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• MobaXterm 10.4 •
(SSH client, X-server and networking tools)

→ SSH session to acadgild@192.168.56.2
• SSH compression : v
• SSH-browser      : v
• X11-forwarding   : v (remote display is forwarded through SSH)
• DISPLAY          : v (automatically set on remote server)

→ For more info, ctrl+click on help or visit our website

```

```

Last login: Tue Jul  3 10:50:44 2018 from 192.168.56.1
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$ ls
Desktop      eclipse          file327.txt      hadoop-jars      MyWordCount.jar  Pictures
Templates    Videos
Documents    eclipse-workspace file.txt          install          org               Public
test.txt
Downloads    employee.java    hadoop_help.txt  Music            Person.java
Sqoop_Commands_AG.txt ttt.txt
[acadgild.mmisra ~]$ clear
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$ pwd
/home/acadgild
You have new mail in /var/spool/mail/acadgild
[acadgild.mmisra ~]$ where
-bash: where: command not found
[acadgild.mmisra ~]$ whereis
whereis [ -sbmu ] [ -SBM dir ... -f ] name...
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$ clear
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
# staring all Hadoop applications

[acadgild.mmisra ~]$
[acadgild.mmisra ~]$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
18/07/03 11:01:09 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.loc
aldomain.out
localhost: starting datanode, logging to

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/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
18/07/03 11:01:26 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.mmisra ~]$
[acadgild.mmisra ~]$

```

check the java daemons using jps

```

[acadgild.mmisra ~]$
[acadgild.mmisra ~]$ jps

```

3888 SecondaryNameNode

4464 Jps

4037 ResourceManager

3594 NameNode

3722 DataNode

4140 NodeManager

```

[acadgild.mmisra ~]$
[acadgild.mmisra ~]$

```

starting all Hadoop applications

```

[acadgild.mmisra ~]$ cd
[acadgild.mmisra ~]$ vim myfile.txt
You have new mail in /var/spool/mail/acadgild
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$

```

some basic unix commands

```

[acadgild.mmisra ~]$ ls
Desktop    eclipse          file327.txt      hadoop-jars     myfile.txt
Person.java  Sqoop_Commands_AG.txt  ttt.txt
Documents  eclipse-workspace  file.txt        install         MyWordCount.jar  Pictures
Templates                   Videos
Downloads  employee.java      hadoop_help.txt  Music           org               Public
test.txt
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$ ls -la myfile.txt
-rw-rw-r--. 1 acadgild acadgild 88 Jul  3 11:02 myfile.txt
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$ cat myfile.txt
#this is my first sample file for assignment

```

big data and hadoop course starting

```

[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$

```

```

[acadgild.mmisra ~]$
# basic hdfs commands like ls, cat etc
[acadgild.mmisra ~]$ hadoop fs -ls /
18/07/03 11:03:17 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your
platform... using builtin-java classes where applicable
Found 7 items
drwxr-xr-x   - acadgild supergroup          0 2018-06-24 10:51 /files
drwxr-xr-x   - acadgild supergroup          0 2018-06-24 10:50 /mohit
drwxr-xr-x   - acadgild supergroup          0 2018-07-01 09:03 /out1
drwxr-xr-x   - acadgild supergroup          0 2018-07-01 10:01 /sqoopout
drwxr-xr-x   - acadgild supergroup          0 2018-07-01 11:21 /sqoopoutbyid
drwx----- - acadgild supergroup          0 2018-06-24 11:27 /tmp
drwxr-xr-x   - acadgild supergroup          0 2018-07-01 11:21 /user
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$ hadoop fs -ls /files
18/07/03 11:03:27 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your
platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r--    1 acadgild supergroup  327155712 2018-06-24 10:51 /files/file327.txt
-rw-r--r--    1 acadgild supergroup    336 2018-06-24 10:51 /files/test.txt
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$ hadoop fs -cat /files/test.txt
18/07/03 11:03:45 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your
platform... using builtin-java classes where applicable
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
have a nice day
You have new mail in /var/spool/mail/acadgild
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$
[acadgild.mmisra ~]$ jps
3888 SecondaryNameNode
4656 Jps
4037 ResourceManager
3594 NameNode
3722 DataNode
4140 NodeManager
[acadgild.mmisra ~]$

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```
[acadgild.mmisra ~]$  
[acadgild.mmisra ~]$  
[acadgild.mmisra ~]$
```

web GUI for Hadoop at port 50070

Overview 'localhost:8020' (active)

Started:	Tue Jul 03 11:01:11 IST 2018
Version:	2.6.5, re8c9fe0b4c252caf2ebf1464220599650f119997
Compiled:	2016-10-02T23:43Z by sjlee from branch-2.6.5
Cluster ID:	CID-07774be0-4219-44c3-89f9-3f6b393d27aa
Block Pool ID:	BP-117725464-127.0.0.1-1529817553056

Summary

Security is off.

Safe mode is ON. The reported blocks 38 needs additional 4 blocks to reach the threshold 0.9990 of total blocks 42. The number of live datanodes 1 has reached the minimum number 0. Safe mode will be turned off automatically once the thresholds have been reached.

83 files and directories, 42 blocks = 125 total filesystem object(s).

Heap Memory used 123.81 MB of 206.5 MB Heap Memory. Max Heap Memory is 889 MB.

Non Heap Memory used 39.01 MB of 40.66 MB Committed Non Heap Memory. Max Non Heap Memory is -1 B.

Configured Capacity:	17.11 GB
DFS Used:	316.26 MB
Non DFS Used:	13.66 GB
DFS Remaining:	3.14 GB
DFS Used%:	1.81%
DFS Remaining%:	18.34%

Student Dashboard

BASH Shell: Change The

Namenode information

192.168.56.2:50070/dfshealth.html#tab-datanode

AppsImportedBSNL Payment PortBESCOMgibson-confluenceconcurweekly statusCumulus status repacadgildsyed-rizvi-blogAcadgild Retail Batbig data interview q

HadoopOverviewDatanodesSnapshotStartup ProgressUtilities

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)	0	In Service	17.11 GB	316.26 MB	13.66 GB	3.14 GB	41	316.26 MB (1.81%)	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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Hadoop, 2016.

Legacy UI

Student Dashboard

BASH Shell: Change The

Browsing HDFS

192.168.56.2:50070/explorer.html#

AppsImportedBSNL Payment PortBESCOMgibson-confluenceconcurweekly statusCumulus status repacadgildsyed-rizvi-blogAcadgild Retail Batbig data interview q

HadoopOverviewDatanodesSnapshotStartup ProgressUtilities

Browse Directory

/

Go!

Permission	Owner	Group	Size	Replication	Block Size	Name
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	files
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	mohit
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	out1
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	sqoopout
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	sqoopoutbyid
drwx-----	acadgild	supergroup	0 B	0	0 B	tmp
drwxr-xr-x	acadgild	supergroup	0 B	0	0 B	user

Hadoop, 2016.