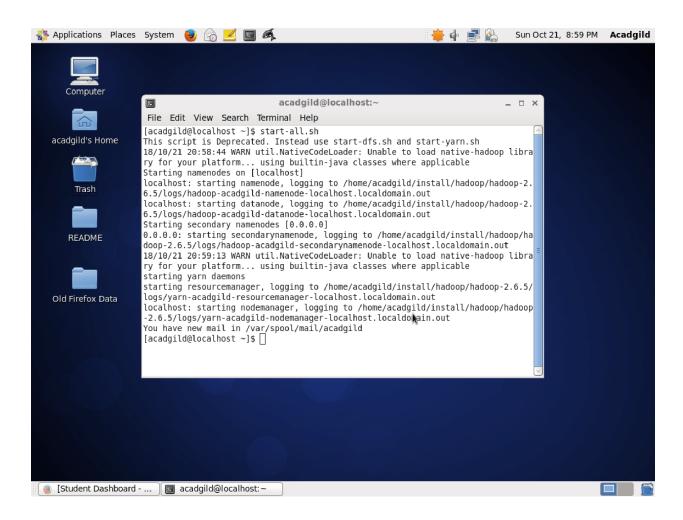
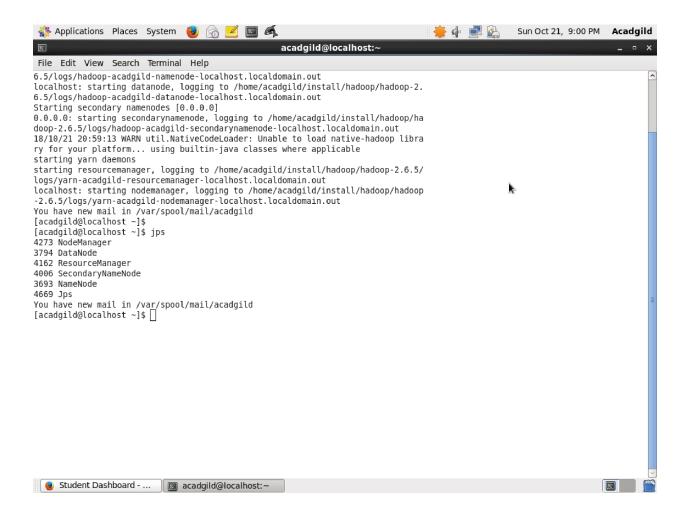
1) Start Hadoop single node on AcadGild VM. The command is start-all.sh.

Solution: when we run the command "start-all.sh", this will startup a Namenode, Datanode, Jobtracker and a Tasktracker on your machine.



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

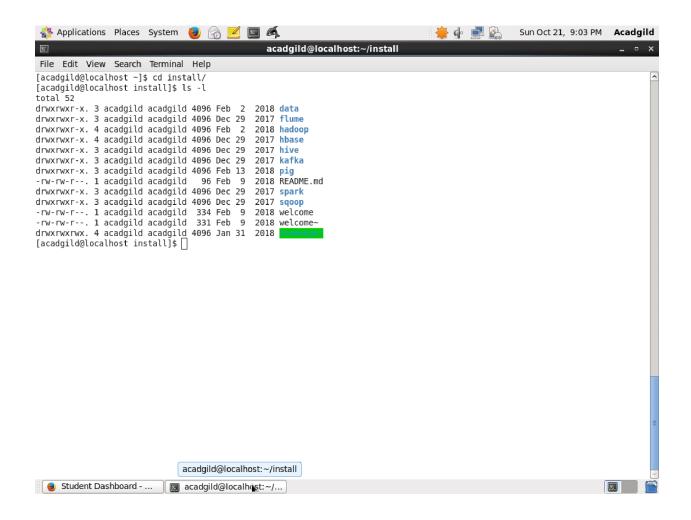
Solution: JPS checks the java processes that are running. The **jps command** is found in the \$JAVA HOME/bin directory.



