

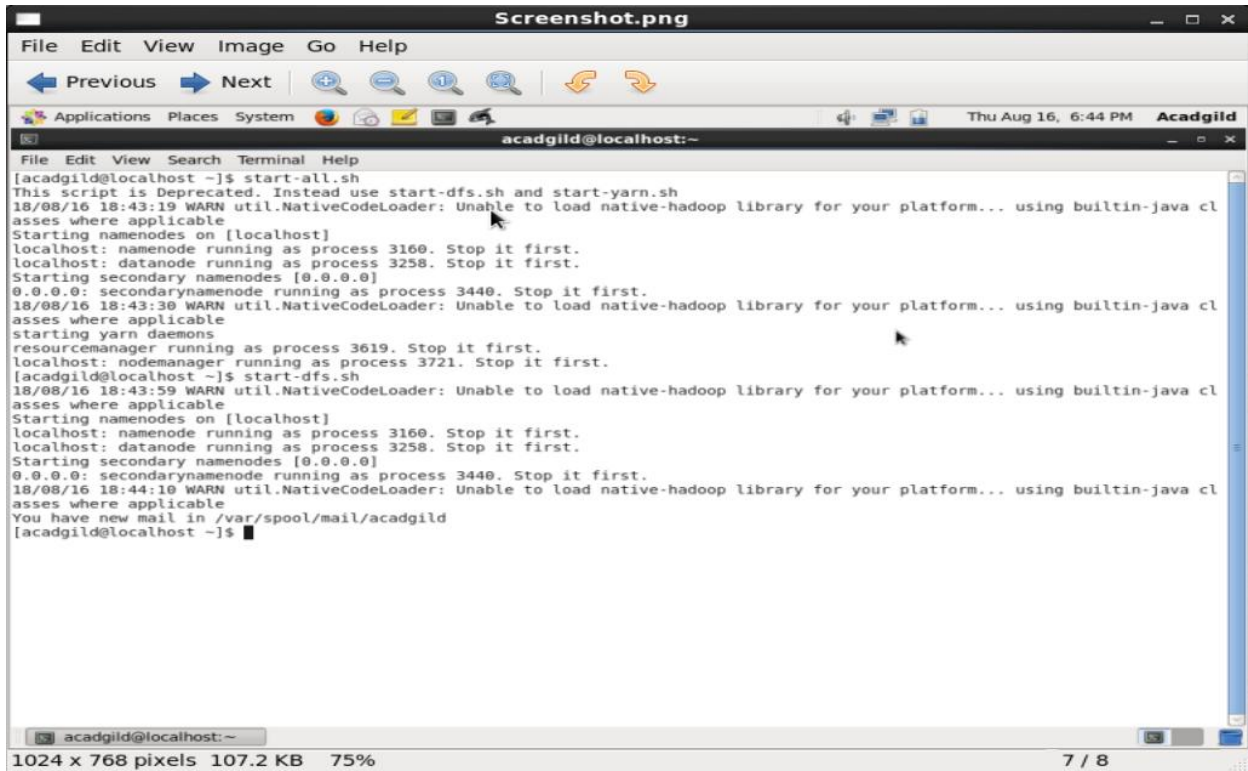
Assignment No-1

Question-1

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

Answer :

