Taller 5b

Big Data

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1.

Con el segundo parámetro define fs. defaultFS, el cual es el nombre del file system por defecto, a hdfs://localhost:9000/.

3.

El primer parámetro dfs.replication define el número total de archivos en el file system a 1.

5.

El parámetro mapreduce.framework.name define el framework de ejecución de MapReduce a YARN.

6.

El parámetro fijado (yarn.nodemanager.aux-services) define el servicio auxiliar del NodeManager a mapreduce_suffle.

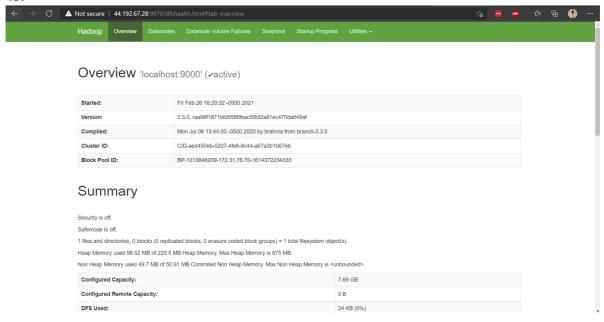
9.

```
STARTUP_MSG:
              java = 1.8.0_282
***********
2021-02-26 20:43:53,170 INFO namenode.NameNode: registered UNIX signal handlers
for [TERM, HUP, INT]
2021-02-26 20:43:53,288 INFO namenode.NameNode: createNameNode [-format]
2021-02-26 20:43:53,960 INFO namenode. NameNode: Formatting using clusterid: CID-
aed450eb-52d7-4fe6-8c44-a67a3b1b67eb
2021-02-26 20:43:54,019 INFO namenode.FSEditLog: Edit logging is async:true
2021-02-26 20:43:54,068 INFO namenode.FSNamesystem: KeyProvider: null
2021-02-26 20:43:54,070 INFO namenode.FSNamesystem: fsLock is fair: true
2021-02-26 20:43:54,072 INFO namenode.FSNamesystem: Detailed lock hold time
metrics enabled: false
2021-02-26 20:43:54,085 INFO namenode.FSNamesystem: fsowner
ubuntu (auth:SIMPLE)
2021-02-26 20:43:54,085 INFO namenode.FSNamesystem: supergroup
supergroup
2021-02-26 20:43:54,085 INFO namenode.FSNamesystem: isPermissionEnabled
2021-02-26 20:43:54,085 INFO namenode.FSNamesystem: isStoragePolicyEnabled =
2021-02-26 20:43:54,085 INFO namenode.FSNamesystem: HA Enabled: false
2021-02-26 20:43:54,155 INFO common.util:
dfs.datanode.fileio.profiling.sampling.percentage set to 0. Disabling file IO
profiling
```

