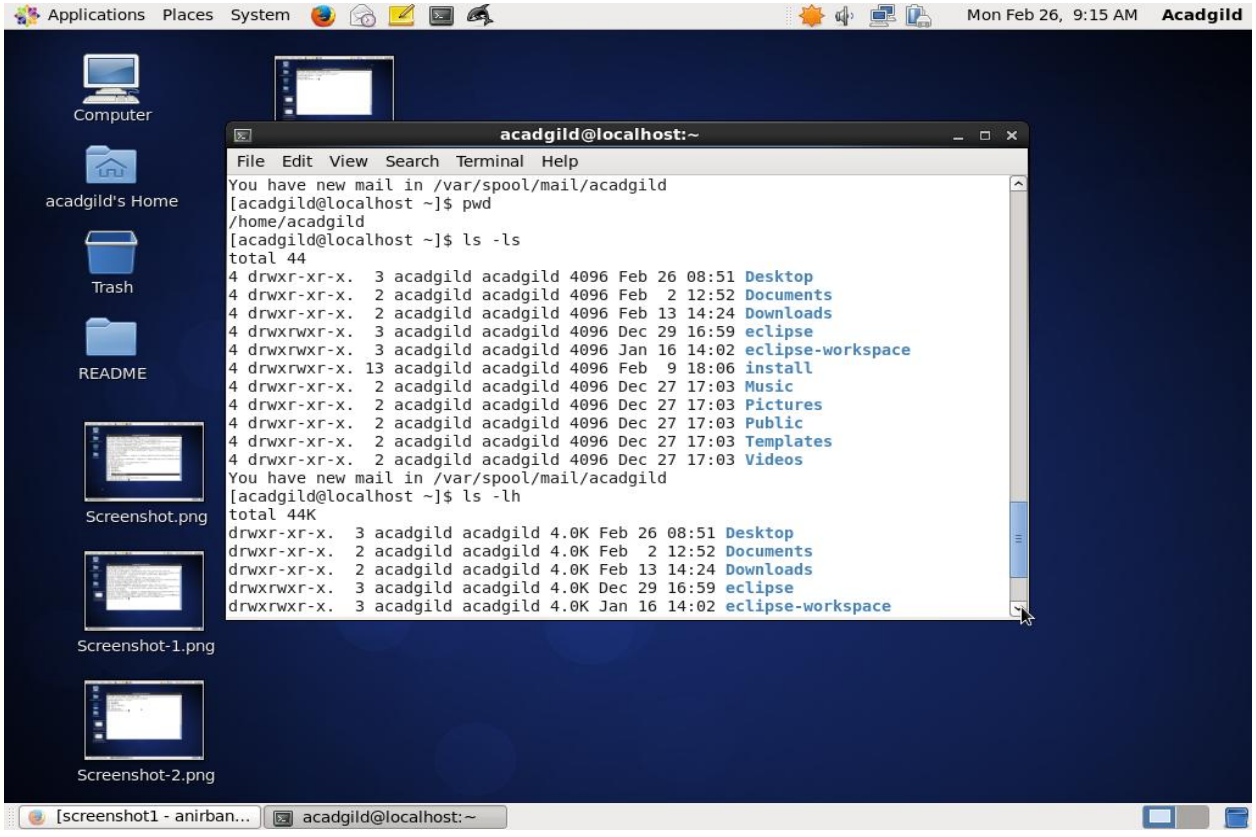
ls -lh, ls -ls, ls -r, ls -R, ls -s, ls -S, ls -t, ls -X etc.

EXPLANATION:-

ls is a Linux shell command that lists directory contents of files and directories.

`ls -lh`	list long format with readable file size
`ls -ls`	list with long format with file size
`ls -r`	list in reverse order
`ls -R`	list recursively directory tree
`ls -s`	list file size
`ls -S`	sort by file size
`ls -t`	sort by time & date
`ls -X`	sort by extension name

OUTPUT:-



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.

