

Assignment -1

1. Introduction

This assignment will help you consolidate the concepts that you learned in the opening session.

2. Tasks

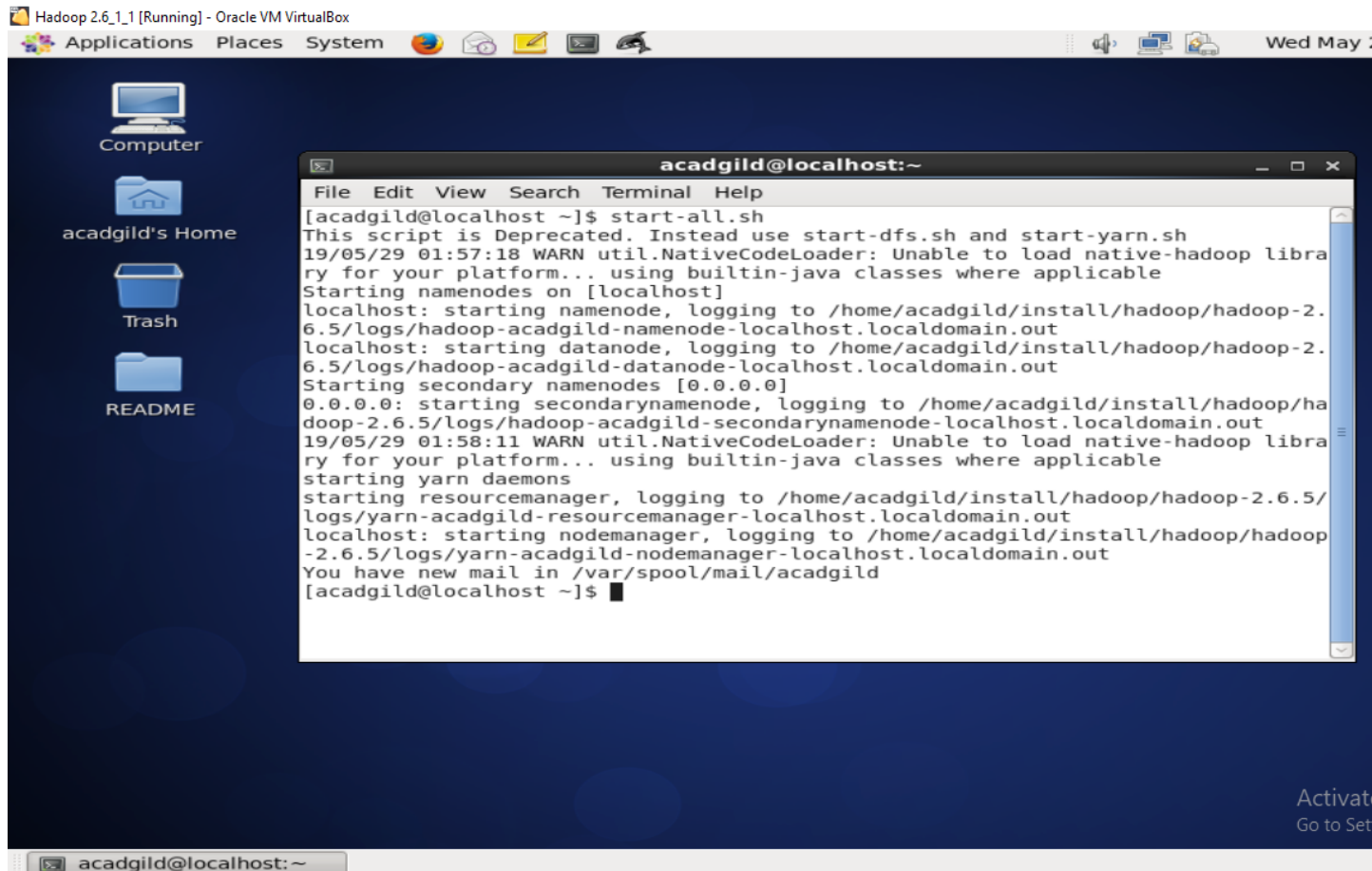
- 1) Start Hadoop single node on AcadGild VM. The command is start-all.sh.
- 2) Run a JPS command to see if all Hadoop daemons are running.
- 3) Run few Unix commands like pwd, ls -ls, etc.
- 4) Create a file from the terminal using nano editor (example: nano test.txt), and add some content in it. Cat it to see if the content is saved.
- 5) Open the hdfs web page by typing localhost:50070 in the browser. Check all the details of the HDFS.

