

- 1) Check whether all Hadoop daemons are running or not
[acadgild@localhost ~]\$ jps

```
Last login: Wed Oct  3 19:16:26 2018 from 192.168.1.6
[acadgild@localhost ~]$ jps
5939 Jps
[acadgild@localhost ~]$
```

As there are no services are running , on command prompt running start-all.sh

[acadgild@localhost ~]\$ start-all.sh

```
[acadgild@localhost ~]$ start-all.sh
This script is deprecated. Instead use start-dfs.sh and start-yarn.sh
18/10/03 20:03:38 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
18/10/03 20:03:57 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 ~]$
```

- 2) Now RUN JPS command
[acadgild@localhost ~]\$ jps

```
[acadgild@localhost ~]$ jps
6112 NameNode
6643 NodeManager
7012 Jps
6237 DataNode
6542 ResourceManager
6399 SecondaryNameNode
[acadgild@localhost ~]$
```

- 3) Important Linux commands

- a) pwd : it will show the absolute path of the current location

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

- b) ls : It will display the files which presents in that directory

```
[acadgild@localhost ~]$ ls
acadgildPractice  Documents  eclipse-workspace  install  pig_1538240957927.log  pig_1538788976955.log  pig_1538832842573.log  Videos
b.pigout          Downloads  employee.java      Music    pig_1538245885784.log  pig_1538812909386.log  Public
Desktop           eclipse    employee.txt.save  Pictures pig_1538706539880.log  pig_1538832228813.log  Templates
You have new mail in /var/spool/mail/acadgild
```

Ls -a : It will display all the files including hidden files which presents in that directory

```
[acadgild@localhost ~]$ ls -a
.                  .beeline          eclipse            .gnote            .m2              pig_1538245885784.log .pulse            Videos
..                 b.pigout          .eclipse          .gnupg            .mozilla         pig_1538706539880.log .pulse-cookie    .viminfo
.abrt              .cache            eclipse-workspace .gtk-bookmarks   Music            pig_1538788976955.log .scala_history   .webclipse
acadgildPractice .config           employee.java     .gvfs            .mysql_history   pig_1538812909386.log .scalaide        .webclipse.properties
.bash_history     .dbus            employee.txt.save .hivehistory     .nautilus        pig_1538832228813.log .ssh             .Xauthority
.bash_logout     Desktop          .esd_auth        .ICEauthority    .oracle_jre_usage pig_1538832842573.log .swt             .xsession-errors
.bash_profile    .dmrc            .fontconfig      .imsettings.log  .p2              pig_1538832842573.log .tooling         .xsession-errors.old
.bashrc          Downloads        .gconf           install          Pictures          .pki
.bashrc~         .gnome2          .local           pig_1538240957927.log Public
```

- c) mkdir : to create a new folder

```
[acadgild@localhost ~]$ mkdir satya
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ls
acadgildPractice Documents eclipse-workspace install pig_1538240957927.log pig_1538788976955.log pig_1538832842573.log Templates
p.pigout Downloads employee.java Music pig_1538245885784.log pig_1538812909386.log Public Videos
Desktop eclipse employee.txt.save Pictures pig_1538706539880.log pig_1538832228813.log satya
[acadgild@localhost ~]$ cd satya
```

- d) cp : copy files through command lines. It takes 2 arguments. 1 source path 2 the destination

```
[acadgild@localhost ~]$ mkdir satya1
[acadgild@localhost ~]$ cp satya/hello.txt satya1
```

- e) cat : to display the text

```
[acadgild@localhost ~]$ cat satya1/he*
cccccccccccccccccccccccccccccccccccccccccccccccccccccccc
dddddddddddddddddddddddddddddddddddddddddddddddddddddddd
eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee
ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff
gggggggggggggggggggggggggggggggggggggggggggggggggggggggggg
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

- f) mv : move a file from one directory to other

```
[acadgild@localhost ~]$ mkdir satya2
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ mv satya1/hello.txt satya2
[acadgild@localhost ~]$ ls satya1/
[acadgild@localhost ~]$ ls satya2/
hello.txt
[acadgild@localhost ~]$
```

- g) hostname -I : it gives the IP address of the system

```
[acadgild@localhost ~]$ hostname -I
10.0.2.15 192.168.1.104
[acadgild@localhost ~]$
```

- h) rmdir : to remove an empty directory

```
[acadgild@localhost ~]$ rmdir satya1
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ ls satya1
ls: cannot access satya1: No such file or directory
[acadgild@localhost ~]$ rmdir satya2
rmdir: failed to remove `satya2': Directory not empty
[acadgild@localhost ~]$
```

- i) `rm -r` : to remove a directory with files

```
[acadgild@localhost ~]$ rm -r satya2
[acadgild@localhost ~]$ ls satya2/
ls: cannot access satya2/: No such file or directory
[acadgild@localhost ~]$
```

- 4) Create a file from the terminal using nano editor.

