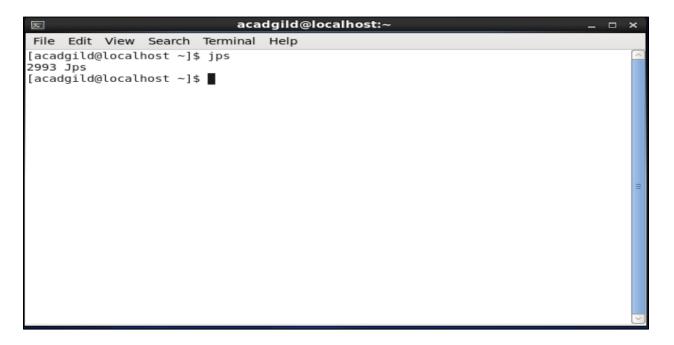
## 1. Jps command

- The Java Virtual Machine has a jps tool wich is a bit like the ps command. jps lists all java Processes of a user.
- Using this command, the daemons' status of hadoop in VM can be retrieve.



### 2. Start-all.sh

- This command starts all the hadoop daemons' the namenode, datanodes, the jobtracker and tasktrackers.
- This command is Deprecated; it is recommended to use **start**-dfs.**sh** then **start**-mapred.**sh**.

```
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
18/03/01 05:03:57 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: secondarynamenode running as process 3304. Stop it first.
18/03/01 05:04:30 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 ~]$ 🛮
```

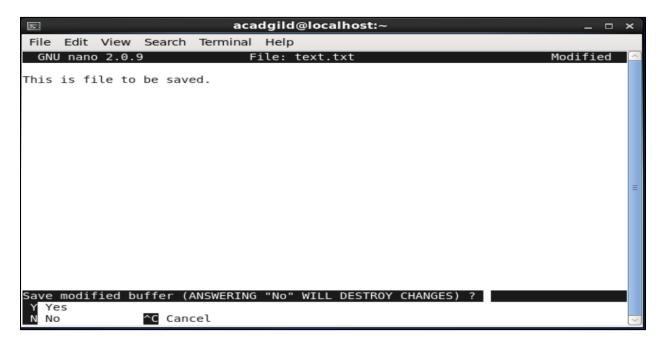


# 3. Creating a File using Nano Editor

- Nano [name of a file]
- This command creates file with given file name and provides editor to start inserting text in the same file e.g. nano test.txt



- Once file is created you can,
  - Save the changes by just pressing CTRL + 0
  - To exit from nano editor press CTRL + X
  - If exiting from modified file, nano editor will prompt for saving the file with options Y / N.
  - o Press Y to save. It may ask for file name to be saved as Press enter.



### 4. Is commands

- is a Linux shell command that lists directory contents of files and directories.

```
acadgild@localhost:\sim
     Edit View Search Terminal
                                Help
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ls
Desktop
           eclipse
                              input2.txt Pictures
                                                      text.txt
                                          Public
Documents
          eclipse-workspace
                              install
                                                      Videos
         input1.txt
Downloads
                              Music
                                          Templates
[acadgild@localhost ~]$ ■
```

- Is [options] [file|dir]
- Is- Is
  - ist with long format with file size

```
acadgild@localhost:~
 File Edit View Search Terminal Help
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ls -ls
total 56
                4 acadgild acadgild 4096 Feb 25 02:42 Desktop
4 drwxr-xr-x.
4 drwxr-xr-x. 2 acadgild acadgild 4096 Feb
                                                2 12:52 Documents
4 drwxr-xr-x. 2 acadgild acadgild 4096 Feb
                                                 9 11:03 Downloads
4 drwxrwxr-x.
                3 acadgild acadgild 4096 Dec 29 16:59 eclipse
4 drwxrwxr-x. 3 acadgild acadgild 4096 Jan 16 14:02 eclipse-workspace
4 -rw-rw-r--. 1 acadgild acadgild
4 -rw-rw-r--. 1 acadgild acadgild
                                        63 Feb 25 02:24 input1.txt
                                        43 Feb 25 10:34 input2.txt
4 drwxrwxr-x. 13 acadgild acadgild 4096 Feb
                                                 9 18:06 install
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Music
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Pictures
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
4 drwxr-xr-x.
                2 acadgild acadgild 4096 Dec 27 17:03 Templates
4 -rw-rw-r--.
                1 acadgild acadgild
                                        26 Mar 1 05:13 text.txt
4 drwxr-xr-x.
                2 acadgild acadgild 4096 Dec 27 17:03 Videos
[acadgild@localhost ~]$
```

