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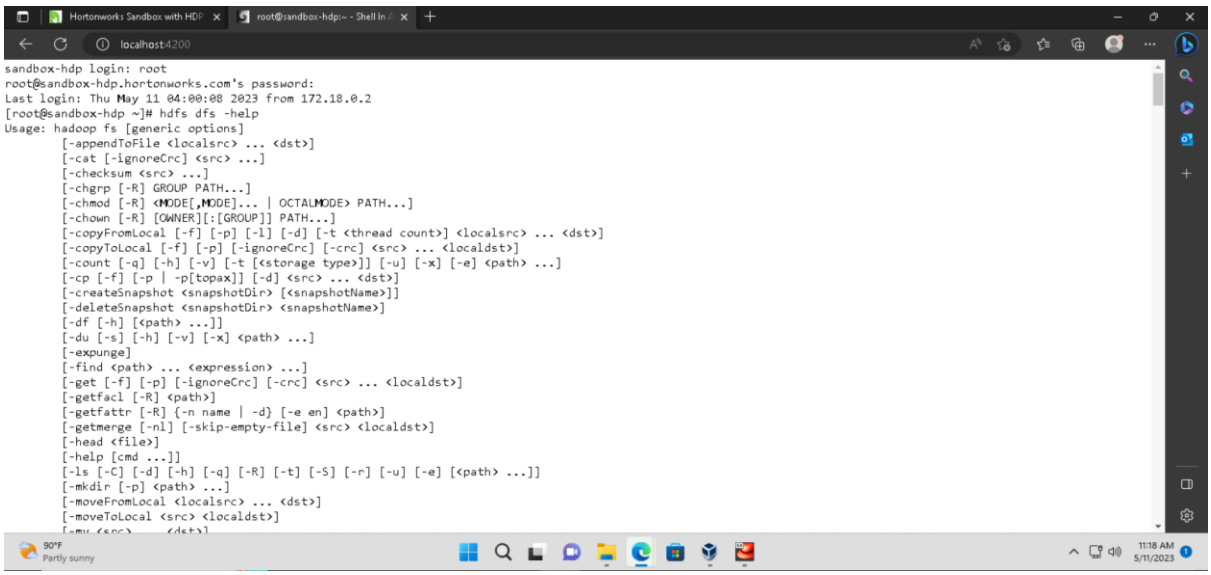
No Absen : 06

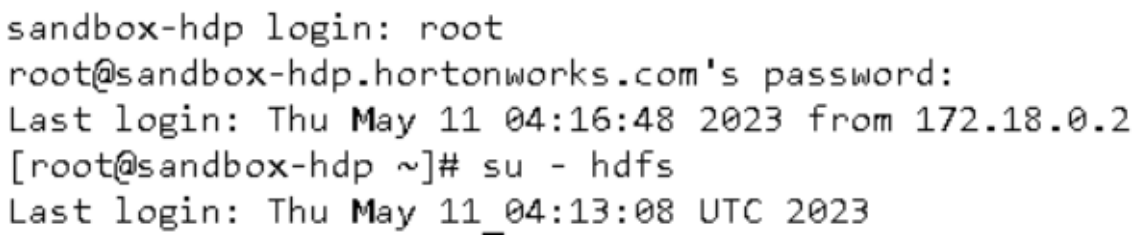
Teknologi Big Data (TBD)

