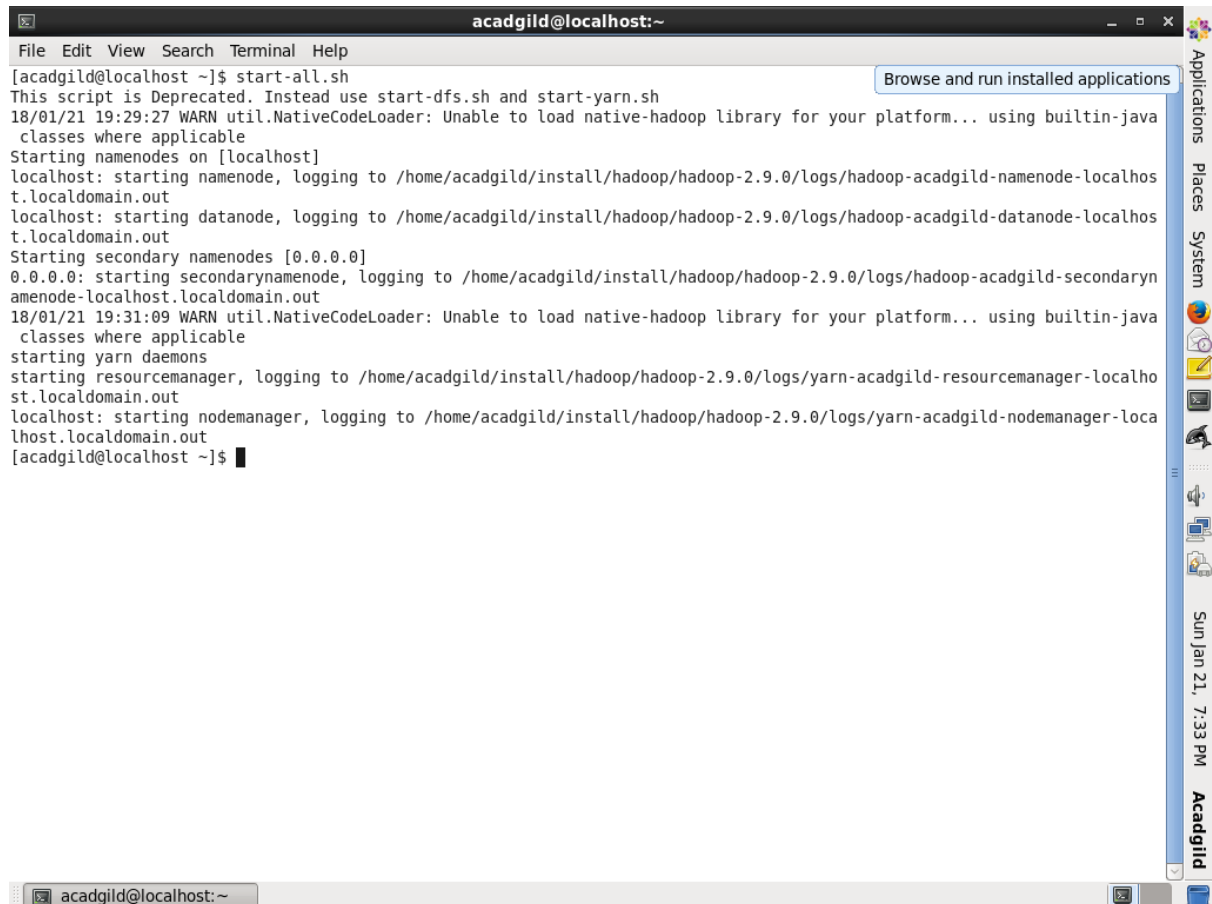


1. Start Hadoop single node on AcadGild VM. The command is start-all.sh.

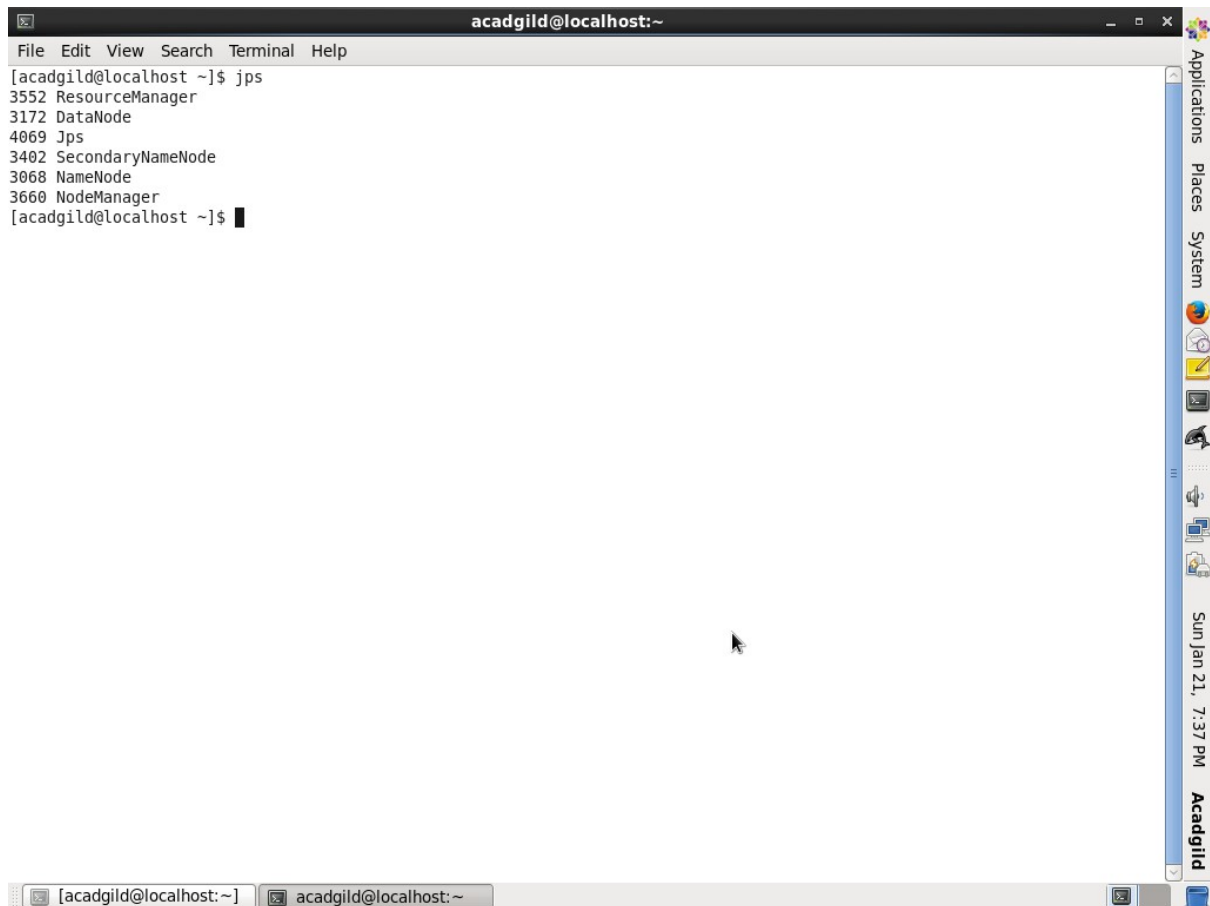


The screenshot shows a terminal window titled "acadgild@localhost:~". The terminal output is as follows:

```
[acadgild@localhost ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/01/21 19:29:27 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-2.9.0/logs/hadoop-acadgild-namenode-localhos
t.localdomain.out
localhost: starting datanode, logging to /home/acadgild/install/hadoop/hadoop-2.9.0/logs/hadoop-acadgild-datanode-localhos
t.localdomain.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /home/acadgild/install/hadoop/hadoop-2.9.0/logs/hadoop-acadgild-secondaryrn
amenode-localhost.localdomain.out
18/01/21 19:31:09 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-2.9.0/logs/yarn-acadgild-resourcemanager-localho
st.localdomain.out
localhost: starting nodemanager, logging to /home/acadgild/install/hadoop/hadoop-2.9.0/logs/yarn-acadgild-nodemanager-loca
lhost.localdomain.out
[acadgild@localhost ~]$
```

The terminal window has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". A button labeled "Browse and run installed applications" is visible in the top right. The desktop background is blue, and the right sidebar shows icons for "Applications", "Places", "System", and a clock displaying "Sun Jan 21, 7:33 PM" and "Acadgild".

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

A screenshot of a Linux terminal window titled 'acadgild@localhost:~'. The window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal shows the command '[acadgild@localhost ~]\$ jps' and its output: '3552 ResourceManager', '3172 DataNode', '4069 Jps', '3402 SecondaryNameNode', '3068 NameNode', and '3660 NodeManager'. The prompt '[acadgild@localhost ~]\$' is followed by a cursor. On the right side of the window, there is a vertical sidebar with icons for 'Applications', 'Places', and 'System', and a date/time display showing 'Sun Jan 21, 7:37 PM' and the username 'Acadgild'. At the bottom, there is a taskbar with two open terminal windows, both titled '[acadgild@localhost:~]'.