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



The screenshot shows a terminal window titled "Screenshot.png" with a menu bar (File, Edit, View, Image, Go, Help) and a toolbar. The terminal output shows the execution of the `start-all.sh` script on a Hadoop single node. The script is deprecated and suggests using `start-dfs.sh` and `start-yarn.sh` instead. The output shows the following steps:

```
[acadgild@localhost ~]$ start-all.sh
This script is deprecated. Instead use start-dfs.sh and start-yarn.sh
18/08/16 18:43:19 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Starting namenodes on [localhost]
localhost: namenode running as process 3160. Stop it first.
localhost: datanode running as process 3258. Stop it first.
Starting secondary namenodes [0.0.0.0]
0.0.0.0: secondarynamenode running as process 3440. Stop it first.
18/08/16 18:43:30 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Starting yarn daemons
resourcemanager running as process 3619. Stop it first.
localhost: nodemanager running as process 3721. Stop it first.
[acadgild@localhost ~]$ start-dfs.sh
18/08/16 18:43:59 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Starting namenodes on [localhost]
localhost: namenode running as process 3160. Stop it first.
localhost: datanode running as process 3258. Stop it first.
Starting secondary namenodes [0.0.0.0]
0.0.0.0: secondarynamenode running as process 3440. Stop it first.
18/08/16 18:44:10 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

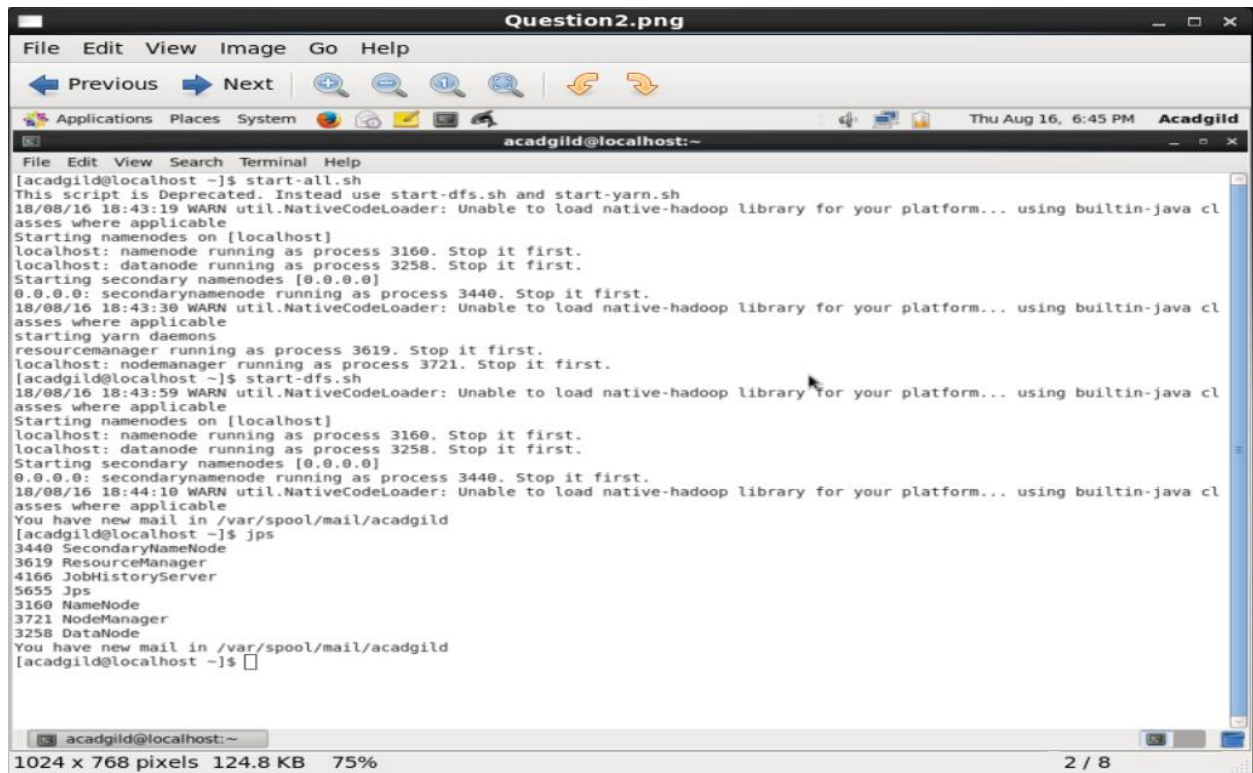
The terminal window also shows the system clock as "Thu Aug 16, 6:44 PM" and the user "Acadgild". The bottom status bar indicates the window size is "1024 x 768 pixels", the file size is "107.2 KB", and the zoom level is "75%".

Question-2

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

Answer :

JPS stands for Java Virtual Machine Process Status Tool. **JPS** is a command is used to check all the Hadoop daemons like NameNode, DataNode, ResourceManager, NodeManager etc.



The screenshot shows a terminal window titled "Question2.png" with a menu bar (File, Edit, View, Image, Go, Help) and a toolbar. The terminal output shows the execution of `start-all.sh` and `start-dfs.sh` commands, which start Hadoop daemons. The output includes warnings about the native-hadoop library and lists the running processes with their IDs and names. Finally, the `jps` command is executed, displaying a list of running Hadoop daemons.

