

Big Data Tp1

Partie 1: Installation et Configuration

1)cloner:

master	15 Branches	7 Tags	Go to file	Add file	Code
gmouchakis Merge pull request #77 from wojcikowski-kvs/master 8414e2b · 4 years ago 76 Commits					
base	Merge pull request #77 from wojcikowski-kvs/master				4 years ago
datanode	Fix				4 years ago
historyserver	Fix				4 years ago
namenode	Remove lost+found dir				4 years ago
nginx	using ngx_http_sub_module for injecting CSS				8 years ago
nodemanager	Fix				4 years ago
resourcemanager	Fix				4 years ago
submit	Fix				4 years ago
.gitignore	fixing docker-compose for hadoop cluster deployment				8 years ago
Makefile	moved to 3.2.1/stable hadoop version				5 years ago
README.md	docker hadoop v3.1.1				6 years ago
docker-compose-v3.yml	moved to 3.2.1/stable hadoop version				5 years ago
docker-compose.yml	Fix				4 years ago
hadoop.env	Fix				4 years ago

```
C:\Users\21656\Desktop\ING 2\big-data\tp\tp1>git clone https://github.com/big-data-europe/docker-hadoop.git
```

2)docker compose up :

```
C:\Users\21656\Desktop\ING 2\big-data\tp\tp1\docker-hadoop>docker compose up -d
time="2024-09-27T14:33:48+01:00" level=warning msg="C:\\Users\\21656\\Desktop\\ING 2\\big-data\\tp\\tp1\\docker-hadoop\\docker-compose.yml: 'version' is obsolete"
[+] Running 28/28
  ✓ resourcemanager Pulled                                1566.8s
  ✓ b0d76d122f3e Pull complete                            1561.2s
  ✓ b04394db35d Pull complete                             1561.4s
  ✓ historyserver Pulled                                  1566.9s
  ✓ 3192219afd04 Pull complete                           38.3s
  ✓ 7127a1d8cccd Pull complete                           61.2s
  ✓ 883a89599900 Pull complete                           61.3s
  ✓ 77920a3e82af Pull complete                           61.4s
  ✓ 92329e81aec4 Pull complete                           1562.0s
  ✓ f373218fec59 Pull complete                           1562.1s
  ✓ b2dc88cebe05 Pull complete                           1562.4s
  ✓ 13b908769168 Pull complete                           1562.5s
  ✓ 0991d53828a1 Pull complete                           1562.7s
  ✓ namenode Pulled                                       1566.9s
  ✓ aa53513fe997 Pull complete                            1562.1s
  ✓ 8b1800105b98 Pull complete                            1562.2s
  ✓ c3a84a3e49c8 Pull complete                            1562.3s
  ✓ a65640a64a76 Pull complete                            1562.3s
  ✓ facffb3a6de3 Pull complete                            1562.4s
  ✓ c71a6df73788 Pull complete                            1562.6s
  ✓ 73b8c0cb707 Pull complete                            1562.7s
  ✓ datanode Pulled                                       1566.9s
  ✓ 3ca2ec07078c Pull complete                            1562.4s
  ✓ 26c2d4d45030e Pull complete                          1562.6s
  ✓ 13c9c87ad46cb Pull complete                          1562.8s
  ✓ nodemanager1 Pulled                                   1566.7s
  ✓ beaal71f32f6 Pull complete                            1557.0s
  ✓ 50dda04de8a9 Pull complete                            1557.1s
[+] Running 4/9
  ✓ Network docker-hadoop_default                        Created                                0.1s
  ✓ Volume "docker-hadoop_hadoop_namenode"               Created                                0.0s
  ✓ Volume "docker-hadoop_hadoop_datanode"               Created                                0.0s
  ✓ Volume "docker-hadoop_hadoop_historyserver"          Created                                0.0s
  - Container namenode                                   Creating                               9.2s
```