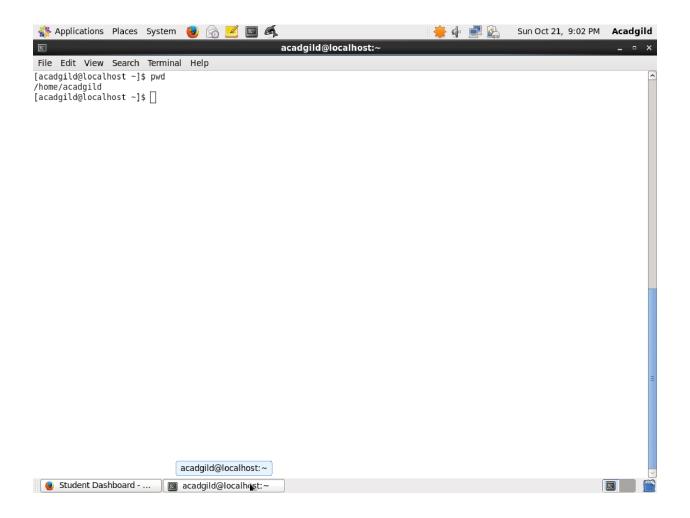
3) Run few Unix commands like pwd, ls -ls, etc.

Solution: Is –I Lists the files and folders in the current directory.

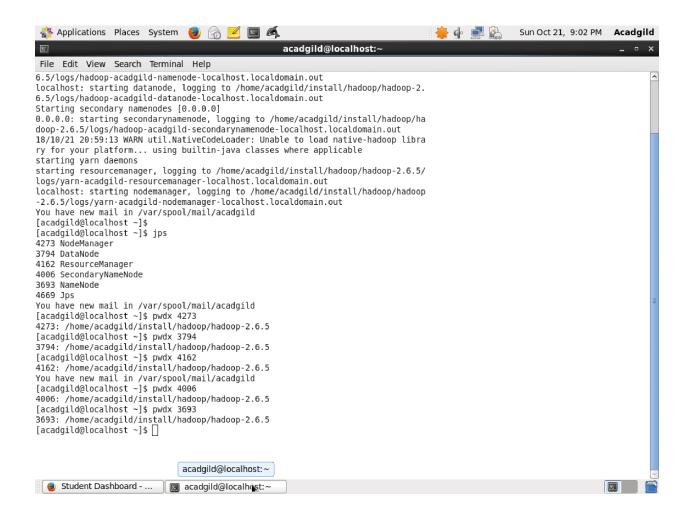
cd is used to change the directory.



Next we type pwd to find out where you are within your computer. This command means "print working directory" and will tell you the exact working directory you are currently in.

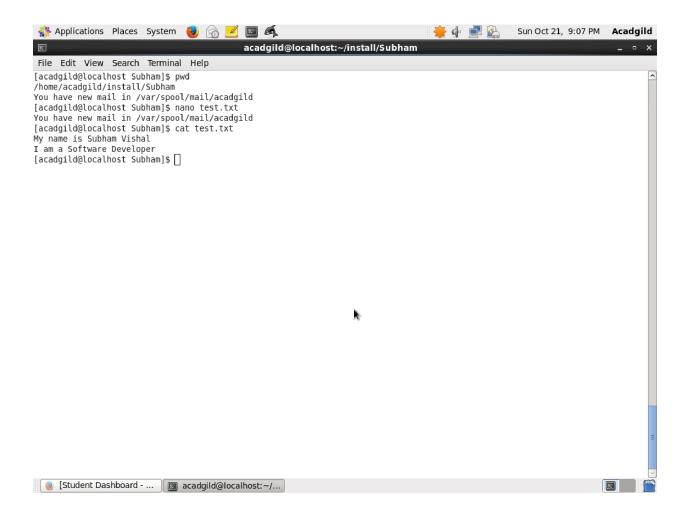


pwdx command shows current working directory of a process.