```
GNU nano 2.0.9
asaassasasasasasssasasas
aaaaaaaaaaaaaaaaaaaaa
bbbbbbbbbbbbbbbbbbbbb
cccccccccccccccccc
dddddddddddddd
eeeeeeeeee
ffffff
gggg
hh
i
```

By placing CTRL + X , it will ask whether to save it or not
Please select Y to save this.

Now open another command prompt
To view the content of the file

```
[acadgild@localhost satya]$ ls
hello.txt
[acadgild@localhost satya]$ cat te*
asaassasasasasasssasas
aaaaaaaaaaaaaaaaaaaaa
bbbbbbbbbbbbbbbbbbbbb
cccccccccccccccccc
dddddddddddddd
eeeeeeeeee
ffffff
gggg
hh
i
[acadgild@localhost satya]$
```

- 5) Open the HDFS web page localhost:50070

Overview 'localhost:8020' (active)

Started:	Wed Oct 03 20:03:41 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.
87 files and directories, 44 blocks = 131 total filesystem object(s).
Heap Memory used 35.46 MB of 61.47 MB Heap Memory. Max Heap Memory is 966.69 MB.
Non Heap Memory used 48.46 MB of 49.73 MB Committed Non Heap Memory. Max Non Heap Memory is -1 B.

Configured Capacity:	17.11 GB
DFS Used:	1.48 MB
Non DFS Used:	11.73 GB

Non DFS Used:	11.73 GB
DFS Remaining:	5.38 GB
DFS Used%:	0.01%
DFS Remaining%:	31.45%
Block Pool Used:	1.48 MB
Block Pool Used%:	0.01%
DataNodes usages% (Min/Median/Max/stdDev):	0.01% / 0.01% / 0.01% / 0.00%
Live Nodes	1 (Decommissioned: 0)
Dead Nodes	0 (Decommissioned: 0)
Decommissioning Nodes	0
Number of Under-Replicated Blocks	0
Number of Blocks Pending Deletion	0
Block Deletion Start Time	10/3/2018, 8:03:41 PM

NameNode Journal Status

Current transaction ID: 2094

Journal Manager	State
FileJournalManager(root=/home/ac.adgild/install/data/dfs/name)	EditLogOutputStream(/home/ac.adgild/install/data/dfs/name/current/edits_inprogress_0000000000000002093)

localhost:50070/dfshealth.html#tab-datanode

80%

Search