```
[acadgild@localhost ~]$ start-all.sh
This script is deprecated. Instead use start-dfs.sh and start-yarn.sh
18/08/16 18:43:19 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Starting namenodes on [localhost]
localhost: namenode running as process 3160. Stop it first.
localhost: datanode running as process 3258. Stop it first.
Starting secondary namenodes [0.0.0.0]
0.0.0.0: secondarynamenode running as process 3440. Stop it first.
18/08/16 18:43:30 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
starting yarn daemons
resourceananager running as process 3619. Stop it first.
localhost: nodemananger running as process 3721. Stop it first.
[acadgild@localhost ~]$ start-dfs.sh
18/08/16 18:43:59 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Starting namenodes on [localhost]
localhost: namenode running as process 3160. Stop it first.
localhost: datanode running as process 3258. Stop it first.
Starting secondary namenodes [0.0.0.0]
0.0.0.0: secondarynamenode running as process 3440. Stop it first.
18/08/16 18:44:10 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ jps
3440 SecondaryNameNode
3619 ResourceManager
4166 JobHistoryServer
5655 Jps
3160 NameNode
3721 NodeManager
3258 DataNode
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

1024 x 768 pixels 124.8 KB 75% 2 / 8

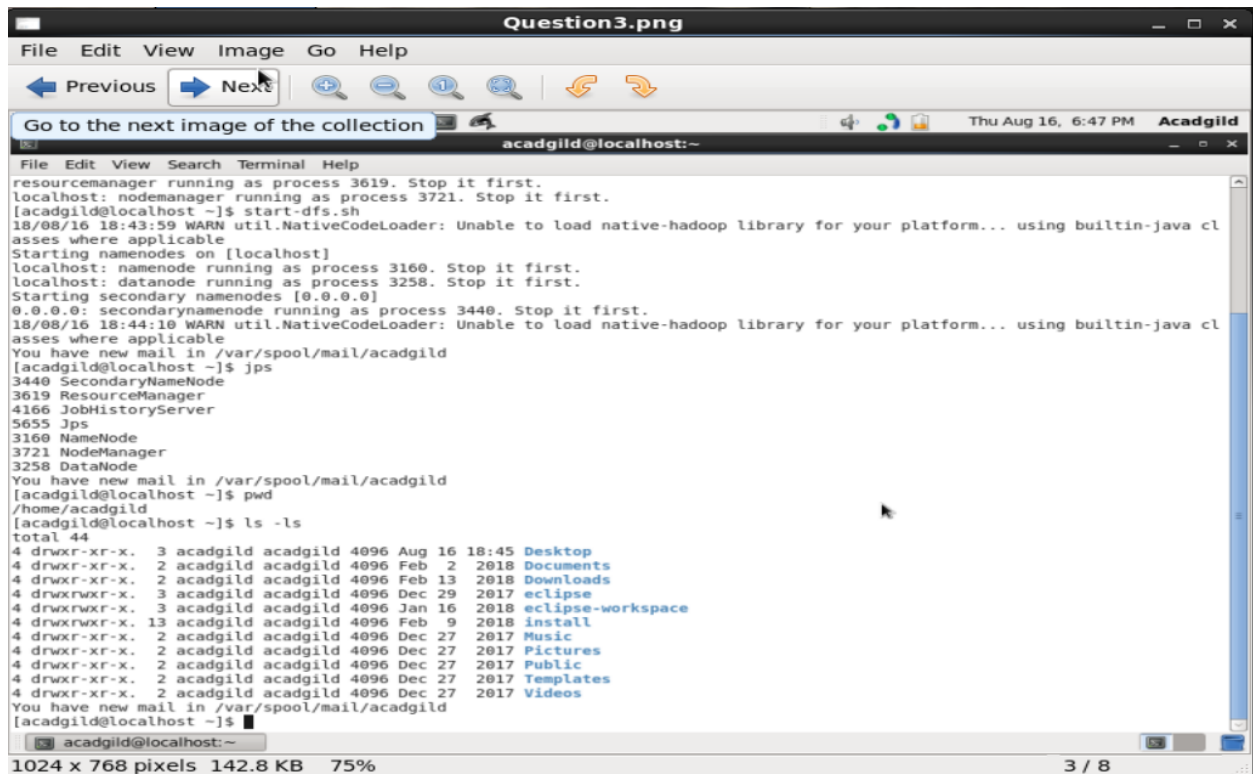
Question-3

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

Answer :

