1) **Launching single node hadoop cluster**

command : start-all.sh

[acadgild@localhost ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/05/06 00:28:12 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
18/05/06 00:28:46 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

Screenshot :

```
acadgild@localhost:~

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[acadgild@localhost ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/05/06 00:28:12 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/ha
doop-2.6.5/logs/hadoop-acadgild-secondarynamenode-localhost.localdomain.out
18/05/06 00:28:46 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
```

2) Executing JPS command to check what are the hadoop components are running currently.

command : JPS

[acadgild@localhost ~]$ jps

4192 NameNode
4290 DataNode
4627 ResourceManager
5108 Jps
4726 NodeManager
4426 SecondaryNameNode
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$

Screenshot:

```
acadgild@localhost:~/Desktop

File  Edit  View  Search  Terminal  Help

[acadgild@localhost ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/05/06 00:28:12 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/ha
doop-2.6.5/logs/hadoop-acadgild-secondarynamenode-localhost.localdomain.out
18/05/06 00:28:46 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 ~]$ jps
4192 NameNode
4290 DataNode
4627 ResourceManager
5108 Jps
4726 NodeManager
4426 SecondaryNameNode
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ pwd
```

3) executing basic linux shell commands

Command : PWD , ls, cd, mkdir,rmdir,man

```
[acadgild@localhost ~]$ pwd
/home/acadgild
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ls
Desktop Documents Downloads eclipse eclipse-workspace install Music Pictures Public Templates Videos
[acadgild@localhost ~]$ cd Desktop
[acadgild@localhost Desktop]$ pwd
/home/acadgild/Desktop
[acadgild@localhost Desktop]$ man cd
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Desktop]$ mkdir sample
[acadgild@localhost Desktop]$ ls
Assignment1_05052018 Assignment1_05052018~ bashrc.txt~ README sample Screenshot1.png
[acadgild@localhost Desktop]$ rmdir sample
[acadgild@localhost Desktop]$ ls
Assignment1_05052018 Assignment1_05052018~ bashrc.txt~ README Screenshot1.png
```