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	1.48 MB	11.73 GB	5.38 GB	44	1.48 MB (0.01%)	0	2.6.5

Decommissioning

Node	Last contact	Under replicated blocks	Blocks with no live replicas	Under Replicated Blocks In files under construction
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Namenode information - Mozilla Firefox

Google

Namenode information

localhost:50070/dfshealth.html#tab-snapshot

80%

Search

Hadoop

Overview

Datanodes

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Snapshot Summary

Snapshottable directories: 0

Path	Snapshot Number	Snapshot Quota	Modification Time	Permission	Owner	Group
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Snapshotted directories: 0

Snapshot ID	Snapshot Directory	Modification Time
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Hadoop, 2016.

Legacy UI

Startup Progress

Elapsed Time: 35 sec, Percent Complete: 100%

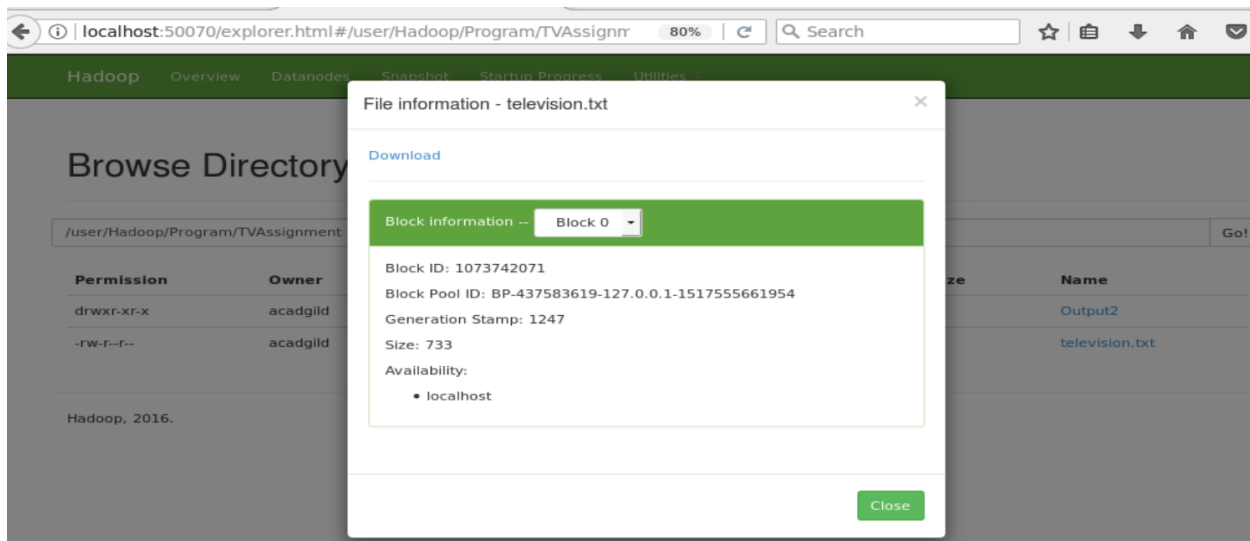
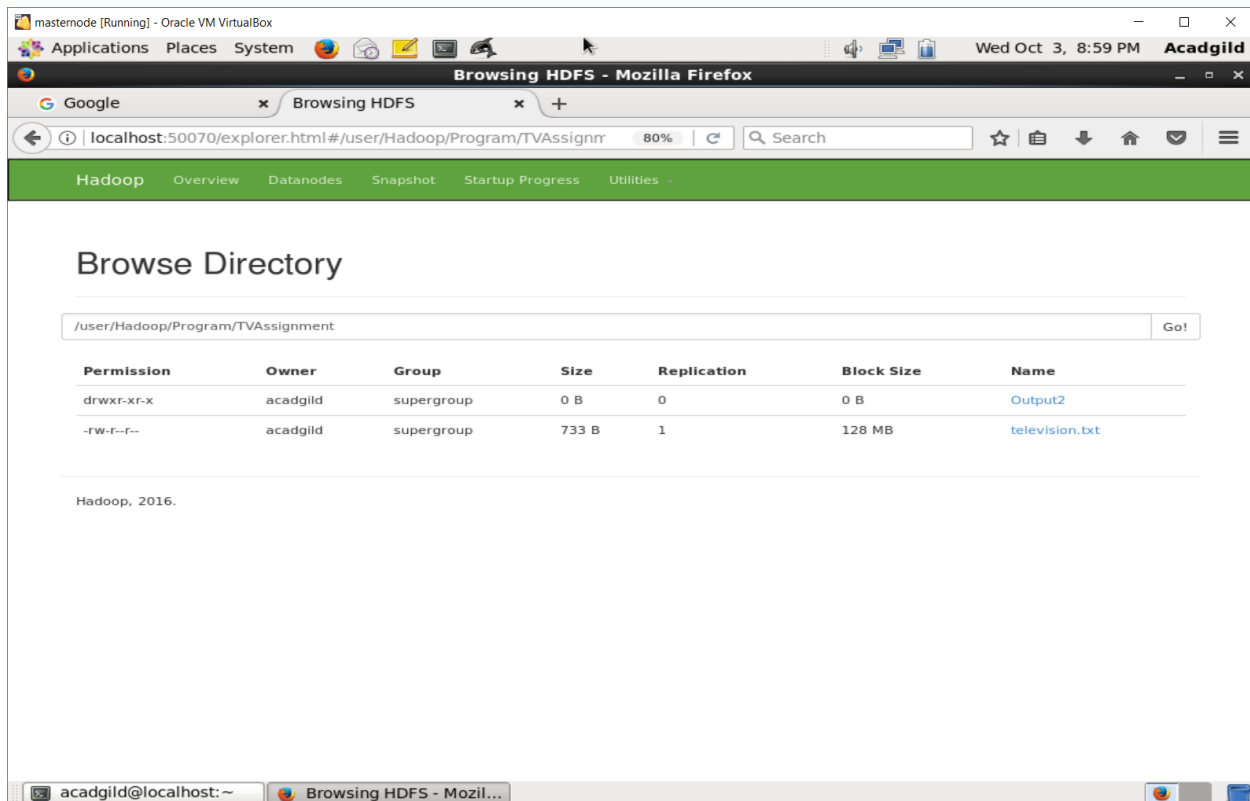
Phase	Completion	Elapsed Time
Loading fsimage /home/acadgild/install/data/dfs/name/current/fsimage_0000000000000002089 7.12 KB	100%	0 sec
inodes (0/0)	100%	
delegation tokens (0/0)	100%	
cache pools (0/0)	100%	
Loading edits	100%	0 sec
/home/acadgild/install/data/dfs/name/current/edits_0000000000000002090-0000000000000002090 1 MB (1/1)	100%	
Saving checkpoint	100%	0 sec
Safe mode	100%	35 sec
awaiting reported blocks (44/44)	100%	

- Browse the file system
- Logs

Browse Directory

/Go!

Permission	Owner	Group	Size	Replication	Block Size	Name
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	satya
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	sqoopout111
drwxrwx---	acadgild	supergroup	0 B	0	0 B	tmp
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	user