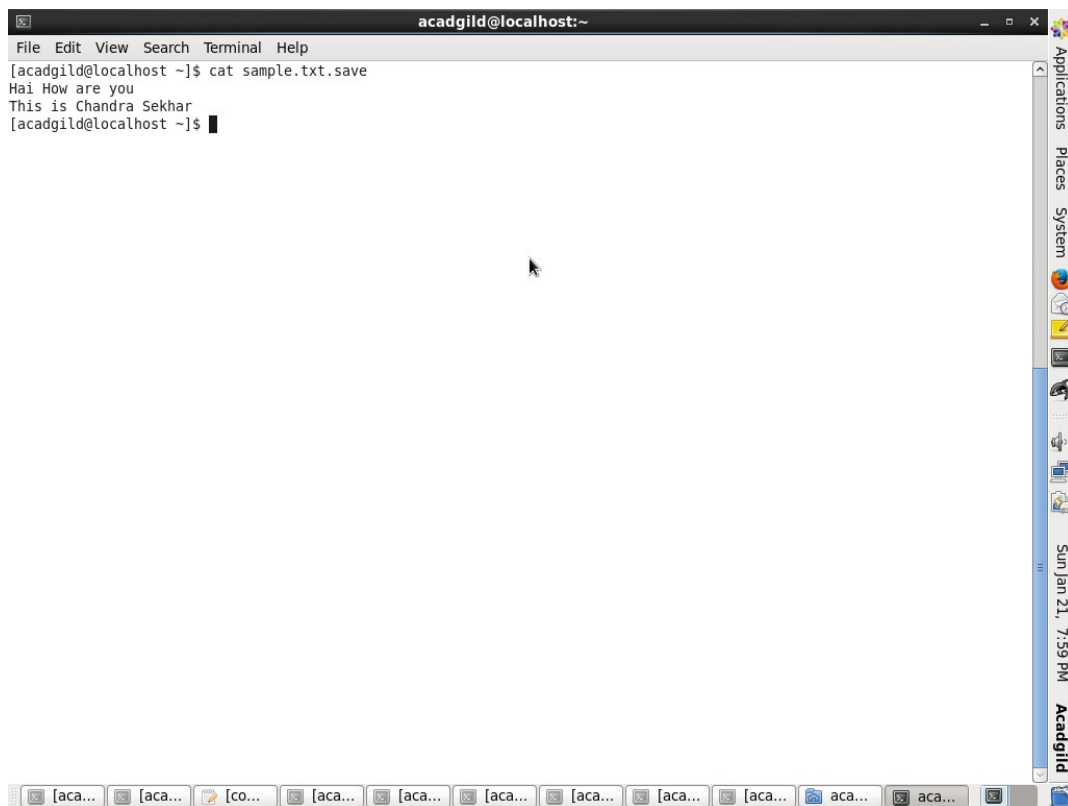
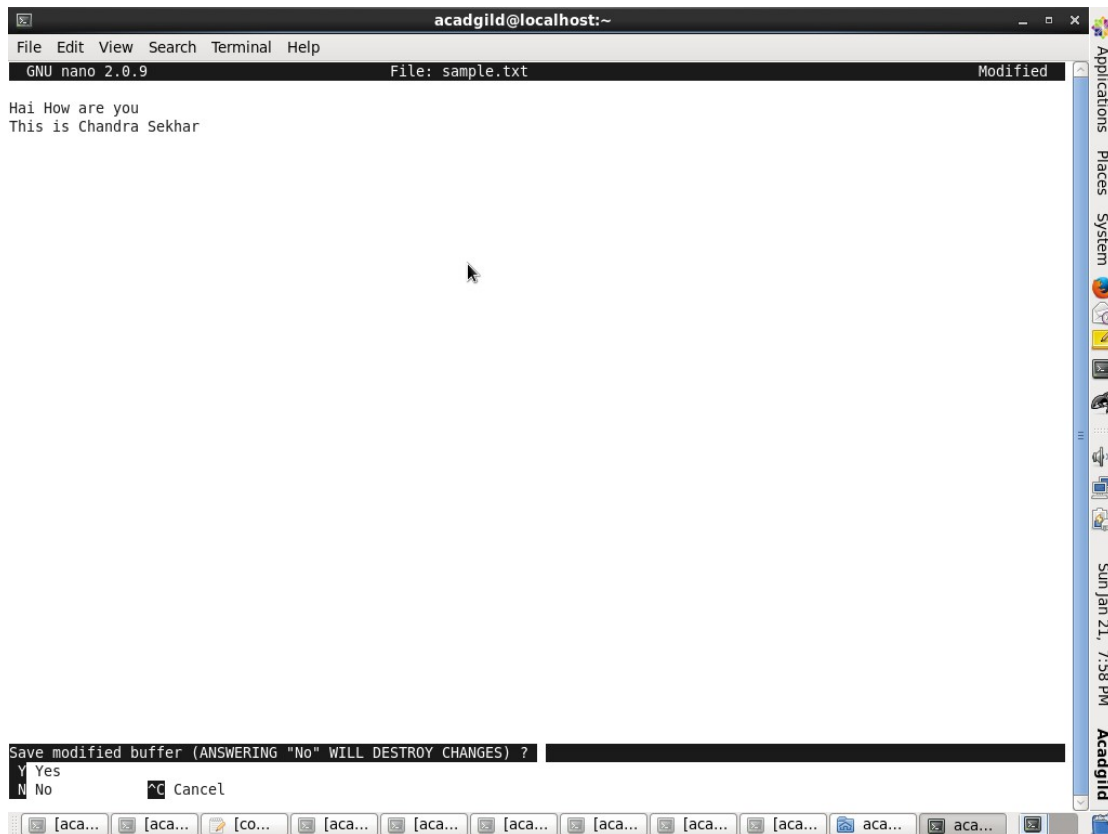
```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ jps  
3552 ResourceManager  
3172 DataNode  
4069 Jps  
3402 SecondaryNameNode  
3068 NameNode  
3660 NodeManager  
[acadgild@localhost ~]$
```