CONTAINER ID	IMAGE	COMMAND NAMES	CREATED	STATUS	PORTS
ccbf5fa27284	bde2020/hadoop-datanode:2.0.0-hadoop3.2.1-java8	"/entrypoint.sh /run..." datanode	About a minute ago	Up About a minute (healthy)	9864/tcp
9dc6b6f1ff23	bde2020/hadoop-historyserver:2.0.0-hadoop3.2.1-java8	"/entrypoint.sh /run..." historyserver	About a minute ago	Up About a minute (healthy)	8188/tcp
c81560075edd	bde2020/hadoop-resourcemanager:2.0.0-hadoop3.2.1-java8	"/entrypoint.sh /run..." resourcemanager	About a minute ago	Up About a minute (healthy)	8088/tcp
c6aaedb5c95e	bde2020/hadoop-nodemanager:2.0.0-hadoop3.2.1-java8	"/entrypoint.sh /run..." nodemanager	About a minute ago	Up About a minute (healthy)	8042/tcp
42889edbd740	bde2020/hadoop-namenode:2.0.0-hadoop3.2.1-java8	"/entrypoint.sh /run..." namenode	About a minute ago	Up About a minute (healthy)	0.0.0.0: 9000->9000/tcp, :::9000->9000/tcp, 0.0.0.0:9870->9870/tcp, :::9870->9870/tcp

Partie 2: Commandes de HDFS

Ouvrir le bash dans le conteneur namenode :

```
C:\Users\21656\Desktop\ING 2\big-data\tp\tp1\docker-hadoop>docker exec -it namenode bash
root@42889edbd740:/#
```

Créer un fichier nommé bonjour contenant Bonjour Hadoop et HDFS dans le SE linux du namenode :

```
root@42889edbd740:/# echo "Bonjour Hadoop et HDFS">bonjour.txt
```

