

Demo

March 5, 2019

```
In [1]: %%bash
        hdfs dfs -ls /
```

```
Found 2 items
drwxr-xr-x   - root supergroup          0 2017-09-10 20:34 /data
drwxr-xr-x   - root supergroup          0 2017-09-10 19:07 /user
```

```
In [2]: ! hdfs dfs -ls /data/wiki
```

```
Found 1 items
drwxrwxrwx   - jovyan supergroup        0 2017-09-10 20:34 /data/wiki/en_articles_part
```

```
In [3]: ! hdfs dfs -du -h /data
```

```
73.3 M   /data/wiki
```

```
In [6]: ! hdfs fsck /data/wiki/en_articles_part/articles-part -files -blocks -locations
```

```
Connecting to namenode via http://localhost:50070/fsck?ugi=jovyan&files=1&blocks=1&locations=1&path=/data/wiki/en_articles_part/articles-part
FSCK started by jovyan (auth:SIMPLE) from /127.0.0.1 for path /data/wiki/en_articles_part/articles-part
/data/wiki/en_articles_part/articles-part 76861985 bytes, 1 block(s):  OK
0. BP-912138591-172.17.0.1-1508245861251:blk_1073741825_1001 len=76861985 Live_repl=1 [Datanode1@172.17.0.1:50070]
```

```
Status: HEALTHY
```

```
Total size:          76861985 B
Total dirs:           0
Total files:           1
Total symlinks:        0
Total blocks (validated): 1 (avg. block size 76861985 B)
Minimally replicated blocks: 1 (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:        0
```

```
Missing replicas:          0 (0.0 %)
Number of data-nodes:      1
Number of racks:           1
FSCK ended at Tue Mar 05 10:06:32 UTC 2019 in 17 milliseconds
```

The filesystem under path '/data/wiki/en_articles_part/articles-part' is HEALTHY

```
In [7]: ! hdfs fsck /data/wiki/en_articles_part/articles-part -blockId blk_1073741825
```

```
Connecting to namenode via http://localhost:50070/fsck?ugi=jovyan&blockId=blk_1073741825+&path=%
FSCK started by jovyan (auth:SIMPLE) from /127.0.0.1 at Tue Mar 05 10:09:16 UTC 2019
```

```
Block Id: blk_1073741825
Block belongs to: /data/wiki/en_articles_part/articles-part
No. of Expected Replica: 1
No. of live Replica: 1
No. of excess Replica: 0
No. of stale Replica: 0
No. of decommissioned Replica: 0
No. of decommissioning Replica: 0
No. of corrupted Replica: 0
Block replica on datanode/rack: 1ad0ecc7064f/default-rack is HEALTHY
```