Pwd : Print Working Directory

Ls -ls :List Directory



The screenshot shows a terminal window titled "Question3.png" with a menu bar (File, Edit, View, Image, Go, Help) and a toolbar. The terminal output shows the execution of `start-dfs.sh` on a local host, which starts Hadoop services. It includes warnings about the native Hadoop library and lists the running processes: `3440 SecondaryNameNode`, `3619 ResourceManager`, `4166 JobHistoryServer`, `5655 Jps`, `3160 NameNode`, `3721 NodeManager`, and `3258 DataNode`. After running `pwd`, the directory is `/home/acadgild`. Finally, `ls -ls` is run, displaying a detailed directory listing with permissions, owner, group, size, date, and file names.

```
resourceManager running as process 3619. Stop it first.
localhost: nodemanager running as process 3721. Stop it first.
[acadgild@localhost ~]$ start-dfs.sh
18/08/16 18:43:59 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Starting namenodes on [localhost]
localhost: namenode running as process 3160. Stop it first.
localhost: datanode running as process 3258. Stop it first.
Starting secondary namenodes [0.0.0.0]
0.0.0.0: secondarynamenode running as process 3440. Stop it first.
18/08/16 18:44:10 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ jps
3440 SecondaryNameNode
3619 ResourceManager
4166 JobHistoryServer
5655 Jps
3160 NameNode
3721 NodeManager
3258 DataNode
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ pwd
/home/acadgild
[acadgild@localhost ~]$ ls -ls
total 44
4 drwxr-xr-x. 3 acadgild acadgild 4096 Aug 16 18:45 Desktop
4 drwxr-xr-x. 2 acadgild acadgild 4096 Feb  2 2018 Documents
4 drwxr-xr-x. 2 acadgild acadgild 4096 Feb 13 2018 Downloads
4 drwxrwxr-x. 3 acadgild acadgild 4096 Dec 29 2017 eclipse
4 drwxrwxr-x. 3 acadgild acadgild 4096 Jan 16 2018 eclipse-workspace
4 drwxrwxr-x. 13 acadgild acadgild 4096 Feb  9 2018 install
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 2017 Music
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 2017 Pictures
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 2017 Public
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 2017 Templates
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 2017 Videos
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

1024 x 768 pixels 142.8 KB 75% 3 / 8

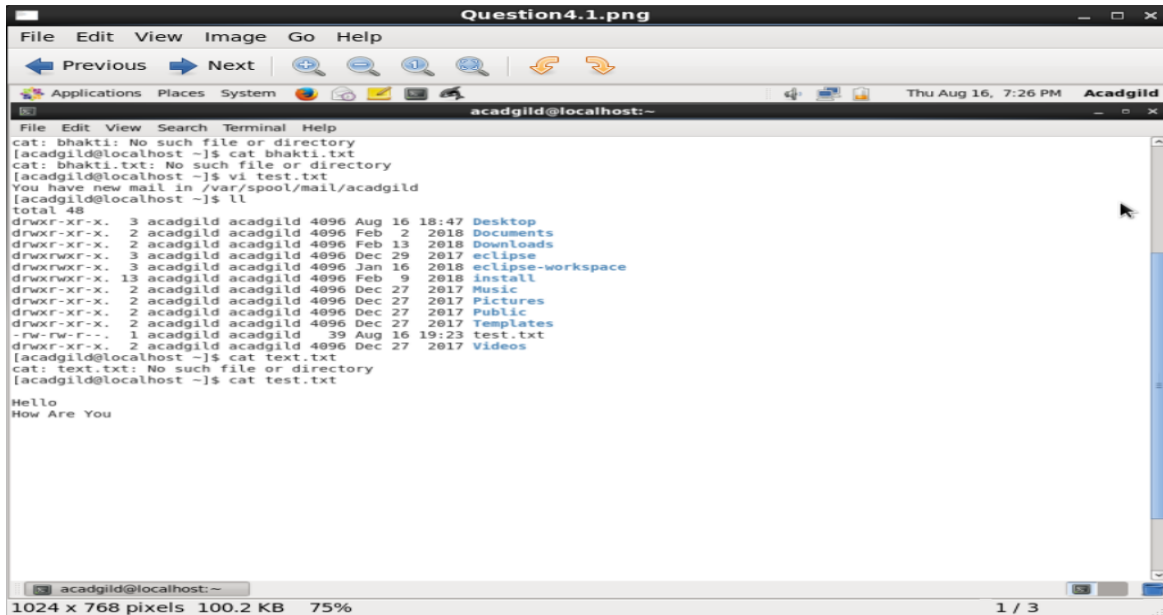
Question-4

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.

Answer :

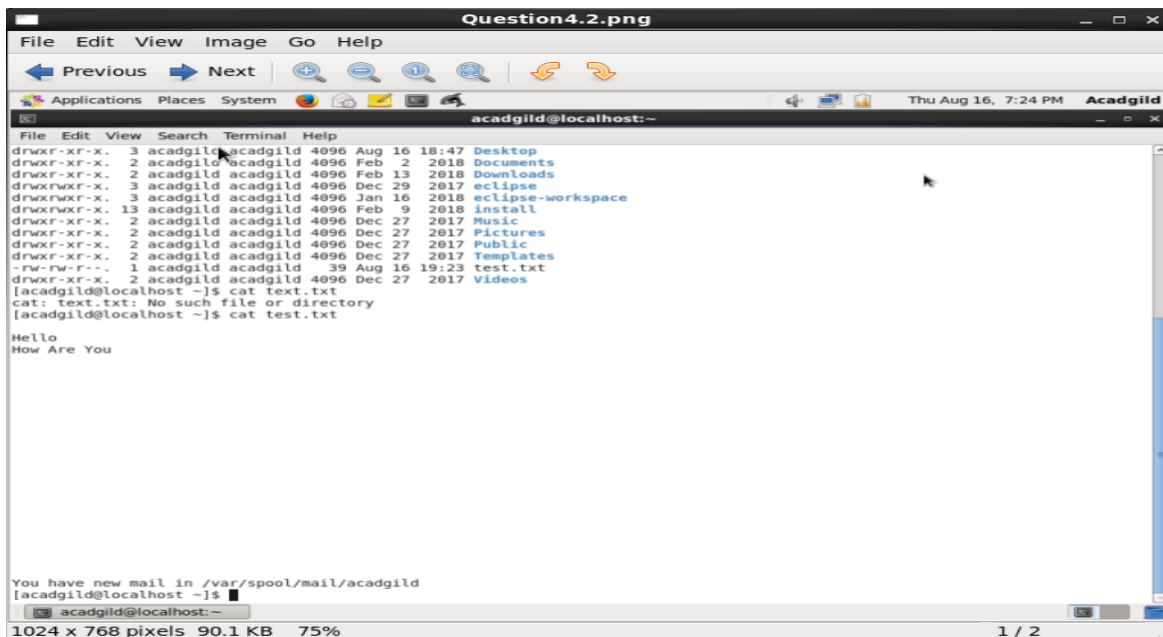
To create New File : vi test.txt

To see the content of file : cat test.txt