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

- *jps* - Lists the instrumented Java Virtual Machines (JVMs) on the target system. This command is experimental and unsupported
- *pwd* - print name of current/working directory
- *ls* - list directory contents
- *nano* - Nano's ANOther editor, an enhanced free Pico clone

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ pwd  
/home/acadgild  
[acadgild@localhost ~]$ ls  
db.java Documents eclipse file1.txt Music Pictures Templates  
Desktop Downloads eclipse-workspace install new.txt Public Videos  
[acadgild@localhost ~]$ ls -ls  
total 108  
56 -rw-rw-r-- 1 acadgild acadgild 55813 Dec 29 22:24 db.java  
4 drwxr-xr-x 3 acadgild acadgild 4096 Jan 21 19:45 Desktop  
4 drwxr-xr-x 2 acadgild acadgild 4096 Dec 27 17:03 Documents  
4 drwxr-xr-x 2 acadgild acadgild 4096 Jan 16 13:46 Downloads  
4 drwxrwxr-x 3 acadgild acadgild 4096 Dec 29 16:59 eclipse  
4 drwxrwxr-x 3 acadgild acadgild 4096 Jan 16 14:02 eclipse-workspace  
4 -rw-rw-r-- 1 acadgild acadgild 21 Jan 21 11:11 file1.txt  
4 drwxrwxr-x 11 acadgild acadgild 4096 Jan 12 15:21 install  
4 drwxr-xr-x 2 acadgild acadgild 4096 Dec 27 17:03 Music  
4 -rw-r--r-- 1 acadgild acadgild 21 Jan 21 11:22 new.txt  
4 drwxr-xr-x 2 acadgild acadgild 4096 Dec 27 17:03 Pictures  
4 drwxr-xr-x 2 acadgild acadgild 4096 Dec 27 17:03 Public  
4 drwxr-xr-x 2 acadgild acadgild 4096 Dec 27 17:03 Templates  
4 drwxr-xr-x 2 acadgild acadgild 4096 Dec 27 17:03 Videos  
[acadgild@localhost ~]$
```

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.

Overview 'localhost:8020' (active)

Started:	Wed Jan 24 10:23:39 +0530 2018
Version:	2.9.0, r756ebc8394e473ac25feac05fa493f6d612e6c50
Compiled:	Tue Nov 14 04:45:00 +0530 2017 by arsureh from branch-2.9.0
Cluster ID:	CID-cc051c10-724e-42c5-b83e-ba82d3baac40
Block Pool ID:	BP-459426964-127.0.0.1-1514541199410

Summary

Security is off.
Safemode is off.
57 files and directories, 11 blocks = 68 total filesystem object(s).
Heap Memory used 33.76 MB of 60.06 MB Heap Memory. Max Heap Memory is 966.69 MB.
Non Heap Memory used 41.46 MB of 42.13 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>.