BDA
Practical 4
HDFS Commands

21BCE020

```
Last login: Thu Oct 10 11:01:58 on ttys000
                                              ✓  at 11:04:18 ⊘
  start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as azimtheba in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [AZT.local]
2024-10-10 11:04:57,446 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
Starting resourcemanager
Starting nodemanagers
                            ✓  took 31s ⧖  at 11:05:05 ⊘
  hdfs fsck /
2024-10-10 11:06:56,365 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
Connecting to namenode via http://localhost:9870/fsck?ugi=azimtheba&path=%2F
FSCK started by azimtheba (auth:SIMPLE) from /127.0.0.1 for path / at Thu Oct 10 11:06:57 IST 2024


Status: HEALTHY
 Number of data-nodes:  1
 Number of racks:              1
 Total dirs:                   3
 Total symlinks:               0

Replicated Blocks:
 Total size:    0 B
 Total files:   0
 Total blocks (validated):     0
 Minimally replicated blocks:  0
 Over-replicated blocks:       0
 Under-replicated blocks:      0
 Mis-replicated blocks:        0
 Default replication factor:   1
 Average block replication:    0.0
 Missing blocks:               0
 Corrupt blocks:               0
 Missing replicas:             0
 Blocks queued for replication: 0
```



```
 Over-replicated blocks:       0
 Under-replicated blocks:      0
 Mis-replicated blocks:        0
 Default replication factor:   1
 Average block replication:    0.0
 Missing blocks:               0
 Corrupt blocks:               0
 Missing replicas:             0
 Blocks queued for replication: 0

Erasure Coded Block Groups:
 Total size:    0 B
 Total files:   0
 Total block groups (validated):        0
 Minimally erasure-coded block groups: 0
 Over-erasure-coded block groups:       0
 Under-erasure-coded block groups:      0
 Unsatisfactory placement block groups: 0
 Average block group size:     0.0
 Missing block groups:         0
 Corrupt block groups:         0
 Missing internal blocks:      0
 Blocks queued for replication: 0
FSCK ended at Thu Oct 10 11:06:57 IST 2024 in 17 milliseconds


The filesystem under path '/' is HEALTHY
                                              ✓  at 11:06:57 ⊘
  hdfs dfs -mkdir /21bce020
2024-10-10 11:07:25,882 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
                                              ✓  at 11:07:26 ⊘
  hdfs dfs -ls /
2024-10-10 11:08:28,932 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
Found 2 items
drwxr-xr-x   - azimtheba supergroup          0 2024-10-10 11:07 /21bce020
drwxr-xr-x   - azimtheba supergroup          0 2024-10-10 09:22 /user
                                              ✓  at 11:08:29 ⊘
```

```
hdfs dfs -ls /
2024-10-10 11:08:28,932 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
Found 2 items
drwxr-xr-x   - azimtheba supergroup          0 2024-10-10 11:07 /21bce020
drwxr-xr-x   - azimtheba supergroup          0 2024-10-10 09:22 /user
                                                                                    ✓   at 11:08:29 ⊙
```
```
hdfs dfs -touch /hadoop.txt
2024-10-10 11:19:03,909 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
                                                                                    ✓   at 11:19:04 ⊙
```
```
hdfs dfs -ls
2024-10-10 11:19:17,893 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
ls: `.': No such file or directory
                                                                                1 ✗   at 11:19:18 ⊙
```
```
hdfs dfs -ls /
2024-10-10 11:19:21,882 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
Found 3 items
drwxr-xr-x   - azimtheba supergroup          0 2024-10-10 11:07 /21bce020
-rw-r--r--   1 azimtheba supergroup          0 2024-10-10 11:19 /hadoop.txt
drwxr-xr-x   - azimtheba supergroup          0 2024-10-10 09:22 /user
                                                                                    ✓   at 11:19:22 ⊙
```
```
hdfs dfs -rm /hadoop.txt
2024-10-10 11:19:41,017 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
Deleted /hadoop.txt
                                                                                    ✓   at 11:19:41 ⊙
```
```
hdfs dfs -ls /
2024-10-10 11:19:46,210 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
Found 2 items
drwxr-xr-x   - azimtheba supergroup          0 2024-10-10 11:07 /21bce020
drwxr-xr-x   - azimtheba supergroup          0 2024-10-10 09:22 /user
                                                                                    ✓   at 11:19:47 ⊙
```

```
                                                                            255 ✗   at 11:21:05 ⊙
hdfs dfs -count /
2024-10-10 11:21:12,151 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
           4            0                  0 /
                                                                                    ✓   at 11:21:12 ⊙
```
```
hdfs dfsadmin -report
2024-10-10 11:22:41,336 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
Configured Capacity: 1000240963584 (931.55 GB)
Present Capacity: 738724794368 (687.99 GB)
DFS Remaining: 738724782080 (687.99 GB)
DFS Used: 12288 (12 KB)
DFS Used%: 0.00%
Replicated Blocks:
        Under replicated blocks: 0
        Blocks with corrupt replicas: 0
        Missing blocks: 0
        Missing blocks (with replication factor 1): 0
        Low redundancy blocks with highest priority to recover: 0
        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: 127.0.0.1:9866 (localhost)
Hostname: localhost
Decommission Status : Normal
Configured Capacity: 1000240963584 (931.55 GB)
DFS Used: 12288 (12 KB)
Non DFS Used: 261516169216 (243.56 GB)
DFS Remaining: 738724782080 (687.99 GB)
DFS Used%: 0.00%
DFS Remaining%: 73.85%
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: 0
Last contact: Thu Oct 10 11:22:41 IST 2024
Last Block Report: Thu Oct 10 11:04:52 IST 2024
Num of Blocks: 0
                                                                                    ✓   at 11:22:42 ⊙
```