```
acadgild@localhost:~$ nano test.txt
Hello
How Are You
acadgild@localhost:~$ cat test.txt
Hello
How Are You
```

The screenshot shows a terminal window titled "Question4.1.png" with a menu bar (File, Edit, View, Image, Go, Help) and navigation buttons (Previous, Next). The terminal output shows the user attempting to cat a non-existent file, then using nano to create test.txt with the content "Hello" and "How Are You". The cat command successfully displays the saved content. The terminal status bar shows the user is acadgild@localhost:~.



```
acadgild@localhost:~$ nano test.txt
Hello
How Are You
acadgild@localhost:~$ cat test.txt
Hello
How Are You
```

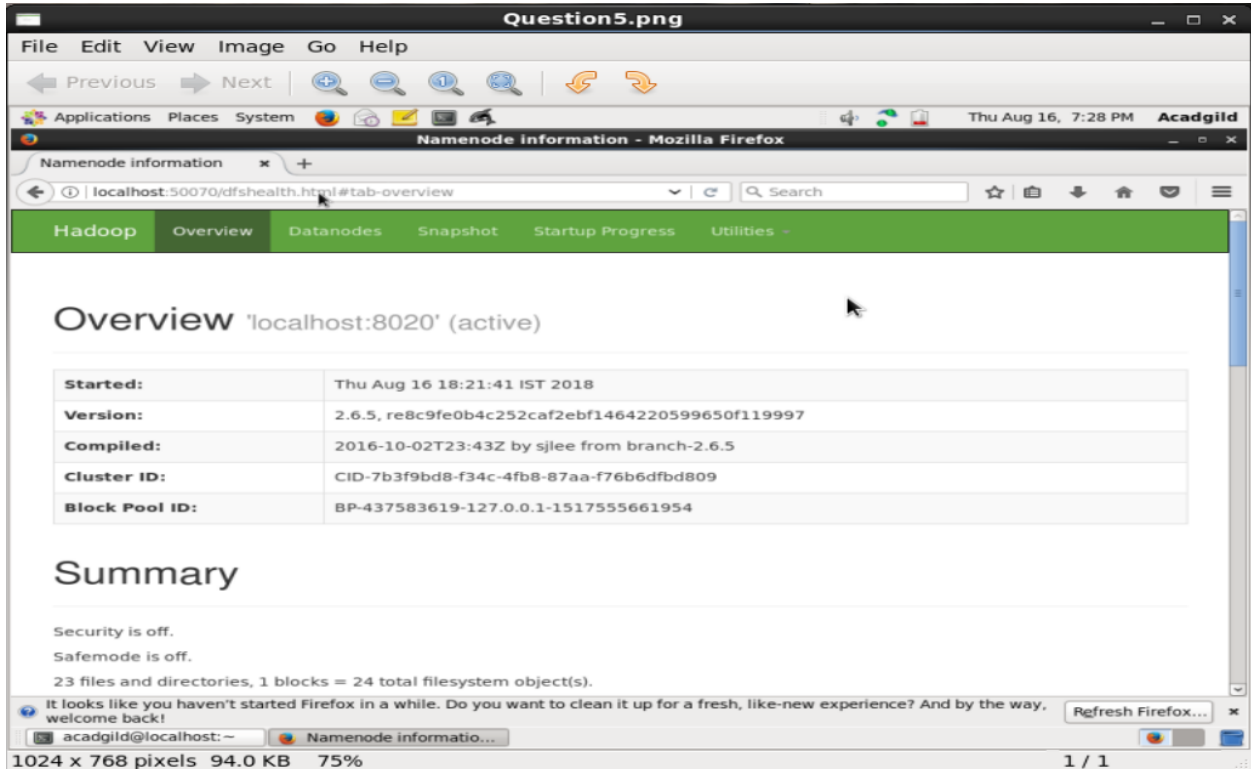
The screenshot shows a terminal window titled "Question4.2.png" with a menu bar (File, Edit, View, Search, Terminal, Help) and navigation buttons (Previous, Next). The terminal output shows the user attempting to cat a non-existent file, then using nano to create test.txt with the content "Hello" and "How Are You". The cat command successfully displays the saved content. The terminal status bar shows the user is acadgild@localhost:~.

Question-4

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

Answer :

Details Of HDFS :



The screenshot shows the Hadoop NameNode web interface in Mozilla Firefox. The browser address bar displays `localhost:50070/dfshealth.html#tab-overview`. The interface has a green navigation bar with the following tabs: Hadoop, Overview, Datanodes, Snapshot, Startup Progress, and Utilities. The main content area is titled "Overview 'localhost:8020' (active)".

Started:	Thu Aug 16 18:21:41 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.
23 files and directories, 1 blocks = 24 total filesystem object(s).

It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!

1024 x 768 pixels 94.0 KB 75% 1 / 1