Modul 3 : DISTRUBUTED FILE SYSTEM DENGAN HDFS

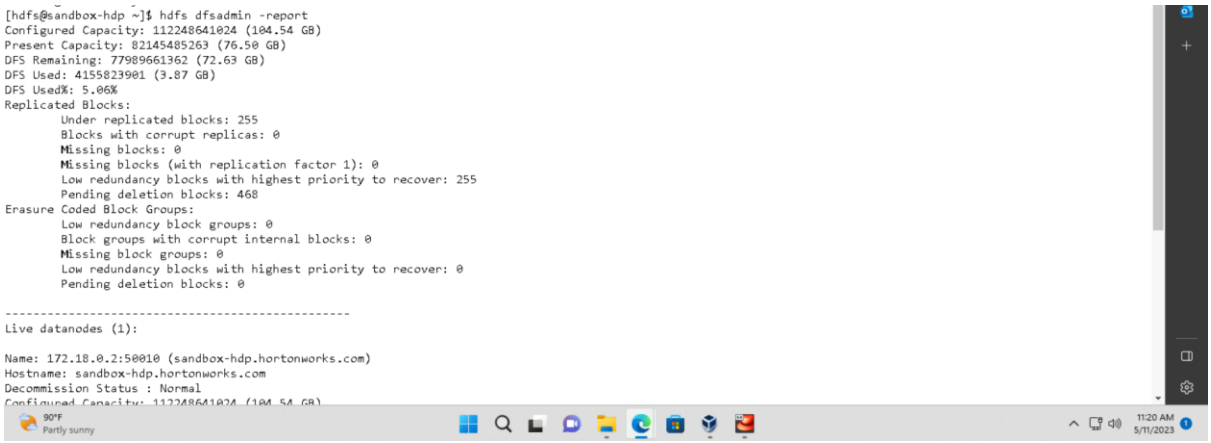
1. **-help**



2. **Mengubah Role menjadi superuser**



3. **-report**



```
Name: 172.18.0.2:50010 (sandbox-hdp.hortonworks.com)
Hostname: sandbox-hdp.hortonworks.com
Decommission Status : Normal
Configured Capacity: 112248641024 (104.54 GB)
DFS Used: 4155823901 (3.87 GB)
Non DFS Used: 23151726307 (21.56 GB)
DFS Remaining: 77989661362 (72.63 GB)
DFS Used%: 3.70%
DFS Remaining%: 69.48%
Configured Cache Capacity: 0 (0 B)
Cache Used: 0 (0 B)
Cache Remaining: 0 (0 B)
Cache Used%: 100.00%
Cache Remaining%: 0.00%
Xceivers: 17
Last contact: Thu May 11 04:19:21 UTC 2023
Last Block Report: Thu May 11 03:58:05 UTC 2023
Num of Blocks: 1838
```

4. **-safemode**

```
[hdfs@sandbox-hdp ~]$ hdfs dfsadmin -safemode
Usage: hdfs dfsadmin [-safemode enter | leave | get | wait | forceExit]
[hdfs@sandbox-hdp ~]$ hdfs dfsadmin -safemode enter
Safe mode is ON
[hdfs@sandbox-hdp ~]$ hdfs dfsadmin -safemode leave
Safe mode is OFF
[hdfs@sandbox-hdp ~]$
```

5. **-finalizeUpgrade**

```
[hdfs@sandbox-hdp ~]$ hdfs dfsadmin -finalizeUpgrade
Finalize upgrade successful
[hdfs@sandbox-hdp ~]$
```

6. **-refreshNodes**

```
[hdfs@sandbox-hdp ~]$ hdfs dfsadmin -refreshNodes
Refresh nodes successful
[hdfs@sandbox-hdp ~]$
```

7. **-printTopology**

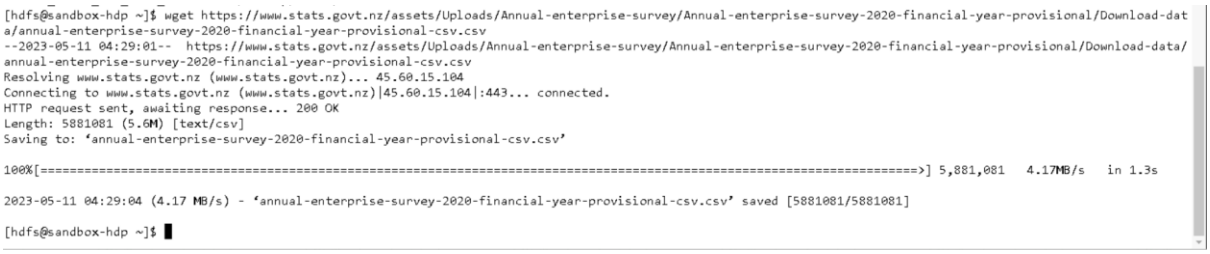
```
[hdfs@sandbox-hdp ~]$ hdfs dfsadmin -printTopology
Rack: /default-rack
   172.18.0.2:50010 (sandbox-hdp.hortonworks.com)

[hdfs@sandbox-hdp ~]$
```