3. Expected Output

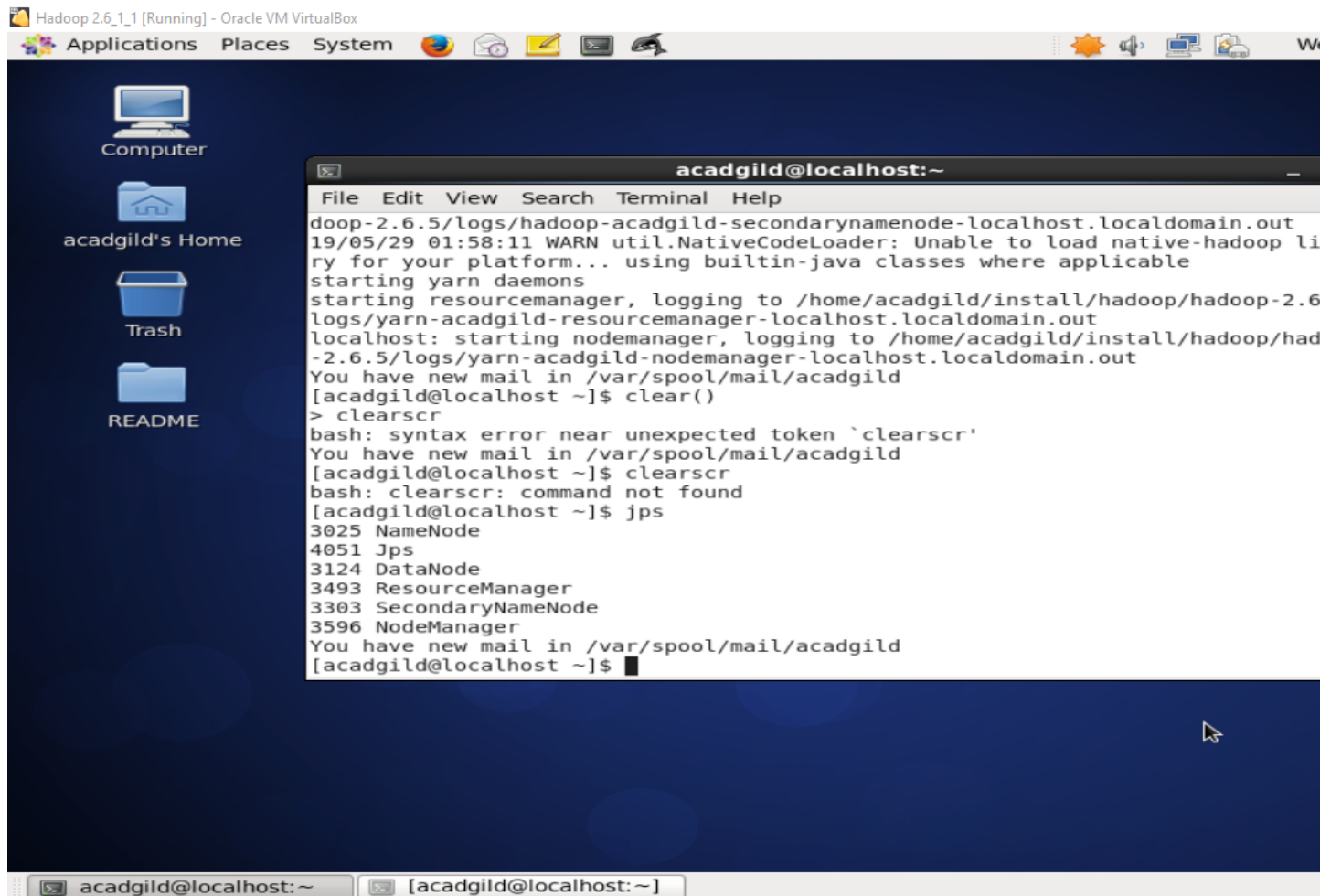
Solution report with commands, explanation of commands, and screenshots of the output should be submitted in pdf format on GitHub.