- Is -la
  - o list long format including hidden files

```
Thu Mar 1. 5:18 AM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Acadgild
                                                                                                                                                                                                      acadgild@localhost:-
                      Edit View
                                                               Search Terminal Help
4096 Mar 1 05:13
4096 Dec 27 17:01
4096 Dec 27 17:03
19962 Feb 25 11:29
18 Mar 23 2017
176 Mar 23 2017
                                                                                                                                                                                                           .abrt
.bash_history
.bash_logout
.bash_profile
.bashrc
                                                                                                                                   176 Mar 23 7017

1821 Feb 9 11:32

1821 Jan 31 18:18

4096 Dec 29 16:07

4096 Dec 27 19:19

4096 Dec 27 17:03

4096 Dec 27 17:03

4096 Feb 25 02:42

32 Mar 1 04:52

4096 Feb 9 11:03

4096 Feb 9 11:03

4096 Feb 29 16:59
                                                                                                                                                                                                         .bashrc
.bashrc~
.beeline
.cache
.config
.dbus
Desktop
.dmrc
                                                                                                                                                                                                         Documents
                                                                                                                                     4096 Feb
4096 Dec
                                                                                                                                                                                                         Downloads
                                                                                                                                  4096 Dec 29 16:59 eclipse
4096 Dec 29 16:59 eclipse
4096 Dec 29 16:59 eclipse
4096 Jan 16 14:02 eclipse-w
16 Dec 27 17:03 .esd auth
4096 Jan 8 19:52 .fontconf
4096 Mar 1 04:52 .gconf
4096 Dec 27 17:77 .gnome2
4096 Dec 27 17:03 .gnote
4096 Mar 1 04:52 .gtk-book
4096 Dec 27 17:03 .gris
132 Feb 9 14:50 .hivehist
8370 Mar 1 04:52 .ICEauthe
641 Mar 1 04:52 .ICEauthe
641 Mar 1 04:52 .imsettir
63 Feb 25 02:24 input1.tx
43 Feb 25 10:34 input2.tx
4096 Feb 9 18:06 install
4096 Dec 27 17:03 .local
                                                                                                                                                                      29 16:59
29 16:59
                                                                                                                                                                                                         eclipse
                                                                                                                                                                                                                                            vorkspace
                                                                                                                                                                                                        eclipse-work
.esd_auth
.fontconfig
.gconf
.gnome2
.gnote
                                                                                                                                                                                                             .gnupg
.gtk-bookmarks
                                                                                                                                                                                                             .gvfs
.hivehistory
                                                                                                                                                                                                            .ICEauthority
                                                                                                                                                                                                        .insettings.log
input1.txt
input2.txt
install
.local
```

# 5. pwd

- To know which directory we are in, we can use the "pwd" command. It gives us the absolute path, which means the path that starts from the root. The root is the base of the Linux file system.



### 6. rm

- This command is used to delete files and directories. But **rm** cannot simply delete a directory. Use "**rm** -**r**" to delete a directory.

```
💨 Applications Places System 🍪 🛜 🗾 🙈
                                                   acadgild@localhost:~
>_
File Edit View Search Terminal Help
[acadgild@localhost ~]$ rm text.txt
[acadgild@localhost ~]$ ls -ls
total 52
4 drwxr-xr-x.
               4 acadgild acadgild 4096 Feb 25 02:42 Desktop
4 drwxr-xr-x.
              2 acadgild acadgild 4096 Feb 2 12:52 Documents
4 drwxr-xr-x.
               2 acadgild acadgild 4096 Feb
                                             9 11:03 Downloads
4 drwxrwxr-x.
              3 acadgild acadgild 4096 Dec 29 16:59 eclipse
4 drwxrwxr-x.
               3 acadgild acadgild 4096 Jan 16 14:02 eclipse-workspace
 -rw-rw-r--. 1 acadgild acadgild
                                    63 Feb 25 02:24 input1.txt
 -rw-rw-r--.
              1 acadgild acadgild
                                     43 Feb 25 10:34 input2.txt
4 drwxrwxr-x. 13 acadgild acadgild 4096 Feb
                                            9 18:06 install
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Music
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Pictures
4 drwxr-xr-x.
              2 acadgild acadgild 4096 Dec 27 17:03 Public
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Templates
               2 acadgild acadgild 4096 Dec 27 17:03 Videos
4 drwxr-xr-x.
[acadgild@localhost ~]$
```