Interaction avec Hadoop :

```
root@42889edbd740:/# hdfs dfs -ls
ls: `.`: No such file or directory
```

```
root@42889edbd740:/# hdfs dfs -mkdir -p /
```

```
root@42889edbd740:/# hdfs dfs -ls /user
Found 1 items
drwxr-xr-x - root supergroup 0 2024-09-27 14:13 /user/root
```

```
root@42889edbd740:/# hdfs dfs -ls /
Found 1 items
drwxr-xr-x - root supergroup 0 2024-09-27 14:00 /rmstate
```

```
root@42889edbd740:/# hdfs dfs -ls -R -h /
drwxr-xr-x - root supergroup 0 2024-09-27 14:00 /rmstate
drwxr-xr-x - root supergroup 0 2024-09-27 14:00 /rmstate/FSRMStateRoot
drwxr-xr-x - root supergroup 0 2024-09-27 14:00 /rmstate/FSRMStateRoot/AMRMTTokenSecretManagerRoot
-rw-r--r-- 3 root supergroup 18 2024-09-27 14:00 /rmstate/FSRMStateRoot/AMRMTTokenSecretManagerRoot/AMRMTTokenSecretManagerN
-rw-r--r-- 3 root supergroup 2 2024-09-27 14:00 /rmstate/FSRMStateRoot/EpochNode
drwxr-xr-x - root supergroup 0 2024-09-27 14:00 /rmstate/FSRMStateRoot/RMAppRoot
drwxr-xr-x - root supergroup 0 2024-09-27 14:00 /rmstate/FSRMStateRoot/RMDTSecretManagerRoot
-rw-r--r-- 3 root supergroup 17 2024-09-27 14:00 /rmstate/FSRMStateRoot/RMDTSecretManagerRoot/DelegationKey_1
-rw-r--r-- 3 root supergroup 17 2024-09-27 14:00 /rmstate/FSRMStateRoot/RMDTSecretManagerRoot/DelegationKey_2
-rw-r--r-- 3 root supergroup 4 2024-09-27 14:00 /rmstate/FSRMStateRoot/RMVersionNode
drwxr-xr-x - root supergroup 0 2024-09-27 14:00 /rmstate/FSRMStateRoot/ReservationSystemRoot
```

```
root@42889edbd740:/# hdfs dfs -mkdir -p /ahmed
root@42889edbd740:/# hdfs dfs -ls /
Found 3 items
drwxr-xr-x - root supergroup 0 2024-09-27 14:22 /ahmed
drwxr-xr-x - root supergroup 0 2024-09-27 14:00 /rmstate
drwxr-xr-x - root supergroup 0 2024-09-27 14:13 /user
```

```
root@42889edbd740:/# hdfs dfs -mkdir data
root@42889edbd740:/# hdfs dfs -mkdir data/tp1
root@42889edbd740:/# hdfs dfs -mkdir data/tp2
root@42889edbd740:/# hdfs dfs -mkdir data/tp1/ex1
root@42889edbd740:/# echo "bonjour hadoop">data/tp1/ex1/file1.txt
bash: data/tp1/ex1/file1.txt: No such file or directory
root@42889edbd740:/# echo "bonjour hadoop" > data/tp1/ex1/file1.txt
bash: data/tp1/ex1/file1.txt: No such file or directory
root@42889edbd740:/# echo "bonjour hadoop" > /data/tp1/ex1/file1.txt
bash: /data/tp1/ex1/file1.txt: No such file or directory
root@42889edbd740:/# hdfs dfs -ls data
Found 2 items
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp1
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp2
root@42889edbd740:/# hdfs dfs -ls data/tp1
Found 1 items
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp1/ex1
```

```
root@d32ae7953bba:/# cat bonjour.txt
Bonjour Hadoop et HDFS
```

```
root@d32ae7953bba:/# hdfs dfs -put bonjour.txt
2024-09-29 06:09:57,692 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteH
ostTrusted = false
```

```
root@d32ae7953bba:/# hdfs dfs -ls -R
-rw-r--r-- 3 root supergroup 23 2024-09-29 06:09 bonjour.txt
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp1
drwxr-xr-x - root supergroup 0 2024-09-27 15:05 data/tp1/ex1
-rw-r--r-- 3 root supergroup 0 2024-09-27 15:05 data/tp1/ex1/file1.txt
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp2
```

```
root@d32ae7953bba:/# hdfs dfs -cat bonjour.txt
2024-09-29 06:11:25,501 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteH
ostTrusted = false
Bonjour Hadoop et HDFS
```

```
root@d32ae7953bba:/# hdfs dfs -cat bonjour.txt | more
2024-09-29 06:12:50,313 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteH
ostTrusted = false
Bonjour Hadoop et HDFS
```

```
root@d32ae7953bba:/# hdfs dfs -tail bonjour.txt
2024-09-29 06:12:50,313 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteH
ostTrusted = false
Bonjour Hadoop et HDFS
```

```
root@d32ae7953bba:/# hdfs dfs -rm bonjour.txt
Deleted bonjour.txt
```

```

root@d32ae7953bba:/# hdfs dfs -copyFromLocal bonjour.txt
2024-09-29 06:14:26,807 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
root@d32ae7953bba:/# hdfs dfs -ls -R
-rw-r--r-- 3 root supergroup 23 2024-09-29 06:14 bonjour.txt
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp1
drwxr-xr-x - root supergroup 0 2024-09-27 15:05 data/tp1/ex1
-rw-r--r-- 3 root supergroup 0 2024-09-27 15:05 data/tp1/ex1/file1.txt
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp2

```

```

root@d32ae7953bba:/# hdfs dfs -chmod go+w bonjour.txt
root@d32ae7953bba:/# hdfs dfs -ls -R
-rw-rw-rw- 3 root supergroup 23 2024-09-29 06:14 bonjour.txt
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp1
drwxr-xr-x - root supergroup 0 2024-09-27 15:05 data/tp1/ex1
-rw-r--r-- 3 root supergroup 0 2024-09-27 15:05 data/tp1/ex1/file1.txt
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp2