Directory: /logs/

SecurityAuth-acadgild.audit	0 bytes	Feb 2, 2018 12:44:52 PM
hadoop-acadgild-datanode-localhost.localdomain.log	688843 bytes	Oct 3, 2018 8:03:48 PM
hadoop-acadgild-datanode-localhost.localdomain.out	719 bytes	Oct 3, 2018 8:03:45 PM
hadoop-acadgild-datanode-localhost.localdomain.out.1	719 bytes	Oct 3, 2018 7:23:56 PM
hadoop-acadgild-datanode-localhost.localdomain.out.2	719 bytes	Oct 1, 2018 9:38:27 AM
hadoop-acadgild-datanode-localhost.localdomain.out.3	719 bytes	Sep 29, 2018 7:04:00 PM
hadoop-acadgild-datanode-localhost.localdomain.out.4	719 bytes	Sep 29, 2018 9:10:50 AM
hadoop-acadgild-datanode-localhost.localdomain.out.5	719 bytes	Sep 27, 2018 11:06:59 AM
hadoop-acadgild-namenode-localhost.localdomain.log	876776 bytes	Oct 3, 2018 9:02:23 PM
hadoop-acadgild-namenode-localhost.localdomain.out	4908 bytes	Oct 3, 2018 8:42:34 PM
hadoop-acadgild-namenode-localhost.localdomain.out.1	719 bytes	Oct 3, 2018 7:23:51 PM
hadoop-acadgild-namenode-localhost.localdomain.out.2	719 bytes	Oct 1, 2018 9:38:22 AM
hadoop-acadgild-namenode-localhost.localdomain.out.3	719 bytes	Sep 29, 2018 7:03:55 PM
hadoop-acadgild-namenode-localhost.localdomain.out.4	719 bytes	Sep 29, 2018 9:10:45 AM
hadoop-acadgild-namenode-localhost.localdomain.out.5	719 bytes	Sep 27, 2018 11:06:54 AM
hadoop-acadgild-secondarynamenode-localhost.localdomain.log	374366 bytes	Oct 3, 2018 8:04:55 PM
hadoop-acadgild-secondarynamenode-localhost.localdomain.out	719 bytes	Oct 3, 2018 8:03:51 PM
hadoop-acadgild-secondarynamenode-localhost.localdomain.out.1	719 bytes	Oct 3, 2018 7:24:03 PM
hadoop-acadgild-secondarynamenode-localhost.localdomain.out.2	719 bytes	Oct 1, 2018 9:38:34 AM
hadoop-acadgild-secondarynamenode-localhost.localdomain.out.3	719 bytes	Sep 29, 2018 7:04:07 PM