8. **Envvar**

```
[hdfs@sandbox-hdp ~]$ hdfs envvars
JAVA_HOME='/usr/lib/jvm/java'
HADOOP_HDFS_HOME='/usr/hdp/3.0.1.0-187/hadoop-hdfs'
HDFS_DIR='./'
HDFS_LIB_JARS_DIR='lib'
HADOOP_CONF_DIR='/usr/hdp/3.0.1.0-187/hadoop/conf'
HADOOP_TOOLS_HOME='/usr/hdp/3.0.1.0-187/hadoop'
HADOOP_TOOLS_DIR='share/hadoop/tools'
HADOOP_TOOLS_LIB_JARS_DIR='share/hadoop/tools/lib'
[hdfs@sandbox-hdp ~]$
```

9. **Usecase**
   a. **Mengambil file dari internet**



   b. **Pengecekan file**

Cek file di local mesin dan

```
[hdfs@sandbox-hdp ~]$ ls
annual-enterprise-survey-2020-financial-year-provisional-csv.csv
[hdfs@sandbox-hdp ~]$ hadoop fs -ls
Found 1 items
drwx------   - hdfs hdfs          0 2018-11-29 19:21 .Trash
[hdfs@sandbox-hdp ~]$ hadoop fs -mkdir practice
[hdfs@sandbox-hdp ~]$
```

Membuat folder Practice

```
[hdfs@sandbox-hdp ~]$ ls
annual-enterprise-survey-2020-financial-year-provisional-csv.csv
[hdfs@sandbox-hdp ~]$ hadoop fs -ls
Found 1 items
drwx------   - hdfs hdfs          0 2018-11-29 19:21 .Trash
[hdfs@sandbox-hdp ~]$ hadoop fs -mkdir practice
[hdfs@sandbox-hdp ~]$
```

Rename file

```
[hdfs@sandbox-hdp ~]$ mv annual-enterprise-survey-2020-financial-year-provisional-csv.csv sample.csv
[hdfs@sandbox-hdp ~]$ ls
sample.csv
[hdfs@sandbox-hdp ~]$
```