```

```

root@d32ae7953bba:/# hdfs dfs -chmod go-r bonjour.txt
root@d32ae7953bba:/# hdfs dfs -ls -R
-rw--w--w- 3 root supergroup 23 2024-09-29 06:14 bonjour.txt
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp1
drwxr-xr-x - root supergroup 0 2024-09-27 15:05 data/tp1/ex1
-rw-r--r-- 3 root supergroup 0 2024-09-27 15:05 data/tp1/ex1/file1.txt
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp2

```

```

root@d32ae7953bba:/# hdfs dfs -mv bonjour.txt dossier/bonjour.txt
root@d32ae7953bba:/# hdfs dfs -ls -R
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp1
drwxr-xr-x - root supergroup 0 2024-09-27 15:05 data/tp1/ex1
-rw-r--r-- 3 root supergroup 0 2024-09-27 15:05 data/tp1/ex1/file1.txt
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp2
drwxr-xr-x - root supergroup 0 2024-09-29 06:18 dossier
-rw--w--w- 3 root supergroup 23 2024-09-29 06:14 dossier/bonjour.txt

```

```

root@d32ae7953bba:/# hdfs dfs -get dossier/bonjour.txt bien.txt
2024-09-29 06:20:01,465 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false

```

```

root@d32ae7953bba:/# ls
KEYS      bonjour.txt  boot      etc        hadoop-data  lib      mnt      root     /sbin  tmp
bien.txt  bonjour1.txt dev          file2.txt  hdfs       lib64    opt      run      srv    usr
bin       bonjour2.txt entrypoint.sh  hadoop     home      media    proc     run.sh   sys    var

```

```

root@d32ae7953bba:/# hdfs dfs -cp dossier/bonjour.txt dossier/bien.txt
2024-09-29 06:21:53,749 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
2024-09-29 06:21:53,824 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
root@d32ae7953bba:/# hdfs dfs -ls -R
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp1
drwxr-xr-x - root supergroup 0 2024-09-27 15:05 data/tp1/ex1
-rw-r--r-- 3 root supergroup 0 2024-09-27 15:05 data/tp1/ex1/file1.txt
drwxr-xr-x - root supergroup 0 2024-09-27 14:26 data/tp2
drwxr-xr-x - root supergroup 0 2024-09-29 06:21 dossier
-rw-r--r-- 3 root supergroup 23 2024-09-29 06:21 dossier/bien.txt
-rw--w--w- 3 root supergroup 23 2024-09-29 06:14 dossier/bonjour.txt

```

```

root@d32ae7953bba:/# hdfs dfs -cat dossier/bien.txt
2024-09-29 06:22:37,367 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
Bonjour Hadoop et HDFS

```

```

root@d32ae7953bba:/# hdfs dfs -count -h dossier
1          2          46 dossier

```

```

root@d32ae7953bba:/# hdfs dfs -rm dossier/bonjour.txt
Deleted dossier/bonjour.txt

```

```

root@d32ae7953bba:/# hdfs dfs -ls dossier
Found 1 items
-rw-r--r--   3 root supergroup          23 2024-09-29 06:21 dossier/bien.txt

root@d32ae7953bba:/# hdfs dfs -rm -r dossier
Deleted dossier
root@d32ae7953bba:/# hdfs dfs -ls
Found 1 items
drwxr-xr-x   - root supergroup          0 2024-09-27 14:26 data

```

Partie 3:Création d'une arborescence et téléchargement de fichier :
















