Assgnment-1

Tasks:

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

Command-./start-all.sh

Description-

Starts all Hadoop daemons, the namenode, datanodes, secondary namenode, he jobtracker and tasktrackers (hadoop1)(the Resource Manager and Nodemanager in hadoop 2) and . Deprecated; use start-dfs.sh then start-mapred.sh

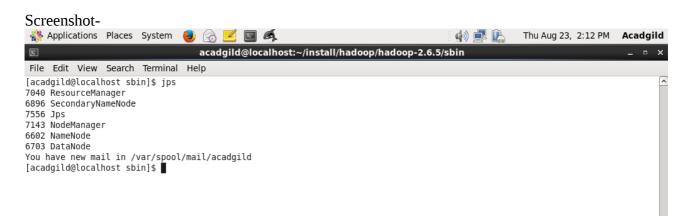
ScreenShot-

```
[acadgild@localhost sbin]$ ./start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/08/23 14:10:12 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Starting namenodes on [localhost]
localhost: starting namenode, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/hadoop-acadgild-namenode-localhost.localdomain.out
localhost: starting datanode, logging to /home/acadgild/install/hadoop/hadoop-2.
6.5/logs/hadoop-acadgild-datanode-localhost.localdomain.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/hadoop-acadgild-secondaryname
node-localhost.localdomain.out
18/08/23 14:10:43 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
starting yarn daemons
starting resourcemanager, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/yarn-acadgild-resourcemanager-localhost.
localdomain.out
localhost: starting nodemanager, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/yarn-acadgild-nodemanager-localho
st.localdomain.out
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost sbin]$
```

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

Command- jps

Description- display list of all java processes.



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

Command – pwd, ls , ls -ls ,cd , mkdir

Description-

pwd – gives current working directory or currrent location ls- Lists files in current directory cd – change directory mkdir- make directory