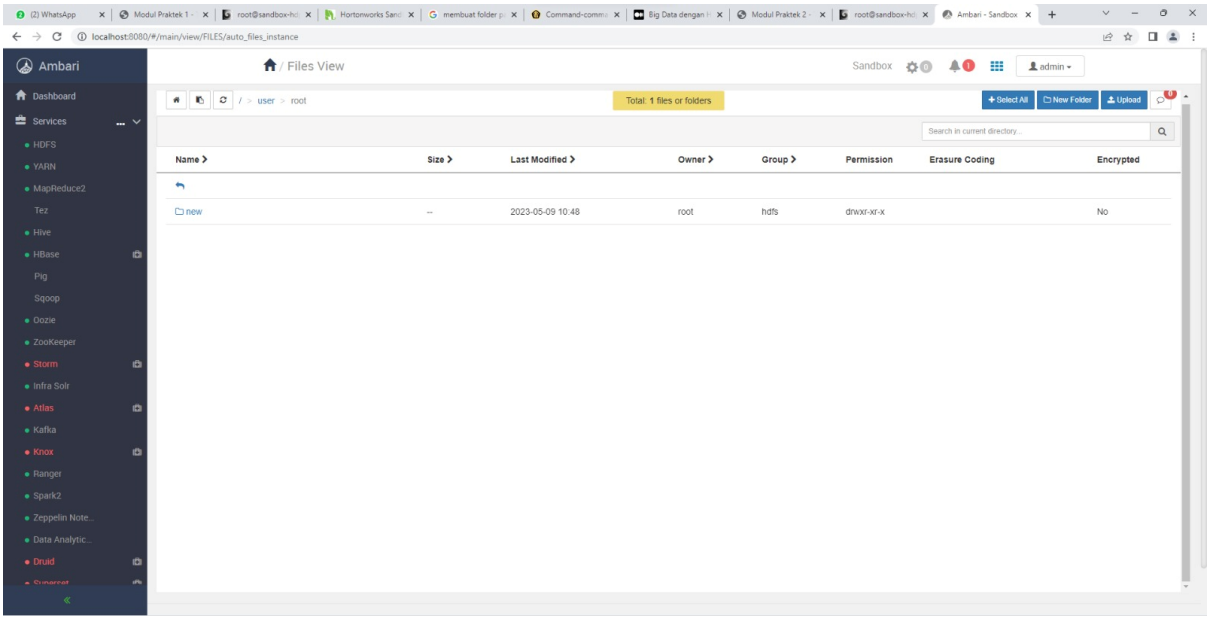
Menyimpan file ke dalam

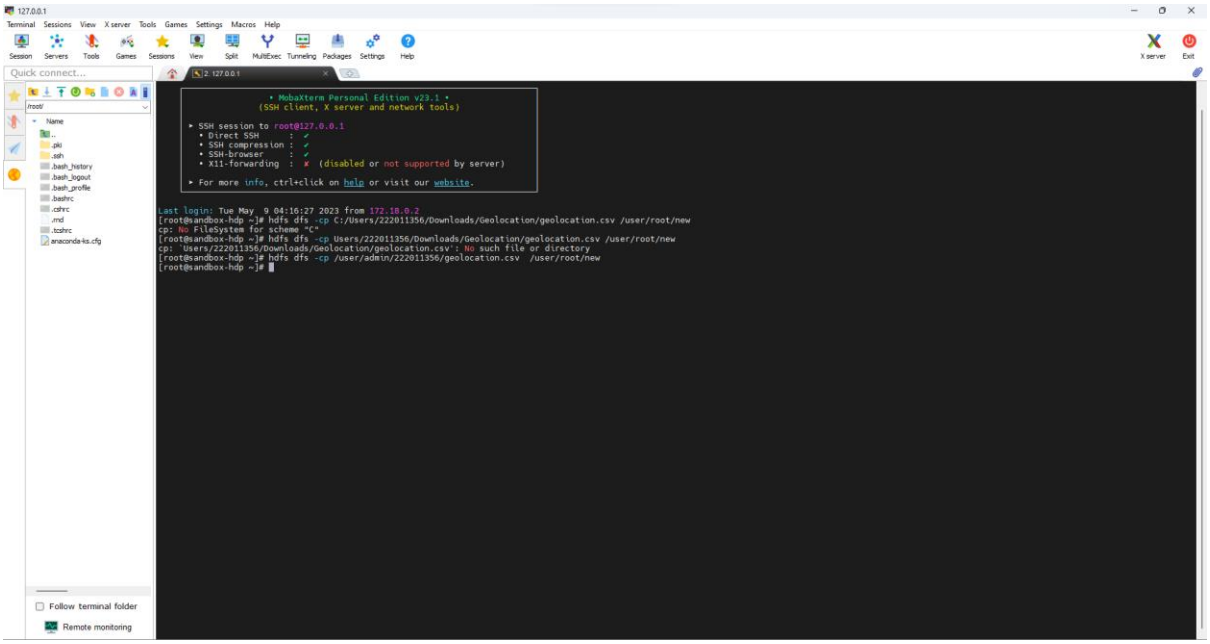
```
[hdfs@sandbox-hdp ~]$ hadoop fs -ls
Found 2 items
drwx------   - hdfs hdfs          0 2018-11-29 19:21 .Trash
drwxr-xr-x   - hdfs hdfs          0 2023-05-11 04:30 practice
[hdfs@sandbox-hdp ~]$ hadoop fs -ls practice
[hdfs@sandbox-hdp ~]$
```