Création des répertoires TP's et data :

```

drwxr-xr-x   - root supergroup          0 2024-09-27 14:26 data
root@f4fbf8cfda46:/# hdfs dfs -mkdir -p TP's
root@f4fbf8cfda46:/# hdfs dfs -ls
Found 2 items
drwxr-xr-x   - root supergroup          0 2024-10-01 09:00 TP's
drwxr-xr-x   - root supergroup          0 2024-09-27 14:26 data
root@f4fbf8cfda46:/# hdfs dfs -mkdir -p TP's/data
root@f4fbf8cfda46:/# hdfs dfs -ls TP's
Found 1 items
drwxr-xr-x   - root supergroup          0 2024-10-01 09:00 TP's/data
root@f4fbf8cfda46:/#

```

Téléchargement et copiage du fichier purchases.txt:

	base	9/27/2024 2:32 PM	File folder	
	datanode	9/27/2024 2:32 PM	File folder	
	historyserver	9/27/2024 2:32 PM	File folder	
	namenode	9/27/2024 2:32 PM	File folder	
	nginx	9/27/2024 2:32 PM	File folder	
	nodemanager	9/27/2024 2:32 PM	File folder	
	resourcemanager	9/27/2024 2:32 PM	File folder	
	submit	9/27/2024 2:32 PM	File folder	
	.gitignore	9/27/2024 2:32 PM	Git Ignore Source ...	1 KB
	docker-compose	9/27/2024 2:32 PM	Yaml Source File	2 KB
	docker-compose-v3	9/27/2024 2:32 PM	Yaml Source File	3 KB
	hadoop.env	9/27/2024 2:32 PM	ENV File	3 KB
	Makefile	9/27/2024 2:32 PM	File	2 KB
	purchases	9/29/2024 7:57 AM	Text Document	206,361 KB
	README	9/27/2024 2:32 PM	Markdown Source ...	3 KB

Copier le fichier du local vers namenode :

```

C:\Users\21656\Desktop\ING 2\big-data\tp\tp1\docker-hadoop>docker cp purchases.txt namenode:purchases.txt
Successfully copied 211MB to namenode:purchases.txt

```

```

root@f4fbf8cfda46:/# ls
KEYS  boot  entrypoint.sh  hadoop  home  lib64  mnt  proc  root  run.sh  srv  tmp  var
bin  dev  etc           hadoop-data  lib  media  opt  purshases.txt  run  sbin  sys  usr

```

Téléchargement des fichiers en utilisant docker exec :

```

C:\Users\21656\Desktop\ING 2\big-data\tp\tp1\docker-hadoop>docker exec -it namenode curl -o pg4300.txt https://www.gutenberg.org/cache/epub/4300/pg4300.txt
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100 1549k  100 1549k    0     0  373k      0  0:00:04  0:00:04 --:--:-- 374k

C:\Users\21656\Desktop\ING 2\big-data\tp\tp1\docker-hadoop>docker exec -it namenode curl -o pg135.txt https://www.gutenberg.org/cache/epub/135/pg135.txt
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100 3290k  100 3290k    0     0  517k      0  0:00:06  0:00:06 --:--:-- 638k

root@f4fbf8cfda46:/# ls
KEYS  boot  entrypoint.sh  hadoop  home  lib64  mnt  pg135.txt  proc  root  run.sh  srv  tmp  var
bin  dev  etc           hadoop-data  lib  media  opt  pg4300.txt  purshases.txt  run  sbin  sys  usr

```

Mettre les fichiers su hdfs :

```

root@f4fbf8cfda46:/# hdfs dfs -put purshases.txt
2024-10-01 09:24:09,892 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-10-01 09:24:10,500 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
root@f4fbf8cfda46:/# hdfs dfs -put pg4300.txt
2024-10-01 09:24:22,658 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
root@f4fbf8cfda46:/# hdfs dfs -put pg135.txt
2024-10-01 09:24:29,828 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
root@f4fbf8cfda46:/# hdfs dfs -ls
Found 5 items
drwxr-xr-x   - root supergroup          0 2024-10-01 09:00 TPs
drwxr-xr-x   - root supergroup          0 2024-09-27 14:26 data
-rw-r--r--   3 root supergroup    3369259 2024-10-01 09:24 pg135.txt
-rw-r--r--   3 root supergroup    1586382 2024-10-01 09:24 pg4300.txt
-rw-r--r--   3 root supergroup    211312924 2024-10-01 09:24 purshases.txt

