ASSIGNMENT 1

BIG DATA & HADOOP - INTRODUCTION

1. Start Hadoop single node on AcadGild VM

Command: start-all.sh

Starts the Hadoop DFS daemons, NameNode, DataNode, ResourceManager, NodeManager. The below screenshot shows the daemons starting.

```
[acadgild@localhost -]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/07/29 11:42:07 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-2.6.5/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: starting secondarynamenode, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/hadoop-acadgild-secondarynamenode-localhost.localdomain.out
18/07/29 11:43:11 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-2.6.5/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

Command: jps

JPS (Java Virtual Machine Process Status Tool) is a command used to check all the Hadoop daemons like NameNode, DataNode, ResourceManager, NodeManager etc. which are running on the machine.

The below screenshot shows the output of **jps** command.

```
[acadgild@localhost ~]$ jps
6112 ResourceManager
5650 NameNode
5747 DataNode
5943 SecondaryNameNode
6216 NodeManager
6568 Jps
```

3. Unix commands

Command: pwd

The **pwd** command displays the full pathname of the current directory.

```
[acadgild@localhost ~]$ pwd
/home/acadgild
```

Command: Is

The Is command is used to list all the files in the current directory. The "-I" option is used for long listing.

```
[acadgild@localhost ~]$ ls -l
total 44
             3 acadgild acadgild 4096 Feb
drwxr-xr-x.
                                           2 12:51 Desktop
             2 acadgild acadgild 4096 Feb
                                           2 12:52 Documents
drwxr-xr-x.
             2 acadgild acadgild 4096 Feb 13 14:24 Downloads
drwxr-xr-x.
             3 acadgild acadgild 4096 Dec 29
                                              2017 eclipse
drwxrwxr-x.
            3 acadgild acadgild 4096 Jan 16
                                             2018 eclipse-workspace
drwxrwxr-x.
drwxrwxr-x. 13 acadgild acadgild 4096 Feb
                                          9 18:06 install
drwxr-xr-x.
             2 acadgild acadgild 4096 Dec 27
                                              2017 Music
             2
               acadgild acadgild 4096 Dec 27
                                              2017 Pictures
             2
               acadgild acadgild 4096 Dec 27
                                              2017 Public
             2
               acadgild acadgild 4096 Dec 27
                                              2017 Templates
               acadgild acadgild 4096 Dec 27
                                              2017 Videos
```

4. Create a file using Nano editor and view the contents of file

Nano is a text editor for Unix-like systems or any other environments using a command line interface. After creating a file, to view the contents of the file use **cat** command.

```
[acadgild@localhost ~]$ nano
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cat test.txt
Welcome to Acadgild!
[acadgild@localhost ~]$
```

5. Open HDFS webpage

Enter the URL as http://localhost:50070/ in web browser to open the HDFS web UI.