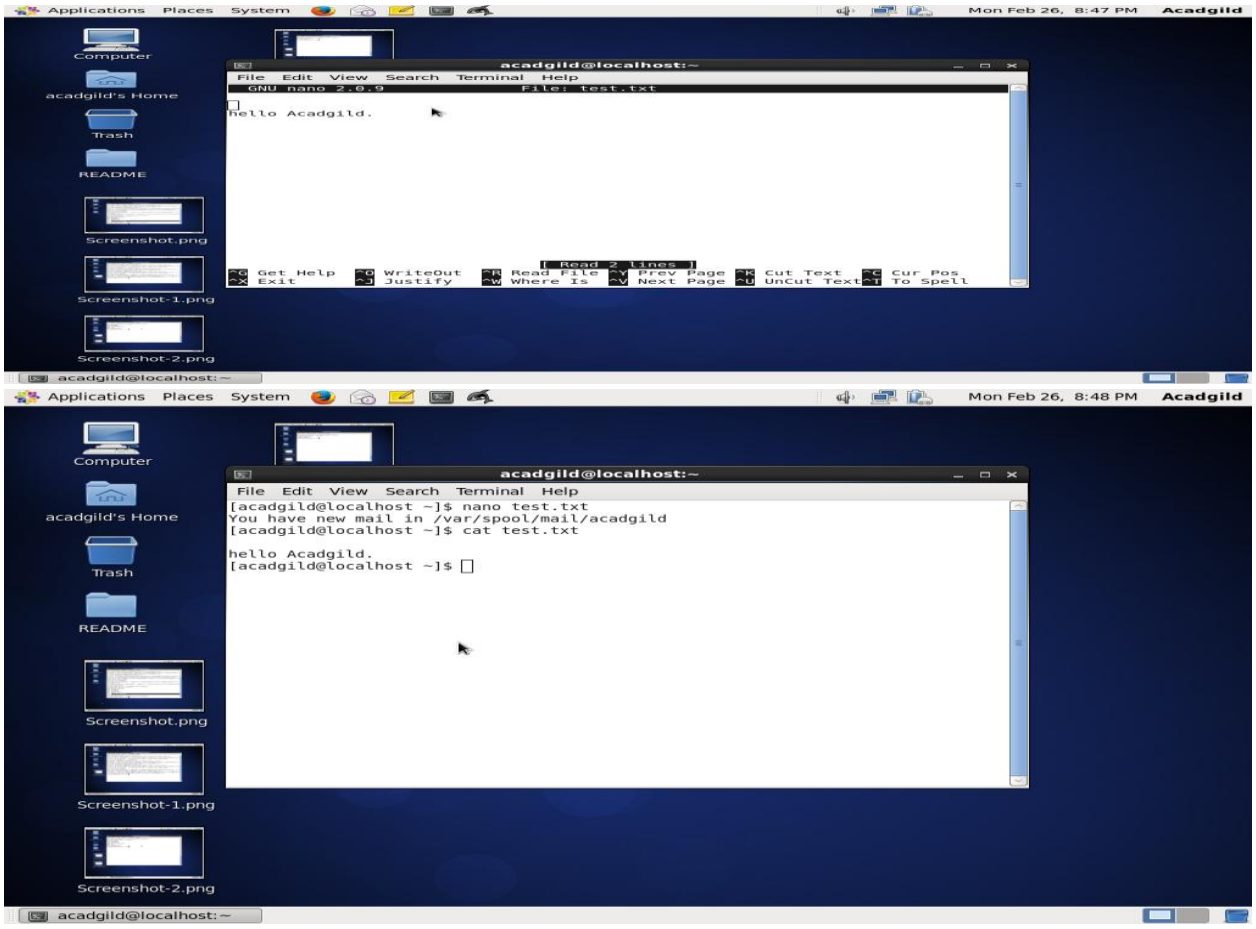
COMMAND:-

nano test.txt

EXPLANATION:-(i)here we create test.txt file.
(ii)then write some contents like:-"hello Acadgild".
(iii)then press ctrl+x.
(iv) then press Y.
(v) then press Enter(↵)
content saved in test.txt.

