# 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.



## 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.



## 3. Unix commands

**Command:** pwd

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

**Command:** ls

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

```
[acadgild@localhost ~]$ ls -l
total 44
drwxr-xr-x.  3 acadgild acadgild 4096 Feb  2 12:51 Desktop
drwxr-xr-x.  2 acadgild acadgild 4096 Feb  2 12:52 Documents
drwxr-xr-x.  2 acadgild acadgild 4096 Feb 13 14:24 Downloads
drwxrwxr-x.  3 acadgild acadgild 4096 Dec 29  2017 eclipse
drwxrwxr-x.  3 acadgild acadgild 4096 Jan 16  2018 eclipse-workspace
drwxrwxr-x. 13 acadgild acadgild 4096 Feb  9 18:06 install
drwxr-xr-x.  2 acadgild acadgild 4096 Dec 27  2017 Music
drwxr-xr-x.  2 acadgild acadgild 4096 Dec 27  2017 Pictures
drwxr-xr-x.  2 acadgild acadgild 4096 Dec 27  2017 Public
drwxr-xr-x.  2 acadgild acadgild 4096 Dec 27  2017 Templates
drwxr-xr-x.  2 acadgild acadgild 4096 Dec 27  2017 Videos
```
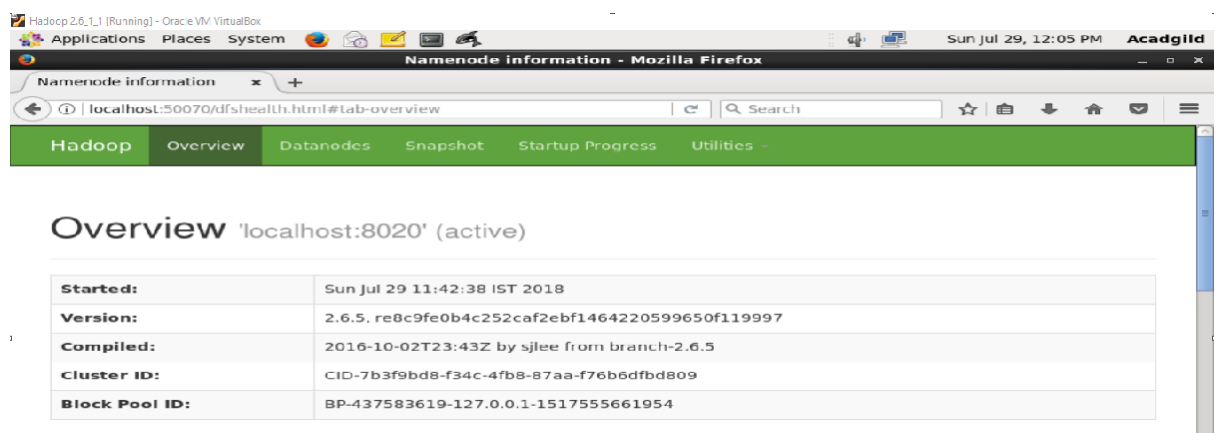
4. **Create a file using Nano editor and view the contents of file**

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.