

Prácticas BigData

1. Administración de HDFS

Realizar un report del sistema HDFS

hdfs dfsadmin -report

Configured Capacity: 50940104704 (47.44 GB)

Present Capacity: 44860829696 (41.78 GB)
DFS Remaining: 44859387904 (41.78 GB)

DFS Used: 1441792 (1.38 MB)

DFS Used%: 0.00%

Under replicated blocks: 0

Blocks with corrupt replicas: 0

Missing blocks: 0

Live datanodes (1):

Name: 127.0.0.1:50010 (localhost)

Hostname: localhost

Decommission Status: Normal

Configured Capacity: 50940104704 (47.44 GB)

DFS Used: 1441792 (1.38 MB)

Non DFS Used: 6079275008 (5.66 GB)

DFS Remaining: 44859387904 (41.78 GB)

DFS Used%: 0.00%

DFS Remaining%: 88.06%

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: 1

Last contact: Mon Apr 20 08:17:15 CEST 2015

• Comprobar con hdfs fsck el estado del sistema de ficheros

hdfs fsck /



Connecting to namenode via http://localhost:50070

FSCK started by hadoop (auth:SIMPLE) from /127.0.0.1 for path / at Mon Apr 20 08:19:57 CEST 2015

.....Status: HEALTHY

Total size: 1380389 B

Total dirs: 6
Total files: 6

Total symlinks: 0

Total blocks (validated): 5 (avg. block size 276077 B)

Minimally replicated blocks: 5 (100.0 %)

Over-replicated blocks: 0 (0.0 %)Under-replicated blocks: 0 (0.0 %)Mis-replicated blocks: 0 (0.0 %)

Default replication factor: 1

Average block replication: 1.0

Corrupt blocks:

Missing replicas: 0 (0.0 %)

Number of data-nodes: 1

Number of racks: 1

FSCK ended at Mon Apr 20 08:19:57 CEST 2015 in 14 milliseconds

The filesystem under path '/' is HEALTHY

• También Podemos comprobar el estado de un determinado directorio, por ejemplo de prácticas

hdfs fsck /practicas

Connecting to namenode via http://localhost:50070/fsck?ugi=hadoop&path=%2Fpracticas

FSCK started by hadoop (auth:SIMPLE) from /127.0.0.1 for path /practicas at Sat Jan 06 19:55:19 CET 2018

...Status: HEALTHY
Total size: 2647821 B

Total dirs: 2
Total files: 3

Total symlinks: 0

Total blocks (validated): 2 (avg. block size 1323910 B)

Minimally replicated blocks: 2 (100.0 %)

Over-replicated blocks: 0 (0.0 %)



Under-replicated blocks: 0 (0.0 %)

Mis-replicated blocks: 0 (0.0 %)

Default replication factor: 1

Average block replication: 1.0

Corrupt blocks:

Missing replicas: 0 (0.0 %)

Number of data-nodes: 1

Number of racks: 1

FSCK ended at Sat Jan 06 19:55:19 CET 2018 in 7 milliseconds

• Podemos ver la topología que tenemos en este momento

hdfs dfsadmin -printTopology

Rack: /default-rack

127.0.0.1:50010 (localhost)

• Podemos comprobar si hay algún fichero abierto

hdfs dfsadmin -listOpenFiles

Client Host Client Name Open File Path

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