#### 7. mkdir - creates a folder

```
2
  File
           Edit View Search Terminal Help
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ mkdir testing
[acadgild@localhost ~]$ ls -ls
total 56
4 drwxr-xr-x.
                  4 acadgild acadgild 4096 Feb 25 02:42 Desktop
4 drwxr-xr-x. 2 acadgild acadgild 4096 Feb 2 12:52 Documents
4 drwxr-xr-x. 2 acadgild acadgild 4096 Feb
                                                        9 11:03 Downloads
4 drwxrwxr-x. 3 acadgild acadgild 4096 Dec 29 16:59 eclipse
4 drwxrwxr-x. 3 acadgild acadgild 4096 Jan 16 14:02 eclipse-workspace
4 -rw-rw-r--. 1 acadgild acadgild 63 Feb 25 02:24 input1.txt
                   1 acadgild acadgild
                                               63 Feb 25 02:24 input1.txt
4 -rw-rw-r--.
4 -rw-rw-r--. 1 acadgild acadgild
                                               43 Feb 25 10:34 input2.txt
4 drwxrwxr-x. 13 acadgild acadgild 4096 Feb
                                                        9 18:06 install
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Music
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Pictures
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Templates
4 drwxrwxr-x. 2 acadgild acadgild 4096 Mar 1 05:24 testing
                   2 acadgild acadgild 4096 Dec 27 17:03 Videos
4 drwxr-xr-x.
[acadgild@localhost ~]$
```

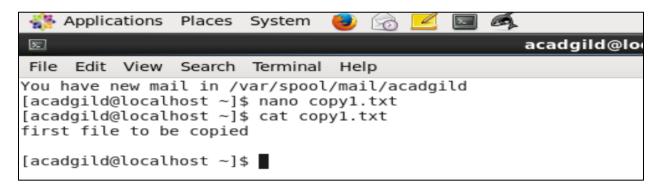
#### 8. rmdir

to delete a directory. But **rmdir** can only be used to delete an *empty* directory. To delete a directory containing files, use **rm**.

```
File Edit View Search Terminal Help
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ rmdir testing
[acadgild@localhost ~]$ ls -ls
total 52
4 drwxr-xr-x. 4 acadgild acadgild 4096 Feb 25 02:42 Desktop
4 drwxr-xr-x. 2 acadgild acadgild 4096 Feb 2 12:52 Documents
4 drwxr-xr-x. 2 acadgild acadgild 4096 Feb 9 11:03 Downloads
4 drwxrwxr-x. 3 acadgild acadgild 4096 Dec 29 16:59 eclipse
4 drwxrwxr-x. 3 acadgild acadgild 4096 Jap 16 14:03 colinse
4 drwxrwxr-x.
                 3 acadgild acadgild 4096 Jan 16 14:02 eclipse-workspace
4 -rw-rw-r--. 1 acadgild acadgild
                                            63 Feb 25 02:24 input1.txt
4 -rw-rw-r--. 1 acadgild acadgild
                                            43 Feb 25 10:34 input2.txt
4 drwxrwxr-x. 13 acadgild acadgild 4096 Feb
                                                    9 18:06 install
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Music 4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Pictu
                 2 acadgild acadgild 4096 Dec 27 17:03 Pictures
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Public
4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Templates 4 drwxr-xr-x. 2 acadgild acadgild 4096 Dec 27 17:03 Videos
[acadgild@localhost ~]$
```

### 9. cp

- this command is used to copy files through the command line. It takes two arguments: The first is the location of the file to be copied, the second is where to copy.
- Content of first file to be copied



Copied file to another location

```
[acadgild@localhost ~]$ cp copy1.txt /home/acadgild/Desktop/Prachi
[acadgild@localhost ~]$ ls /home/acadgild/Desktop/Prachi
copy1.txt Day5 new file
[acadgild@localhost ~]$ ls -ls /home/acadgild/Desktop/Prachi
total 8
4 -rw-rw-r--. 1 acadgild acadgild 25 Mar 1 05:30 copy1.txt
4 drwxrwxr-x. 3 acadgild acadgild 4096 Feb 25 10:24 Day5
0 -rw-rw-r--. 1 acadgild acadgild 0 Feb 25 09:31 new file
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ■
```