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2021-02-26 20:43:54,172 INFO blockmanagement.DatanodeManager:
dfs.block.invalidate.limit: configured=1000, counted=60, effected=1000
2021-02-26 20:43:54,172 INFO blockmanagement.DatanodeManager:
dfs.namenode.datanode.registration.ip-hostname-check=true
2021-02-26 20:43:54,176 INFO blockmanagement.BlockManager:
dfs.namenode.startup.delay.block.deletion.sec is set to 000:00:00:00.000
2021-02-26 20:43:54,176 INFO blockmanagement.BlockManager: The block deletion
will start around 2021 Feb 26 20:43:54
2021-02-26 20:43:54,178 INFO util.GSet: Computing capacity for map BlocksMap
2021-02-26 20:43:54,178 INFO util.GSet: VM type
                                                  = 64-bit
2021-02-26 20:43:54,181 INFO util.GSet: 2.0% max memory 875 MB = 17.5 MB
2021-02-26 20:43:54,181 INFO util.GSet: capacity = 2^2 = 2097152 entries
2021-02-26 20:43:54,193 INFO blockmanagement.BlockManager: Storage policy
satisfier is disabled
2021-02-26 20:43:54,193 INFO blockmanagement.BlockManager:
dfs.block.access.token.enable = false
2021-02-26 20:43:54,201 INFO blockmanagement.BlockManagerSafeMode:
dfs.namenode.safemode.threshold-pct = 0.999
2021-02-26 20:43:54,201 INFO blockmanagement.BlockManagerSafeMode:
dfs.namenode.safemode.min.datanodes = 0
2021-02-26 20:43:54,201 INFO blockmanagement.BlockManagerSafeMode:
dfs.namenode.safemode.extension = 30000
2021-02-26 20:43:54,202 INFO blockmanagement.BlockManager: defaultReplication
2021-02-26 20:43:54,202 INFO blockmanagement.BlockManager: maxReplication
2021-02-26 20:43:54,202 INFO blockmanagement.BlockManager: minReplication
2021-02-26 20:43:54,202 INFO blockmanagement.BlockManager: maxReplicationStreams
2021-02-26 20:43:54,202 INFO blockmanagement.BlockManager:
redundancyRecheckInterval = 3000ms
2021-02-26 20:43:54,202 INFO blockmanagement.BlockManager: encryptDataTransfer
    = false
2021-02-26 20:43:54,202 INFO blockmanagement.BlockManager: maxNumBlocksToLog
2021-02-26 20:43:54,240 INFO namenode.FSDirectory: GLOBAL serial map: bits=29
maxEntries=536870911
2021-02-26 20:43:54,240 INFO namenode.FSDirectory: USER serial map: bits=24
maxEntries=16777215
2021-02-26 20:43:54,240 INFO namenode.FSDirectory: GROUP serial map: bits=24
maxEntries=16777215
2021-02-26 20:43:54,240 INFO namenode.FSDirectory: XATTR serial map: bits=24
maxEntries=16777215
2021-02-26 20:43:54,274 INFO util.GSet: Computing capacity for map INodeMap
2021-02-26 20:43:54,275 INFO util.GSet: VM type = 64-bit
2021-02-26 20:43:54,275 INFO util.GSet: 1.0% max memory 875 MB = 8.8 MB
2021-02-26 20:43:54,275 INFO util.GSet: capacity = 2^2 = 1048576 entries
2021-02-26 20:43:54,276 INFO namenode.FSDirectory: ACLs enabled? true
2021-02-26 20:43:54,276 INFO namenode.FSDirectory: POSIX ACL inheritance
enabled? true
2021-02-26 20:43:54,276 INFO namenode.FSDirectory: XAttrs enabled? true
2021-02-26 20:43:54,276 INFO namenode. NameNode: Caching file names occurring
more than 10 times
2021-02-26 20:43:54,284 INFO snapshot.SnapshotManager: Loaded config
captureOpenFiles: false, skipCaptureAccessTimeOnlyChange: false,
snapshotDiffAllowSnapRootDescendant: true, maxSnapshotLimit: 65536
2021-02-26 20:43:54,286 INFO snapshot.SnapshotManager: SkipList is disabled
```

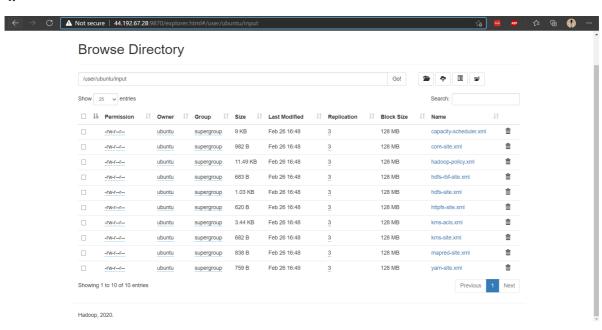
```
2021-02-26 20:43:54,291 INFO util.GSet: Computing capacity for map cachedBlocks
2021-02-26 20:43:54,291 INFO util.GSet: VM type
                                               = 64-bit
2021-02-26 20:43:54,291 INFO util.GSet: 0.25% max memory 875 MB = 2.2 MB
2021-02-26 20:43:54,291 INFO util.GSet: capacity = 2^{18} = 262144 entries
2021-02-26 20:43:54,302 INFO metrics. TopMetrics: NNTop conf:
dfs.namenode.top.window.num.buckets = 10
2021-02-26 20:43:54,302 INFO metrics. TopMetrics: NNTop conf:
dfs.namenode.top.num.users = 10
2021-02-26 20:43:54,302 INFO metrics. TopMetrics: NNTop conf:
dfs.namenode.top.windows.minutes = 1,5,25
2021-02-26 20:43:54,306 INFO namenode.FSNamesystem: Retry cache on namenode is
enabled
2021-02-26 20:43:54,306 INFO namenode.FSNamesystem: Retry cache will use 0.03 of
total heap and retry cache entry expiry time is 600000 millis
2021-02-26 20:43:54,310 INFO util.GSet: Computing capacity for map
NameNodeRetryCache
2021-02-26 20:43:54,310 INFO util.GSet: VM type
                                                = 64-bit
2021-02-26 20:43:54,310 INFO util.GSet: 0.029999999329447746% max memory 875 MB
= 268.8 KB
2021-02-26 20:43:54,310 INFO util.GSet: capacity
                                              = 2^15 = 32768 entries
2021-02-26 20:43:54,342 INFO namenode.FSImage: Allocated new BlockPoolid: BP-
1013846209-172.31.76.70-1614372234333
2021-02-26 20:43:54,373 INFO common.Storage: Storage directory
/home/ubuntu/bigdata/hadoop/tmp/dfs/name has been successfully formatted.
2021-02-26 20:43:54,427 INFO namenode.FSImageFormatProtobuf: Saving image file
using no compression
2021-02-26 20:43:54,584 INFO namenode.FSImageFormatProtobuf: Image file
of size 401 bytes saved in 0 seconds.
2021-02-26 20:43:54,606 INFO namenode.NNStorageRetentionManager: Going to retain
1 images with txid >= 0
2021-02-26 20:43:54,612 INFO namenode.FSImage: FSImageSaver clean checkpoint:
txid=0 when meet shutdown.
2021-02-26 20:43:54,613 INFO namenode.NameNode: SHUTDOWN_MSG:
/****************
SHUTDOWN_MSG: Shutting down NameNode at ip-172-31-76-
70.ec2.internal/172.31.76.70
**********
```

13.



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4.



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3.

