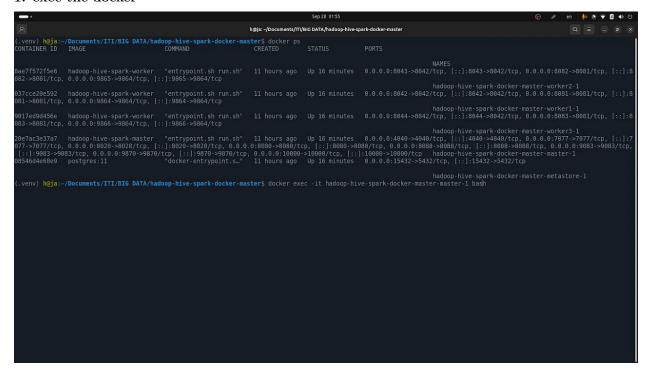
Hussein Mohamed

$\begin{array}{c} {\rm Day 02} \\ {\rm Task 01~HDFS} \end{array}$

1: exec the docker



2: chmod

```
in the proof of th
```

3: hdfs dfs -ls / and cat

```
| Mark |
```

4: get and put

```
jupyter@master:/$ ls
bin dev home lib64 mnt proc run srv tmp
boot etc lib media opt root sbin sys usr
jupyter@master:/$ touch filetoput.txt
jupyter@master:/$ echo hi hi hadoop > filetoput.txt
jupyter@master:/$ hdfs dfs -put /filetoput.txt /
jupyter@master:/$ hdfs dfs -cat /filetoput.txt
jupyter@master:/$ hdfs dfs -ls /
 ound 8 items
 -rw-r--r-- 3 jupyter supergroup
                3 jupyter supergroup
                                                        6 2025-09-27 22:58 /file3.txt
                3 jupyter supergroup
                                                       10 2025-09-27 12:23 /myfile.txt
10 2025-09-27 12:26 /myfile2.txt
                              supergroup
                - jupyter supergroup
                                                        0 2025-09-27 12:12 /spark
drwxr-xr-x
                - jupyter supergroup
drwxr-xr-x
drwxr-xr-x - jupyter supergroup 0
jupyter@master:/$ hdfs dfs -get /file2.txt /
jupyter@master:/$ cat file2.txt
jupyter@master:/$ |
```

5: stop a data node and try cat

```
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```

6: a result with error and long time looding

```
Agise Notes and the process of the second se
```

7: stop worker2, another error but still gives result

```
@ja:~/Documents/ITI/BIG DATA/hadoop-hive-spark-docker-master$ docker stop hadoop-hive-spark-docker
master-worker2-1
 @ja:~/Documents/ITI/BIG DATA/hadoop-hive-spark-docker-master$ docker exec -it hadoop-hive-spark-doc
ker-master-master-1 bash
jupyter@master:/$ hdfs dfs -cat /
.dockerenv dev/
            home/
jupyter@master:/$ hdfs dfs -cat /file2.txt
java.net.NoRouteToHostException: No route to host
        at sun.nio.ch.SocketChannelImpl.finishConnect(SocketChannelImpl.java:716)
        at org.apache.hadoop.net.SocketIOWithTimeout.connect(SocketIOWithTimeout.java:205)
        at org.apache.hadoop.hdfs.DFSClient.newConnectedPeer(DFSClient.java:3033)
        at org.apache.hadoop.hdfs.client.impl.BlockReaderFactory.nextTcpPeer(BlockReaderFactory.java
:829)
        at org.apache.hadoop.hdfs.client.impl.BlockReaderFactory.getRemoteBlockReaderFrom Tcp (BlockReaderFactory). \\
aderFactory.java:754)
        at org.apache.hadoop.hdfs.client.impl.BlockReaderFactory.build(BlockReaderFactory.java:381)
        at org.apache.hadoop.hdfs.DFSInputStream.getBlockReader(DFSInputStream.java:715)
        at org.apache.hadoop.hdfs.DFSInputStream.blockSeekTo(DFSInputStream.java:645)
        at org.apache.hadoop.hdfs.DFSInputStream.readWithStrategy(DFSInputStream.java:845)
```

8: the result

```
at org.apache.hadoop.hdfs.client.impl.BlockReaderFactory.build(BlockReaderFactory.java:381)
        at org.apache.hadoop.hdfs.DFSInputStream.getBlockReader(DFSInputStream.java:715)
        at org.apache.hadoop.hdfs.DFSInputStream.blockSeekTo(DFSInputStream.java:645)
        at org.apache.hadoop.hdfs.DFSInputStream.readWithStrategy(DFSInputStream.java:845)
        at org.apache.hadoop.hdfs.DFSInputStream.read(DFSInputStream.java:918)
        at java.io.DataInputStream.read(DataInputStream.java:100)
        at org.apache.hadoop.io.IOUtils.copyBytes(IOUtils.java:96)
        at org.apache.hadoop.io.IOUtils.copyBytes(IOUtils.java:69) at org.apache.hadoop.io.IOUtils.copyBytes(IOUtils.java:133)
        at org.apache.hadoop.fs.shell.Display$Cat.printToStdout(Display.java:101)
        at org.apache.hadoop.fs.shell.Display$Cat.processPath(Display.java:96)
        at org.apache.hadoop.fs.shell.Command.processPathInternal(Command.java:382) at org.apache.hadoop.fs.shell.Command.processPaths(Command.java:345)
        at org.apache.hadoop.fs.shell.Command.processPathArgument(Command.java:318)
        at org.apache.hadoop.fs.shell.Command.processArgument(Command.java:300)
        at org.apache.hadoop.fs.shell.Command.processArguments(Command.java:284) at org.apache.hadoop.fs.shell.FsCommand.processRawArguments(FsCommand.java:121)
        at org.apache.hadoop.fs.shell.Command.run(Command.java:191)
        at org.apache.hadoop.fs.FsShell.run(FsShell.java:327)
        at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:97)
         at org.apache.hadoop.fs.FsShell.main(FsShell.java:390)
2025-09-28 11:18:17,397 INFO hdfs.DFSClient: Successfully connected to /172.28.1.5:9866 for BP-15535
36198-172.28.1.2-1758975076798:blk 1073742077 1253
ni hdfs
jupyter@master:/$|
```

9: stop all workers, no result

