Praktikum Teknologi Perekayasaan Data

Tanggal Praktikum: Monday, March 13, 2023

1. Command Praktikum

• su - hdfs

```
root@sandbox-hdp ~|# su - hdfs
Last login: Mon Mar 13 06:58:26 UTC 2023
```

hdfs dfsadmin -report

```
[hdfs@sandbox-hdp ~]$ hdfs dfsadmin -report
Configured Capacity: 112248641024 (104.54 GB)
Present Capacity: 82478639697 (76.81 GB)
DFS Remaining: 78600169472 (73.20 GB)
DFS Used: 3878470225 (3.61 GB)
DFS Used%: 4.70%
Replicated Blocks:
        Under replicated blocks: 204
        Blocks with corrupt replicas: 0
        Missing blocks: 0
        Missing blocks (with replication factor 1): 0
        Low redundancy blocks with highest priority to recover: 204
        Pending deletion blocks: 0
Erasure Coded Block Groups:
        Low redundancy block groups: 0
        Block groups with corrupt internal blocks: 0
        Missing block groups: 0
        Low redundancy blocks with highest priority to recover: 0
        Pending deletion blocks: 0
Live datanodes (1):
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: 3878470225 (3.61 GB)
Non DFS Used: 23623320495 (22.00 GB)
DFS Remaining: 78600169472 (73.20 GB)
DFS Used%: 3.46%
DFS Remaining%: 70.02%
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: 4
Last contact: Mon Mar 13 08:19:38 UTC 2023
Last Block Report: Mon Mar 13 06:40:34 UTC 2023
Num of Blocks: 1834
[hdfs@sandbox-hdp ~]$
```

-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 ~]$ ■
```

• -finalizeUpgrade

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

-refreshNodes

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

-printTopology

envvars

```
[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'

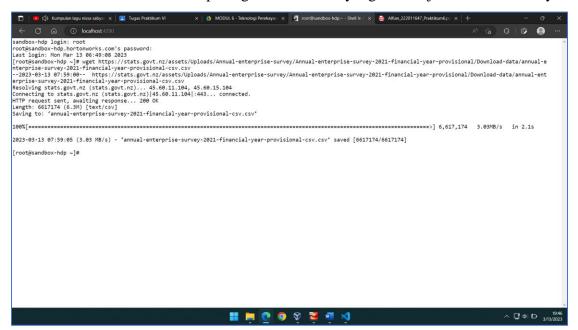
HADOOP TOOLS HOME='/usr/hdp/3.0.1.0-187/hadoop'

HADOOP_TOOLS_DIR='share/hadoop/tools'

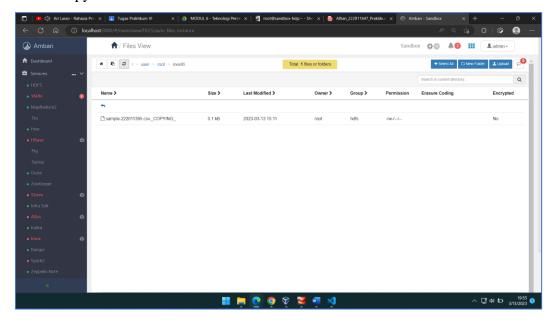
HADOOP TOOLS LIB JARS DIR='share/hadoop/tools/lib'

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

2. Melakukan load data ke hadoop dengan mekanisme yang telah dijelaskan sebelumnya.

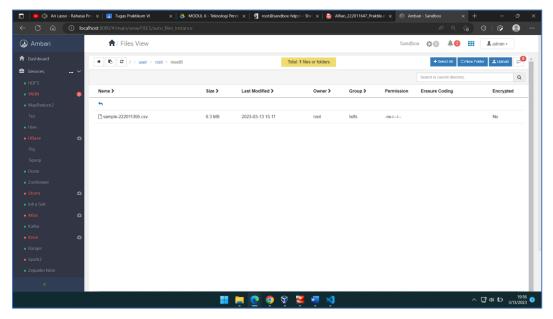


- 3. Melakukan pengecekan file di HDFS
 - Proses copy file



```
| Total Control Contro
```

Hasil Copy



```
| Continue | Continue
```

• Remove File