1. Start Hadoop single node on AcadGild VM.

- The command is start-all.sh.



2. Run a JPS command to see if all Hadoop daemons are running.
 - Command `jps`



The screenshot shows a virtual machine window titled "Hadoop 2.6_1_1 [Running] - Oracle VM VirtualBox". The desktop background is dark blue with icons for "Computer", "acadgild's Home", "Trash", and "README". A terminal window titled "acadgild@localhost:~" is open, displaying the following text:

```
File Edit View Search Terminal Help
doop-2.6.5/logs/hadoop-acadgild-secondarynamenode-localhost.localdomain.out
19/05/29 01:58:11 WARN util.NativeCodeLoader: Unable to load native-hadoop li
ry for your platform... using builtin-java classes where applicable
starting yarn daemons
starting resourcemanager, logging to /home/acadgild/install/hadoop/hadoop-2.6
logs/yarn-acadgild-resourcemanager-localhost.localdomain.out
localhost: starting nodemanager, logging to /home/acadgild/install/hadoop/had
-2.6.5/logs/yarn-acadgild-nodemanager-localhost.localdomain.out
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ clear()
> clearscr
bash: syntax error near unexpected token `clearscr'
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ clearscr
bash: clearscr: command not found
[acadgild@localhost ~]$ jps
3025 NameNode
4051 Jps
3124 DataNode
3493 ResourceManager
3303 SecondaryNameNode
3596 NodeManager