```
a:~/Documents/ITI/BIG DATA/hadoop-hive-spark-docker-master$ docker stop hadoop-hive-spark-docker-
 ter-worker3-1
  oop-hive-spark-docker-master-worker3-1
   a:~/Documents/ITI/BIG DATA/hadoop-hive-spark-docker-master$ docker exec -it hadoop-hive-spark-doc
? -master-master-1 bash
  /ter@master:/$ hdfs dfs -cat /file2.txt
★ 5-09-28 11:20:44,415 WARN impl.BlockReaderFactory: I/O error constructing remote block reader.
  i.net.NoRouteToHostException: No route to host
   at sun.nio.ch.SocketChannelImpl.checkConnect(Native Method)
        at sun.nio.ch.SocketChannelImpl.finishConnect(SocketChannelImpl.java:716)
        at org.apache.hadoop.net.SocketIOWithTimeout.connect(SocketIOWithTimeout.java:205)
       at org.apache.hadoop.net.NetUtils.connect(NetUtils.java:600) at org.apache.hadoop.hdfs.DFSClient.newConnectedPeer(DFSClient.java:3033)
        at org.apache.hadoop.hdfs.client.impl.BlockReaderFactory.nextTcpPeer(BlockReaderFactory.java
        at org.apache.hadoop.hdfs.client.impl.BlockReaderFactory.build(BlockReaderFactory.java:381)
        at org.apache.hadoop.hdfs.DFSInputStream.getBlockReader(DFSInputStream.java:715)
        at org.apache.hadoop.hdfs.DFSInputStream.readWithStrategy(DFSInputStream.java:845)
        at org.apache.hadoop.hdfs.DFSInputStream.read(DFSInputStream.java:918)
        at java.io.DataInputStream.read(DataInputStream.java:100)
        at org.apache.hadoop.io.IOUtils.copyBytes(IOUtils.java:96)
       at org.apache.hadoop.io.IOUtils.copyBytes(IOUtils.java:69) at org.apache.hadoop.io.IOUtils.copyBytes(IOUtils.java:133)
```

10: the output

```
at org.apache.hadoop.hdfs.DFSInputStream.read(DFSInputStream.java:918)
          at org.apache.hadoop.io.IOUtils.copyBytes(IOUtils.java:96)
          at org.apache.hadoop.io.IOUtils.copyBytes(IOUtils.java:69)
          at org.apache.hadoop.io.IOUtils.copyBytes(IOUtils.java:133)
at org.apache.hadoop.fs.shell.Display$Cat.printToStdout(Display.java:101)
          at org.apache.hadoop.fs.shell.Display$Cat.processPath(Display.java:96)
          at org.apache.hadoop.fs.shell.Command.processPathInternal(Command.java:382)
          at org.apache.hadoop.fs.shell.Command.processPaths(Command.java:345) at org.apache.hadoop.fs.shell.Command.processPathArgument(Command.java:318)
          at org.apache.hadoop.fs.shell.Command.processArgument(Command.java:300)
          at org.apache.hadoop.fs.shell.Command.processArguments(Command.java:284)
          at org.apache.hadoop.fs.shell.FsCommand.processRawArguments(FsCommand.java:121) at org.apache.hadoop.fs.shell.Command.run(Command.java:191) at org.apache.hadoop.fs.FsShell.run(FsShell.java:327)
          at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:82)
          at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:97)
at org.apache.hadoop.fs.FsShell.main(FsShell.java:390)
cat: Could not obtain block: BP-1553536198-172.28.1.2-1758975076798:blk_1073742077_1253 file=/file2.
txt No live nodes contain current block Block locations: DatanodeInfoWithStorage[172.28.1.5:9866,DS-
.0043516a-f3cc-43e9-97bc-41159dd52ed2,DISK]    DatanodeInfoWithStorage[172.28.1.4:9866,DS-604723ab-f6d8
462b-83a7-2cfd83663caf,DISK] DatanodeInfoWithStorage[172.28.1.3:9866,DS-708e7b5a-1e02-4423-a510-673a
2961d0ea,DISK] Dead nodes: DatanodeInfoWithStorage[172.28.1.5:9866,DS-0043516a-f3cc-43e9-97bc-41159
dd52ed2,DISK] DatanodeInfoWithStorage[172.28.1.3:9866,DS-708e7b5a-1e02-4423-a510-673a2961d0ea,DISK]
DatanodeInfoWithStorage[172.28.1.4:9866,DS-604723ab-f6d8-462b-83a7-2cfd83663caf,DISK]
jupyter@master:/$
```

10: stop the master

```
| NAMES | NAME
```

11: try any command, no respnose