show the content of the test.txt by ,
cat test.txt

OUTPUT:-



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

COMMAND:-

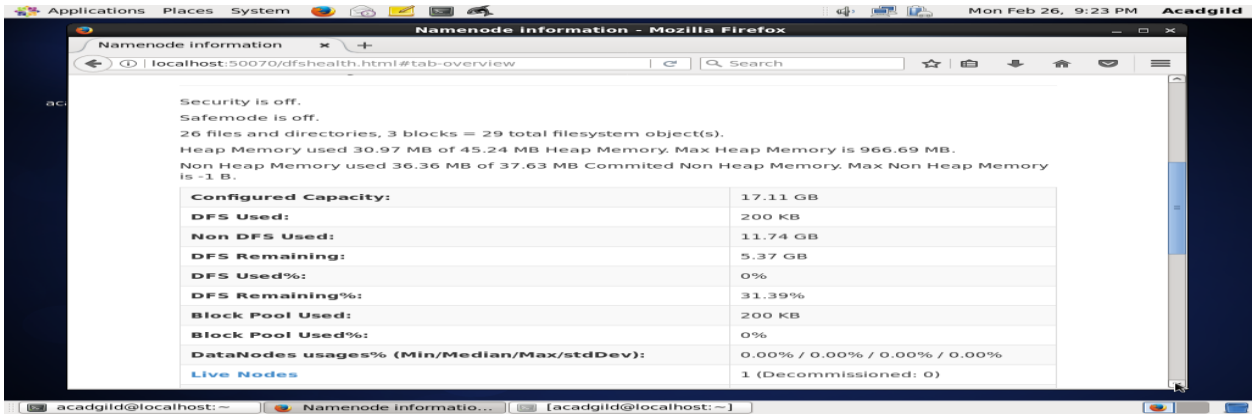
localhost:50070

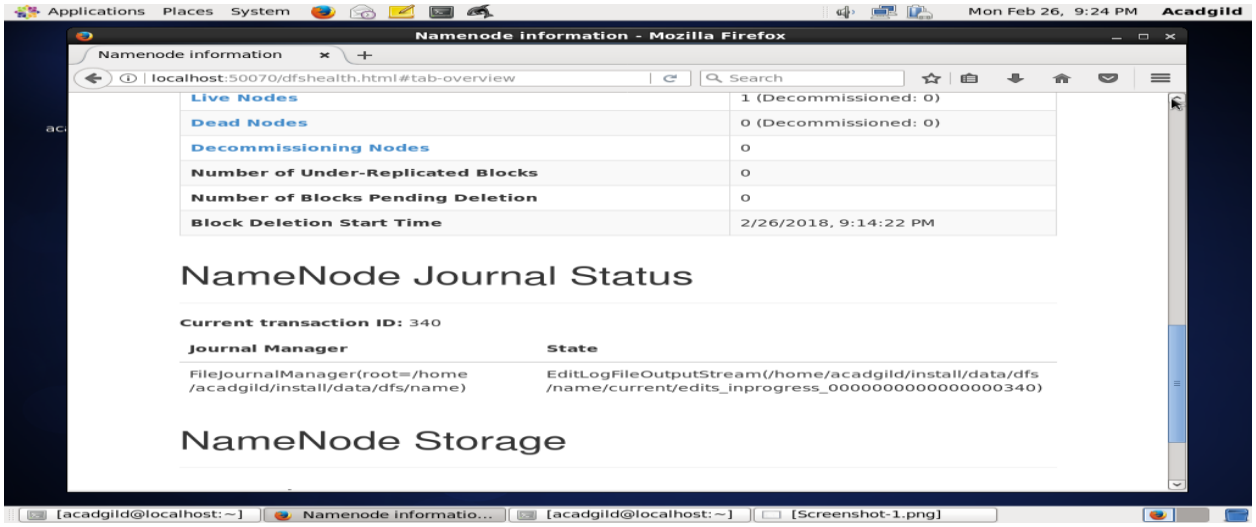
note:-after starting the server ,i.e:-start-all.sh,type "localhost:50070" at the browser Url.