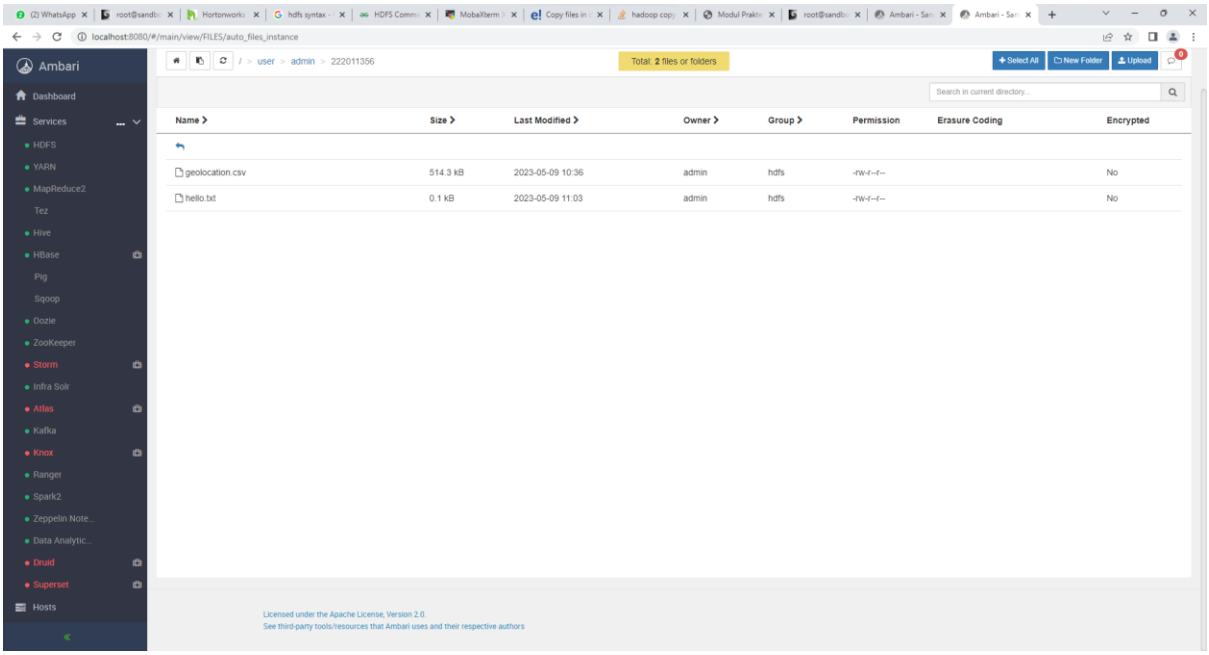
```
[hdfs@sandbox-hdp ~]$ hadoop fs -ls practice
[hdfs@sandbox-hdp ~]$ hadoop fs -rm practice/sample.csv
rm: `practice/sample.csv': No such file or directory
[hdfs@sandbox-hdp ~]$ hadoop fs -rm /practice/sample.csv
rm: `/practice/sample.csv': No such file or directory
[hdfs@sandbox-hdp ~]$ hadoop fs -rm practice
rm: `practice': Is a directory
[hdfs@sandbox-hdp ~]$ hadoop fs -rm practice/sample.csv
rm: `practice/sample.csv': No such file or directory
[hdfs@sandbox-hdp ~]$
```