Screenshot:

```
[acadgild@localhost ~]$ pwd
/home/acadgild
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ls
Desktop  Documents  Downloads  eclipse  eclipse-workspace  install  Music  Pictures  Public  Templates  Vid
[acadgild@localhost ~]$ cd Desktop
[acadgild@localhost Desktop]$ pwd
/home/acadgild/Desktop
[acadgild@localhost Desktop]$ man cd
              return value is 0.

       declare [-aAfFilrtux] [-p] [name[=value] ...]
       typeset [-aAfFilrtux] [-p] [name[=value] ...]
              Declare variables and/or give them attributes.  If no names are given then display  the
              values  of  variables.   The  -p  option will display the attributes and values of each
              name.  When -p is used with name arguments, additional options are ignored.  When -p is
              supplied without name arguments, it will display the attributes and values of all vari-
              ables having the attributes specified by the additional options.  If no  other  options
              are supplied with -p, declare will display the attributes and values of all shell vari-
              ables.  The -f option will restrict the display to  shell  functions.   The  -F  option
```

```
                  acadgild@localhost:~/Desktop

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     option is expected to have an argument, which should be  separated  from  it  by  white
     space.   The  colon  and question mark characters may not be used as option characters.
     Each time it is invoked, getopts places the next option in  the  shell  variable  name,
     initializing  name  if it does not exist, and the index of the next argument to be pro-
     cessed into the variable OPTIND.  OPTIND is initialized to 1 each time the shell  or  a
     shell  script  is  invoked.   When  an option requires an argument, getopts places that
     argument into the variable OPTARG.  The shell does not reset OPTIND  automatically;  it
     must  be manually reset between multiple calls to getopts within the same shell invoca-
     tion if a new set of parameters is to be used.

     When the end of options is encountered, getopts exits with a return value greater  than
     zero.    OPTIND is set to the index of the first non-option argument, and name is set to
     ?.
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Desktop]$ mkdir sample
[acadgild@localhost Desktop]$ ls
Assignment1_05052018  Assignment1_05052018~  bashrc.txt~  README  sample  Screenshot1.png
[acadgild@localhost Desktop]$ rmdir sample
[acadgild@localhost Desktop]$ ls
Assignment1_05052018  Assignment1_05052018~  bashrc.txt~  README  Screenshot1.png
```
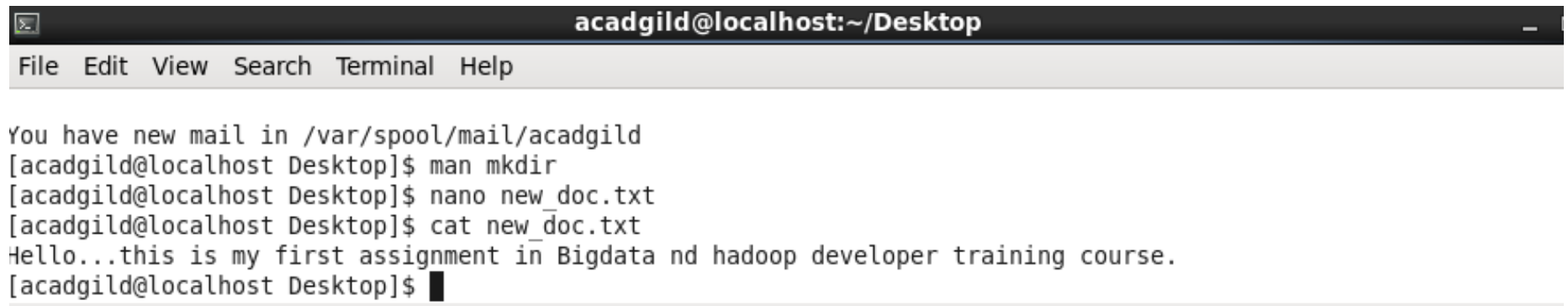
4) creating and working with nano editor

Commands: nano , CAT

[acadgild@localhost Desktop]$ nano new_doc.txt
[acadgild@localhost Desktop]$ cat new_doc.txt
Hello...this is my first assignment in Bigdata nd hadoop developer training course.
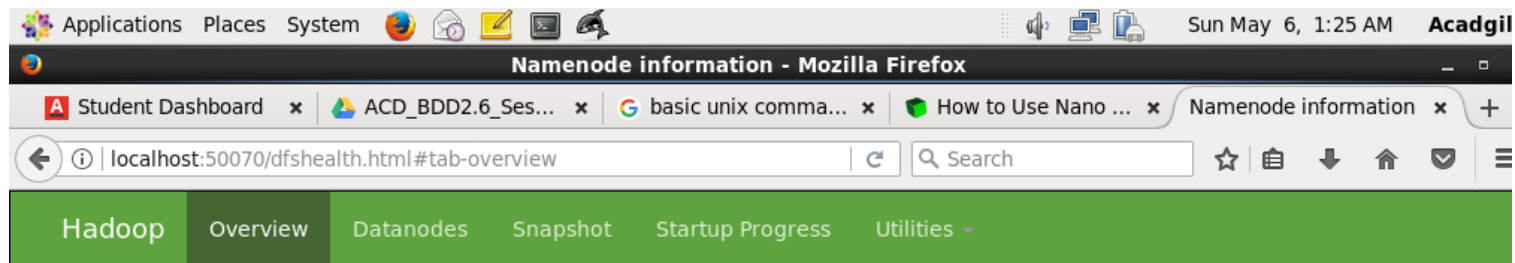[acadgild@localhost Desktop]$

Screenshot :

5) Opening Hadoop through web browser.

Namenode information - Mozilla Firefox

localhost:50070/dfshealth.html#tab-overview

Search

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Overview 'localhost:8020' (active)

Started:	Sun May 06 00:28:23 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 28.38 MB of 49.23 MB Heap Memory. Max Heap Memory is 966.69 MB.