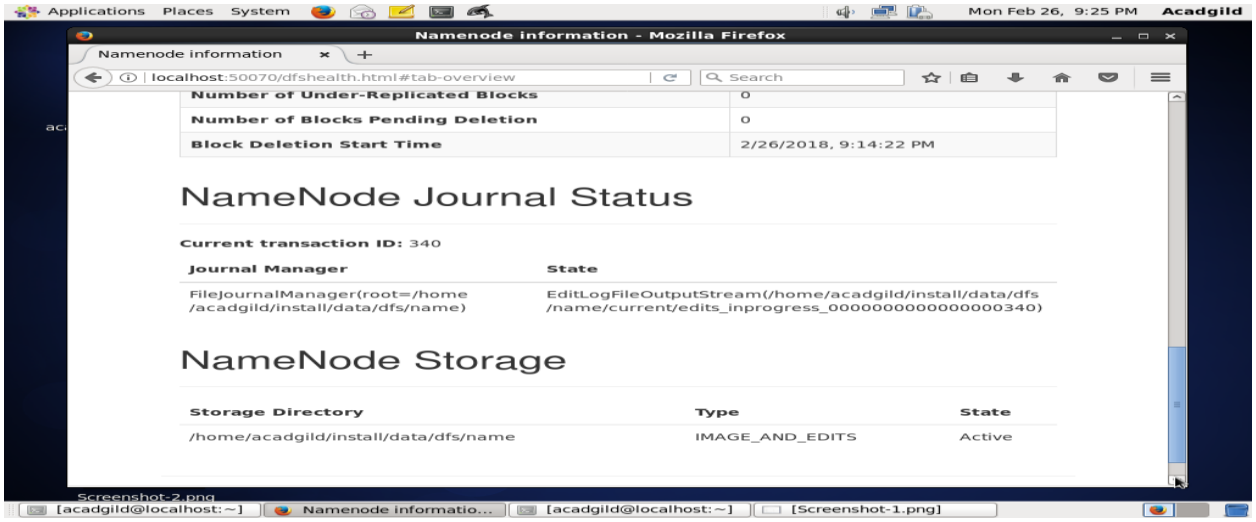
EXPLANATION:-

The **Hadoop** Distributed File System (**HDFS**) is designed to store very large data sets reliably, and to stream those data sets at high bandwidth to user applications. In a large cluster, thousands of servers both host directly attached storage and execute user application tasks.

OUTPUT:-




Applications Places System
Mon Feb 26, 9:24 PM Acadgild
Namenode information - Mozilla Firefox
Namenode information
localhost:50070/dfshealth.html#tab-overview
Search
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 2/26/2018, 9:14:22 PM
NameNode Journal Status
Current transaction ID: 340
Journal Manager
State
FileJournalManager(root=/home /acadgild/install/data/dfs/name)
EditLogFileOutputStream(/home/acadgild/install/data/dfs /name/current/edits_inprogress_0000000000000000340)
NameNode Storage
[acadgild@localhost:~]
Namenode informatio...
[acadgild@localhost:~]
[Screenshot-1.png]


Applications Places System
Mon Feb 26, 9:25 PM Acadgild
Namenode information - Mozilla Firefox
Namenode information
localhost:50070/dfshealth.html#tab-overview
Search
Number of Under-Replicated Blocks 0
Number of Blocks Pending Deletion 0
Block Deletion Start Time 2/26/2018, 9:14:22 PM
NameNode Journal Status
Current transaction ID: 340
Journal Manager
State
FileJournalManager(root=/home /acadgild/install/data/dfs/name)
EditLogFileOutputStream(/home/acadgild/install/data/dfs /name/current/edits_inprogress_0000000000000000340)
NameNode Storage
Storage Directory
Type
State
/home/acadgild/install/data/dfs/name
IMAGE_AND_EDITS
Active
Screenshot-2.png
[acadgild@localhost:~]
Namenode informatio...
[acadgild@localhost:~]
[Screenshot-1.png]