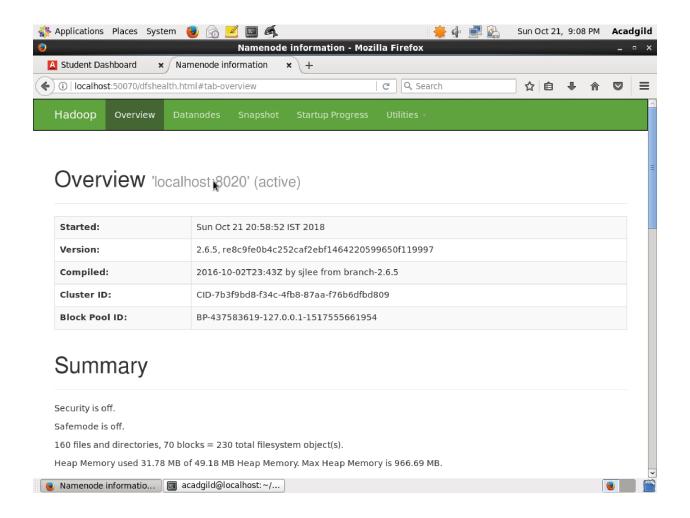
4) Create a file from the terminal using nano editor (example: nano test.txt), and add some content in it. Cat it to see if the content is saved.

Solution:

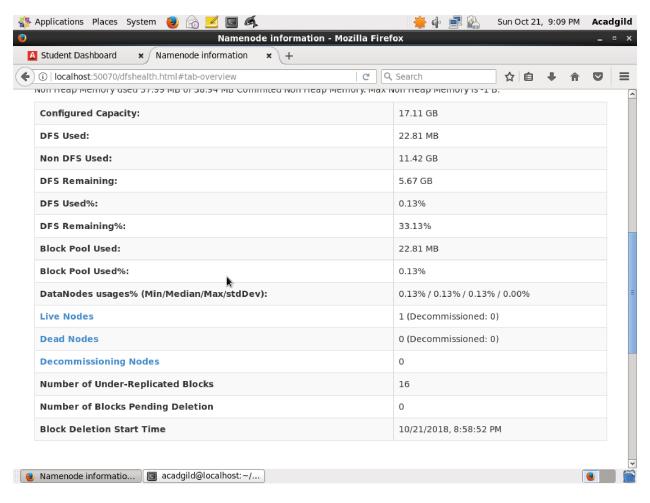


5)Open the hdfs web page by typing localhost:50070 in the browser. Check all the details of the HDFS.

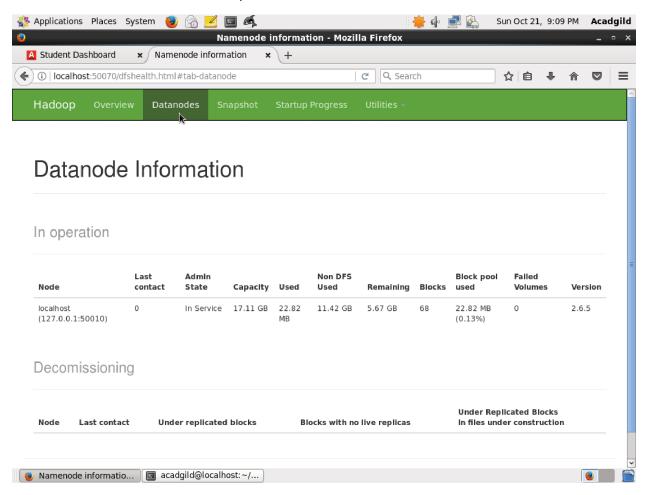
Solution: If all our hadoop services are up and running, then if we hit localhost:50070 in our web browser, we will see the page below. By default the UI port of HDFS cluster is 50070.



Here we can see the different attributes of the hdfs cluster, memory used, number of live nodes, dead nodes etc.



If we click on Datanodes in the header, we can see the information about the data nodes.



We can browse through the directories of hdfs also.

