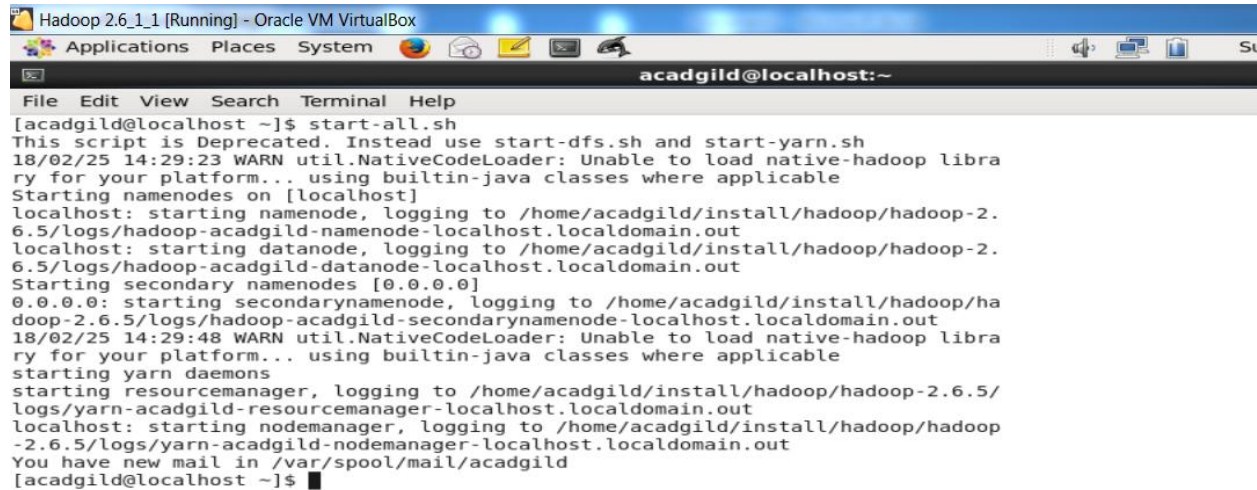


# Assignment-1

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

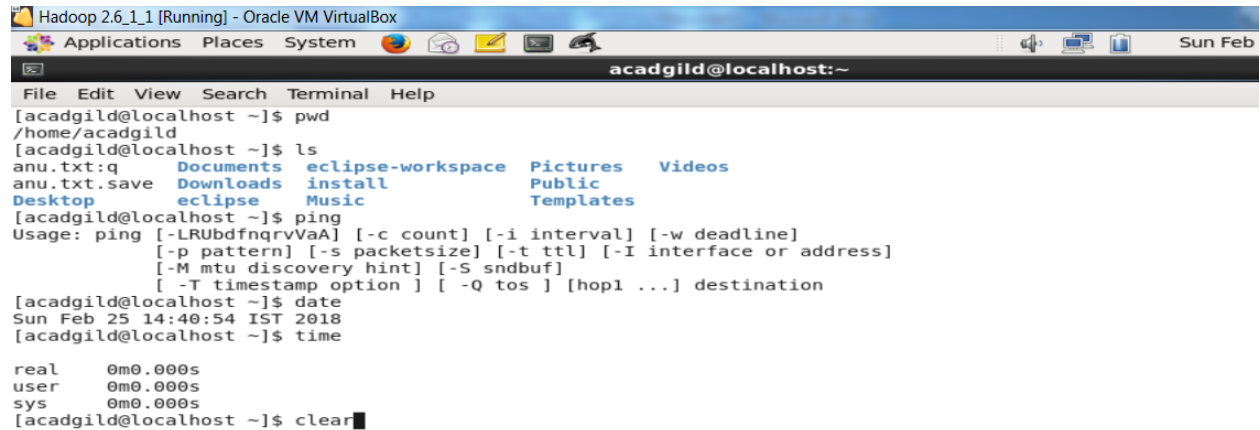


```
Hadoop 2.6_1_1 [Running] - Oracle VM VirtualBox
Applications Places System
acadgild@localhost:~
File Edit View Search Terminal Help
[acadgild@localhost ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/02/25 14:29:23 WARN util.NativeCodeLoader: Unable to load 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
doo-2.6.5/logs/hadoop-acadgild-secondarynamenode-localhost.localdomain.out
18/02/25 14:29:48 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
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

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

```
18/02/25 14:29:23 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]
0.0.0.0: starting secondarynamenode, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/hadoop-acadgild-secondarynamenode-localhost.localdomain.out
18/02/25 14:29:48 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
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ jps
3040 NameNode
3141 DataNode
3478 ResourceManager
3334 SecondaryNameNode
3581 NodeManager
3950 Jps
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

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



```
Hadoop 2.6.1_1 [Running] - Oracle VM VirtualBox
Applications Places System
acadgild@localhost:~
File Edit View Search Terminal Help
[acadgild@localhost ~]$ pwd
/home/acadgild
[acadgild@localhost ~]$ ls
anu.txt:q Documents eclipse-workspace Pictures Videos
anu.txt.save Downloads install Public
Desktop eclipse Music Templates
[acadgild@localhost ~]$ ping
Usage: ping [-LRUbdfnqrVvA] [-c count] [-i interval] [-w deadline]
[-p pattern] [-s packetsize] [-t ttl] [-I interface or address]
[-M mtu discovery hint] [-S sndbuf]
[-T timestamp option] [-Q tos] [hop1 ...] destination
[acadgild@localhost ~]$ date
Sun Feb 25 14:40:54 IST 2018
[acadgild@localhost ~]$ time
real    0m0.000s
user    0m0.000s
sys     0m0.000s
[acadgild@localhost ~]$ clear
```

- pwd- Gives the path you are working
- ls- lists the files
- date-gives the date
- time-gives the time
- ping-check if remote server host is up
- clear- to clear the screen

### 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.

```
[acadgild@localhost ~]$ nano test.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cat test.txt
HELLO I M HERE, ANUSHA HERE
[acadgild@localhost ~]$
```

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

Hadoop 2.6\_1.1 [Running] - Oracle VM VirtualBox

ApplicationsPlacesSystem

Namenode information - Mozilla Firefox

localhost:50070/dfshealth.html#tab-datanode

Search

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Hadoop

Overview

Datanodes

Snapshot

Startup Progress

Utilities

# Datanode Information

In operation

Node	Last contact	Admin State	Capacity	Used	Non DFS Used	Remaining	Blocks	Block pool used	Failed Volumes	Version
localhost (127.0.0.1:50010)	1	In Service	17.11 GB	200 KB	11.71 GB	5.4 GB	3	200 KB (0%)	0	2.6.5

Decomissioning

Node	Last contact	Under replicated blocks	Blocks with no live replicas	Under Replicated Blocks In files under construction
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