Session 1: BIG DATA & HADOOP –

INTRODUCTION & CASE STUDIES

Assignment 1

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

```
[acadgild@localhost ~]$ echo $HADOOP_HOME
/home/acadgild/install/hadoop/hadoop-2.6.5
[acadgild@localhost ~]$ cd $HADOOP_HOME
[acadgild@localhost hadoop-2.6.5]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/08/13 14:08:52 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/ha
doop-2.6.5/logs/hadoop-acadgild-secondarynamenode-localhost.localdomain.out
18/08/13 14:11:36 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes 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-localhost.localdomain.out
```

2) Run a JPS command to see if all Hadoop daemons are running.
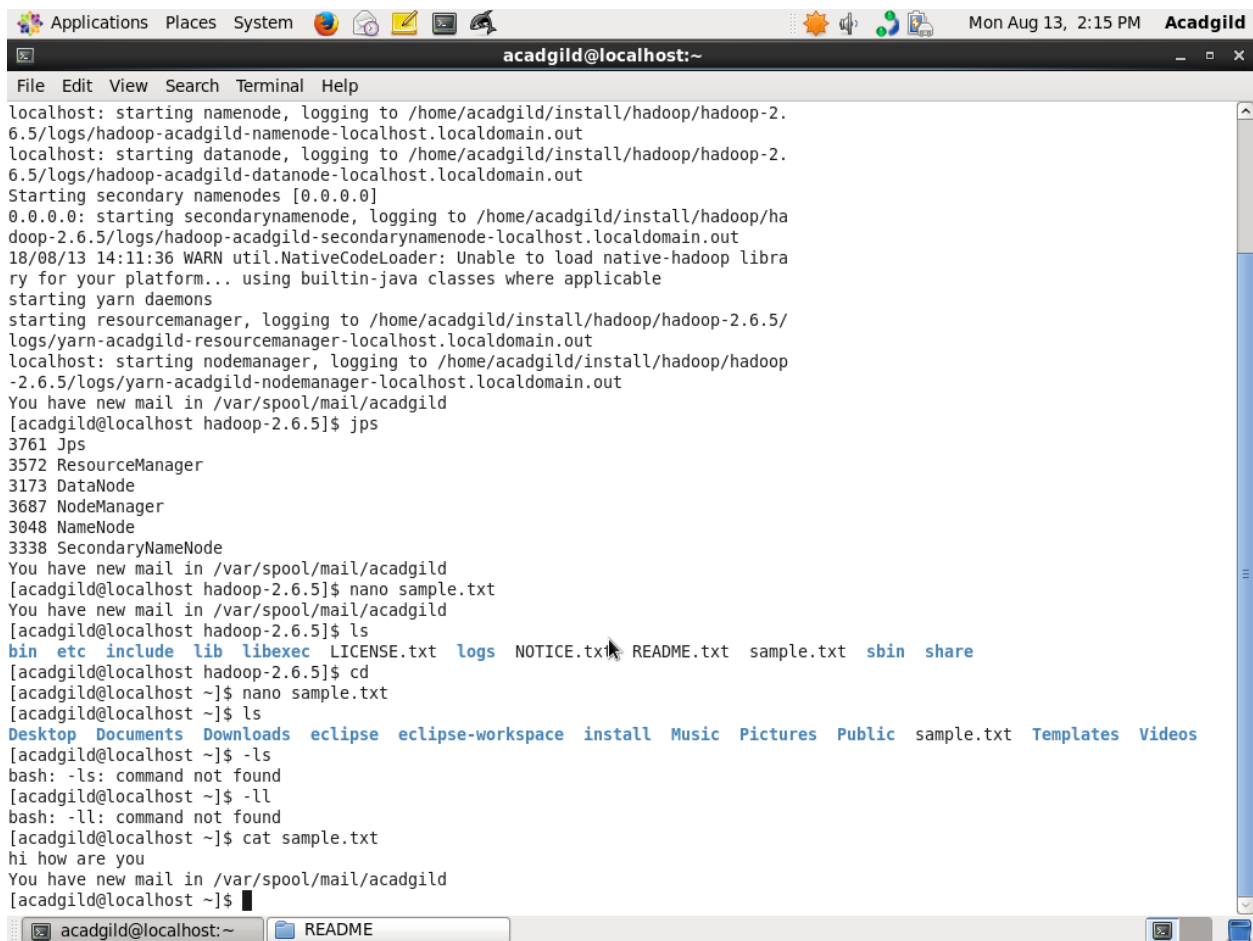
```
[acadgild@localhost hadoop-2.6.5]$ jps
3761 Jps
3572 ResourceManager
3173 DataNode
3687 NodeManager
3048 NameNode
3338 SecondaryNameNode
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost hadoop-2.6.5]$
```

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.

Namenode information - Mozilla Firefox

Namenode information ✕ +

← → ⓘ localhost:50070/dfshealth.html#tab-overview ↻ 🔍 Search ☆ 📋 ⬇ 🏠 ▽ ≡

| Hadoop | Overview | Datanodes | Snapshot | Startup Progress | Utilities ▾ |

Overview 'localhost:8020' (active)

Started:	Mon Aug 13 14:10:01 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.

26 files and directories, 3 blocks = 29 total filesystem object(s).

Heap Memory used 31.62 MB of 49.21 MB Heap Memory. Max Heap Memory is 966.69 MB.

🖥 acadgild@localhost:~ 📁 [README] 🦊 Namenode informatio... 🦊 🔲