#### 10. echo

- The "echo" command helps us move some data, usually text into a file.

```
File Edit View Search Terminal Help

You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ echo this is appended text to copy1.txt >>copy1.txt
[acadgild@localhost ~]$ cat copy1.txt
first file to be copied

this is appended text to copy1.txt
[acadgild@localhost ~]$
```

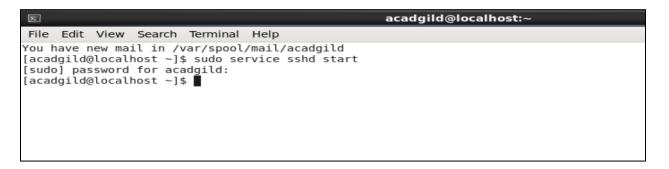
#### 11. cat

 This command is to display the contents of a file. It is usually used to easily view programs.

```
[acadgild@localhost ~]$ cat copy1.txt
first file to be copied
this is appended text to copy1.txt
[acadgild@localhost ~]$ ■
```

#### **12.** sudo

A widely used command in the Linux command line, sudo stands for "SuperUser Do".
 So, if you want any command to be done with administrative or root privileges, you can use the sudo command.

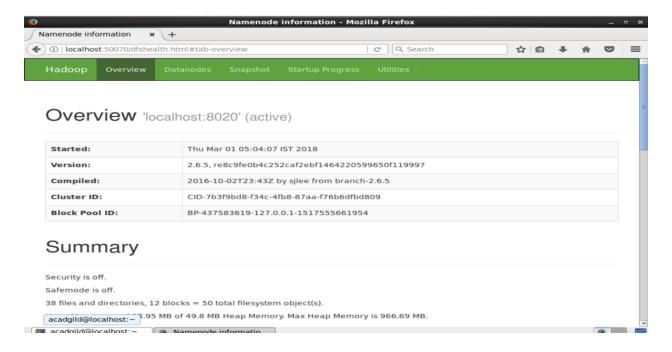


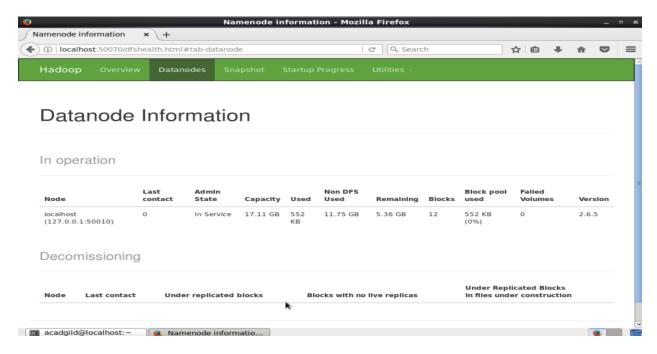
# 13. If config

- ifconfig stands for "interface configuration". It is used to view and change the configuration of the network interfaces on your system.

```
File Edit View Search Terminal Help
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ifconfig
          Link encap:Ethernet HWaddr 08:00:27:49:99:91
eth12
          inet addr:192.168.0.3 Bcast:192.168.0.255 Mask:255.255.25
          inet6 addr: fe80::a00:27ff:fe49:9991/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:71572 errors:0 dropped:0 overruns:0 frame:0
          TX packets:30942 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:107776191 (102.7 MiB)
                                          TX bytes:2304677 (2.1 MiB)
eth13
          Link encap:Ethernet HWaddr 08:00:27:C3:39:0F
          inet addr:10.0.2.15
                               Bcast:10.0.2.255 Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fec3:390f/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:2 errors:0 dropped:0 overruns:0 frame:0
          TX packets:8 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:1180 (1.1 KiB) TX bytes:1152 (1.1 KiB)
lo
          Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU:65536 Metric:1
          RX packets:8119 errors:0 dropped:0 overruns:0 frame:0
          TX packets:8119 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:1159286 (1.1 MiB) TX bytes:1159286 (1.1 MiB)
[acadgild@localhost ~]$
```

# **Details Of HDFS**





Write about dfs health page