```

Déplacement des fichiers dans le sous dossier data :

```

root@f4fbf8cfda46:/# hdfs dfs -mv purshases.txt TPs/data/purshases.txt
root@f4fbf8cfda46:/# hdfs dfs -mv pg4300.txt TPs/data/pg4300.txt
root@f4fbf8cfda46:/# hdfs dfs -mv pg135.txt TPs/data/pg135.txt
root@f4fbf8cfda46:/# hdfs dfs -ls TPs/data/
Found 3 items
-rw-r--r--   3 root supergroup    3369259 2024-10-01 09:24 TPs/data/pg135.txt
-rw-r--r--   3 root supergroup    1586382 2024-10-01 09:24 TPs/data/pg4300.txt
-rw-r--r--   3 root supergroup    211312924 2024-10-01 09:24 TPs/data/purshases.txt

```

Etat du cluster :

Overview :

Word | Microsoft 365

Conteneurisation

Document 1.docx

Namenode information

192.168.134.3:9870/dfshealth.html#tab-overview

Hadoop

Overview

Datanodes

Datanode Volume Failures

Snapshot

Startup Progress

Utilities

Overview 'namenode:9000' (active)

Started:	Tue Oct 01 09:58:33 +0100 2024
Version:	3.2.1, rb3cbbb467e22ea829b3808f4b7b01d07e0bf3842
Compiled:	Tue Sep 10 16:56:00 +0100 2019 by rohlithsharmaks from branch-3.2.1
Cluster ID:	CID-db9d9775-aa29-48bd-951c-00d5cb06e922
Block Pool ID:	BP-381490519-172.18.0.5-1727445612830

Summary

Security is off.
 Safemode is off.
 32 files and directories, 15 blocks (15 replicated blocks, 0 erasure coded block groups) = 47 total filesystem object(s).
 Heap Memory used 220.37 MB of 489.5 MB Heap Memory. Max Heap Memory is 2.36 GB.
 Non Heap Memory used 62.05 MB of 63.44 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>.

Configured Capacity:	58.73 GB
Configured Remote Capacity:	0 B
DFS Used:	208.01 MB (0.35%)

Datanodes :

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Conteneurisation

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Namenode information

192.168.134.3:9870/dfshealth.html#tab-datanode

Hadoop

Overview

Datanodes

Datanode Volume Failures

Snapshot

Startup Progress

Utilities

Datanode Information

✓ In service
⬇ Down
🔄 Decommissioning
🚫 Decommissioned
💀 Decommissioned & dead

👉 Entering Maintenance
👈 In Maintenance
👎 In Maintenance & dead

Datanode usage histogram

In operation

Show entries

Search:

Node	Http Address	Last contact	Last Block Report	Capacity	Blocks	Block pool used	Version
------	--------------	--------------	-------------------	----------	--------	-----------------	---------

Utilities :

Browse Directory

/

Got

📁

🔍

📄

Show

25

entries

Search:

<input type="checkbox"/>	<div>📄</div> Permission	<div>👤</div> Owner	<div>👤</div> Group	<div>📏</div> Size	<div>🕒</div> Last Modified	<div>🔄</div> Replication	<div>📏</div> Block Size	<div>🏷</div> Name	<div>🗑</div>
<input type="checkbox"/>	drwxr-xr-x	root	supergroup	0 B	Oct 01 10:00	0	0 B	TPs	<div>🗑</div>
<input type="checkbox"/>	drwxr-xr-x	root	supergroup	0 B	Sep 27 15:22	0	0 B	ahmed	<div>🗑</div>
<input type="checkbox"/>	drwxr-xr-x	root	supergroup	0 B	Sep 27 15:00	0	0 B	rmstate	<div>🗑</div>
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