10. Penugasan

```
sandbox-hdp login: root
root@sandbox-hdp.hortonworks.com's password:
Last login: Tue May  9 03:28:31 2023
[root@sandbox-hdp ~]# hdfs dfs -ls user/admin/222011356
ls: `user/admin/222011356': No such file or directory
[root@sandbox-hdp ~]# hdfs dfs -ls admin/222011356
ls: `admin/222011356': No such file or directory
[root@sandbox-hdp ~]# hdfs dfs -ls
[root@sandbox-hdp ~]# hdfs dfs -ls /
Found 13 items
drwxrwxrwt   - yarn   hadoop          0 2018-11-29 17:56 /app-logs
drwxr-xr-x   - hdfs   hdfs            0 2018-11-29 19:01 /apps
drwxr-xr-x   - yarn   hadoop          0 2018-11-29 17:25 /ats
drwxr-xr-x   - hdfs   hdfs            0 2018-11-29 17:26 /atsv2
drwxr-xr-x   - hdfs   hdfs            0 2018-11-29 17:26 /hdp
drwx------   - livy   hdfs            0 2018-11-29 17:55 /livy2-recovery
drwxr-xr-x   - mapred hdfs            0 2018-11-29 17:26 /mapred
drwxrwxrwx   - mapred hadoop          0 2018-11-29 17:26 /mr-history
drwxr-xr-x   - hdfs   hdfs            0 2018-11-29 18:54 /ranger
drwxrwxrwx   - spark  hadoop          0 2023-05-09 03:40 /spark2-history
drwxrwxrwx   - hdfs   hdfs            0 2018-11-29 19:01 /tmp
drwxr-xr-x   - hdfs   hdfs            0 2018-11-29 19:21 /user
drwxr-xr-x   - hdfs   hdfs            0 2018-11-29 17:51 /warehouse
[root@sandbox-hdp ~]# hdfs dfs -ls /user/admin/222011356
Found 1 items
-rw-r--r--   1 admin hdfs     526677 2023-05-09 03:36 /user/admin/222011356/geolocation.csv
[root@sandbox-hdp ~]# hdfs dfs rm /user/admin/new
rm: Unknown command
Did you mean -rm?  This command begins with a dash.
Usage: hadoop fs [generic options]
        [-appendToFile <localsrc> ... <dst>]
        [-cat [-ignoreCrc] <src> ...]
        [-checksum <src> ...]
        [-chgrp [-R] GROUP PATH...]
        [-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...]
        [-chown [-R] [OWNER][:[GROUP]] PATH...]
        [-copyFromLocal [-f] [-p] [-l] [-d] [-t <thread count>] <localsrc> ... <dst>]
        [-copyToLocal [-f] [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
        [-count [-q] [-h] [-v] [-t [<storage type>]] [-u] [-x] [-e] <path> ...]
        [-cp [-f] [-p | -p[topax]] [-d] <src> ... <dst>]
        [-createSnapshot <snapshotDir> [<snapshotName>]]
        [-deleteSnapshot <snapshotDir> <snapshotName>]
        [-df [-h] [<path> ...]]
        [-du [-s] [-h] [-v] [-x] <path> ...]
        [-expunge]
        [-find <path> ... <expression> ...]
        [-get [-f] [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
```




127.0.0.1
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. 127.0.0.1
• MobaXterm Personal Edition v23.1 •
(SSH client, X server and network tools)
• SSH session to root@127.0.0.1
• Direct SSH : ✓
• SSH compression : ✓
• SSH-browser : ✓
• X11-forwarding : ✗ (disabled or not supported by server)
• For more info, ctrl+click on help or visit our website.
Last login: Tue May 9 04:16:27 2023 from 172.18.0.2
[root@sandbox-hdp ~]# hdfs dfs -cp C:/Users/222011356/Downloads/Geolocation/geolocation.csv /user/root/new
cp: No FileSystem for scheme "C"
[root@sandbox-hdp ~]# hdfs dfs -cp Users/222011356/Downloads/Geolocation/geolocation.csv /user/root/new
cp: `Users/222011356/Downloads/Geolocation/geolocation.csv': No such file or directory
[root@sandbox-hdp ~]# hdfs dfs -cp /user/admin/222011356/geolocation.csv /user/root/new
[root@sandbox-hdp ~]#
Follow terminal folder
Remote monitoring


localhost:8080/#/main/view/FILES/auto_files_instance
Ambari
Dashboard
Services
HDFS
YARN
MapReduce2
Tez
Hive
HBase
Pig
Sqoop
Oozie
ZooKeeper
Storm
Infra Solr
Atlas
Kafka
Knox
Ranger
Spark2
Zeppelin Note...
Data Analytic...
Druid
Superset
Hosts
/ > user > admin > 222011356
Total: 2 files or folders
+ Select All
New Folder
Upload
Search in current directory...
Name
Size
Last Modified
Owner
Group
Permission
Erasure Coding
Encrypted
geolocation.csv 514.3 kB 2023-05-09 10:36 admin hdfs -rw-r--r-- No
hello.txt 0.1 kB 2023-05-09 11:03 admin hdfs -rw-r--r-- No
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