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

The terminal window has two tabs at the bottom, both titled "acadgild@localhost:~".

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

- pwd
- ls
- ls -ls -
- ls-la

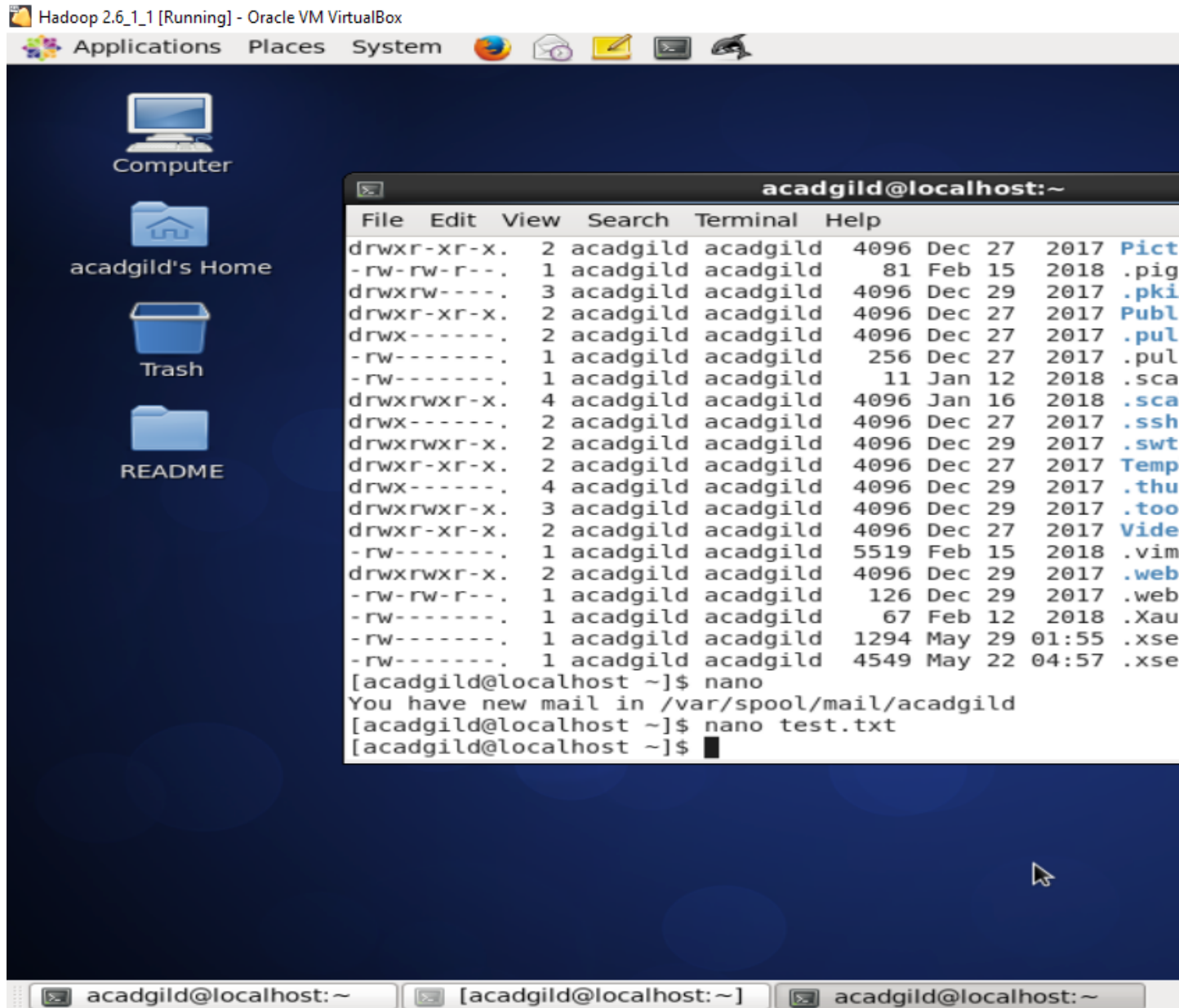
Hadoop 2.6.1_1 [Running] - Oracle VM VirtualBox

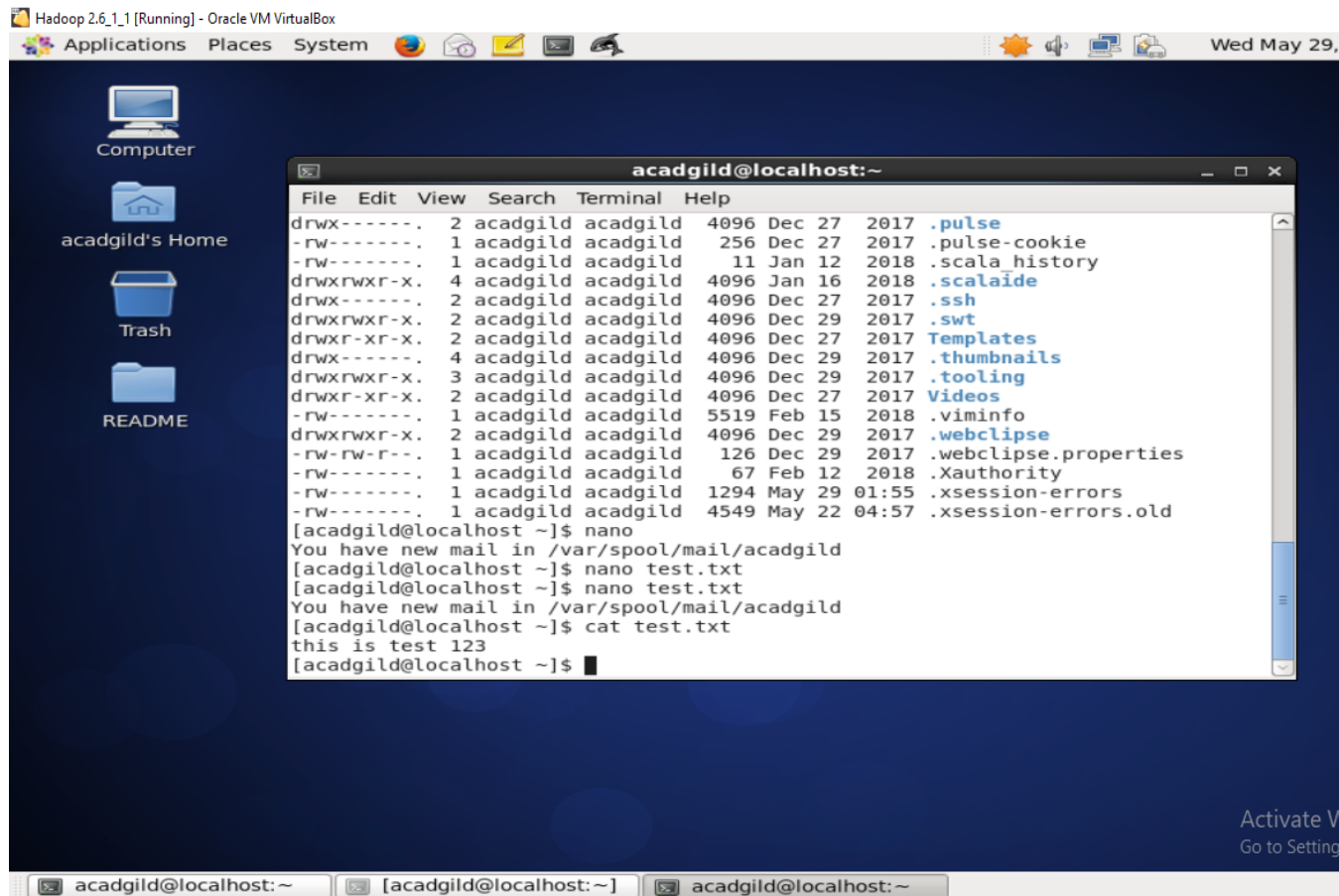
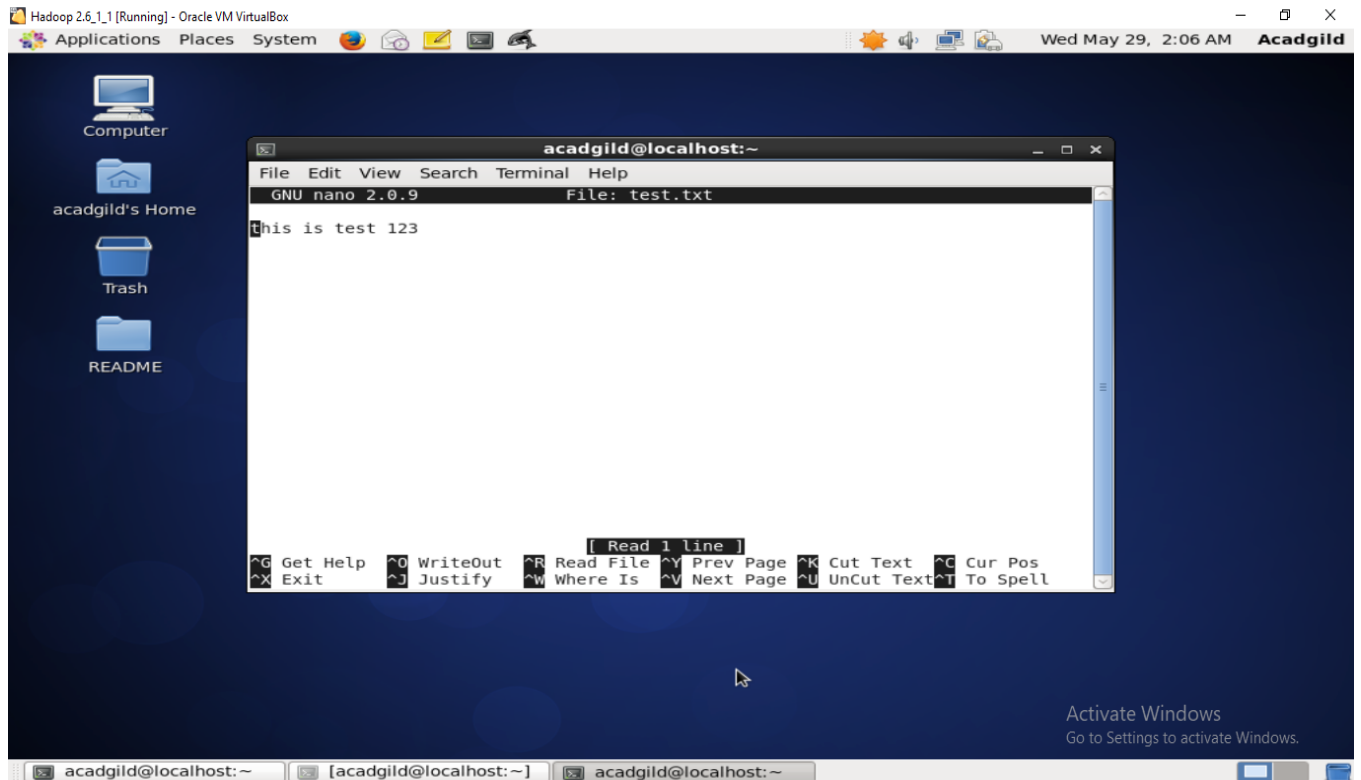
The screenshot shows a Linux desktop environment with a dark blue background. On the left side, there are several desktop icons: 'Computer', 'acadgild's Home', 'Trash', and 'README'. A terminal window is open in the center-right, titled 'acadgild@localhost:~'. The terminal shows the following commands and output:

```
[acadgild@localhost ~]$ pwd
/home/acadgild
[acadgild@localhost ~]$ ls
Desktop Downloads eclipse-workspace Music Public Videos
Documents eclipse install Pictures Templates
[acadgild@localhost ~]$ ls -ls
total 44
4 drwxr-xr-x. 3 acadgild acadgild 4096 Feb  2  2018 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-worksp
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
[acadgild@localhost ~]$ ls -la
total 272
drwx-----. 39 acadgild acadgild 4096 May 29 01:55 .
drwxr-xr-x.  3 root      root      4096 Dec 27 2017 ..
drwxrwxr-x.  2 acadgild acadgild 4096 Dec 27 2017 .abrt
-rw-----.  1 acadgild acadgild 19323 May 22 04:57 .bash_history
```

The terminal window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The desktop also has a top bar with 'Applications', 'Places', and 'System' menus, along with various system icons on the right.

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





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

Hadoop 2.6.1_1 [Running] - Oracle VM VirtualBox

Applications Places System

Namenode information - Mozilla Firefox

Namenode information x +

localhost:50070/dfshealth.html#tab-overview

Search

Hadoop Overview Datanodes Snapshot Startup Progress Utilities

Overview 'localhost:8020' (active)

Started:	Wed May 29 01:57:30 IST 2019
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 29.84 MB of 49.73 MB Heap Memory. Max Heap Memory

Namenode information - Mozilla Firefox

[acadgild@localhost: ~] [acadgild@localhost: ~] [acadgild@localhost: ~] Namenode informatio...