Screen shot-

[acadgild@localhost sbin]\$ ls start-all.cmd start-secure-dns.sh stop-balancer.sh distribute-exclude.sh httpfs.sh stop-yarn.sh hadoop-daemon.sh kms.sh start-all.sh start-yarn.cmd stop-dfs.cmd yarn-daemon.sh mr-jobhistory-daemon.sh refresh-namenodes.sh start-balancer.sh start-yarn.sh start-dfs.cmd stop-all.cmd staves.sh start-dfs.sh stop-all.sh stop-dfs.sh hadoop-daemons.sh yarn-daemons.sh hdfs-config.cmd hdfs-config.sh stop-secure-dns.sh stop-yarn.cmd [acadgild@localhost sbin]\$ pwd /home/acadgild/install/hadoop/hadoop-2.6.5/sbin [acadgild@localhost sbin]\$

```
[acadgild@localhost sbin]$ ls -ls
total 120
+ -rwxr-xr-x. 1 acadgild acadgild 2752 Oct 3 2016 distribute-exclude.sh
3 -rwxr-xr-x. 1 acadgild acadgild 6452 Oct 3 2016 hadoop-daemon.sh
+ -rwxr-xr-x. 1 acadgild acadgild 1360 Oct 3 2016 hadoop-daemons.sh
4 -rwxr-xr-x. 1 acadgild acadgild 1640 Oct 3 2016 hdfs-config.cmd
1 -rwxr-xr-x. 1 acadgild acadgild 1427 Oct 3 2016 hdfs-config.sh
4 -rwxr-xr-x. 1 acadgild acadgild 2291 Oct 3 2016 httpfs.sh
4 -rwxr-xr-x. 1 acadgild acadgild 2059 Oct 3 2016 kms.sh
1 -rwxr-xr-x. 1 acadgild acadgild 4080 Oct 3 2016 mr-jobhistory-daemon.sh
4 -rwxr-xr-x. 1 acadgild acadgild 1648 Oct 3
                                              2016 refresh-namenodes.sh
4 -rwxr-xr-x. 1 acadgild acadgild 2145 Oct 3 2016 slaves.sh
‡ -rwxr-xr-x. 1 acadgild acadgild 1779 Oct 3 2016 start-all.cmd
1 -rwxr-xr-x. 1 acadgild acadgild 1471 Oct 3 2016 start-all.sh
4 -rwxr-xr-x. 1 acadgild acadgild 1128 Oct 3 2016 start-balancer.sh
1 -rwxr-xr-x. 1 acadgild acadgild 1401 Oct 3 2016 start-dfs.cmd
4 -rwxr-xr-x. 1 acadgild acadgild 3705 Oct 3 2016 start-dfs.sh
4 -rwxr-xr-x. 1 acadgild acadgild 1357 Oct 3 2016 start-secure-dns.sh
1 -rwxr-xr-x. 1 acadgild acadgild 1571 Oct 3 2016 start-yarn.cmd
4 -rwxr-xr-x. 1 acadgild acadgild 1347 Oct 3 2016 start-yarn.sh
+ -rwxr-xr-x. 1 acadgild acadgild 1770 Oct 3 2016 stop-all.cmd
4 -rwxr-xr-x. 1 acadgild acadgild 1462 Oct 3 2016 stop-all.sh
4 -rwxr-xr-x. 1 acadgild acadgild 1179 Oct 3 2016 stop-balancer.sh
1 -rwxr-xr-x. 1 acadgild acadgild 1455 Oct 3 2016 stop-dfs.cmd
‡ -rwxr-xr-x. 1 acadgild acadgild 3206 Oct 3 2016 stop-dfs.sh
+ -rwxr-xr-x. 1 acadgild acadgild 1340 Oct 3 2016 stop-secure-dns.sh
4 -rwxr-xr-x. 1 acadgild acadgild 1642 Oct 3 2016 stop-yarn.cmd
1 -rwxr-xr-x. 1 acadgild acadgild 1340 Oct 3 2016 stop-yarn.sh
3 -rwxr-xr-x. 1 acadgild acadgild 4295 Oct 3 2016 yarn-daemon.sh
‡ -rwxr-xr-x. 1 acadgild acadgild 1353 Oct 3 2016 yarn-daemons.sh
[acadgild@localhost sbin]$
```

```
File Edit View Search Terminal Help

acadgild@localhost sbin]$ cd /home/acadgild/
ou have new mail in /var/spool/mail/acadgild
acadgild@localhost ~]$ pwd
'home/acadgild
acadgild@localhost ~]$ mkdir DemoFiles
acadgild@localhost ~]$ cd DemoFiles/
acadgild@localhost DemoFiles]$
```

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.

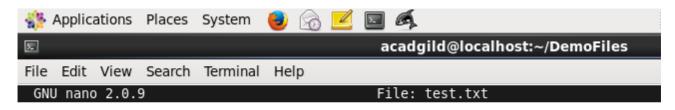
Command : nano test.txt cat test.txt

Description-

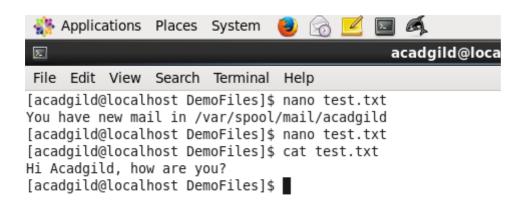
Nano is a modeless editor so you can start typing immediately to insert text. If you want to save the changes you've made, press Ctrl + 0. To exit nano, type Ctrl + X. If you ask nano to exit from a modified file, it will ask you if you want to save it. Just press N in case you don't, or Y in case you do. It will then ask you for a filename. Just type it in and press Enter.

If you accidentally confirmed that you want to save the file but you actually don't, you can always cancel by pressing Ctrl + C when you're prompted for a filename.

Screenshot:



Hi Acadgild, how are you?



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

Description- Open Browser and type localhost:50070 in the browser. It will redirect to hdfs web page .Summary of the HDFS file system is listed on the overview page

Screenshot:

