

Gluster

Configuration

```
gluster volume set v0 network.ping-timeout 5
```

Faut il ? :

```
sudo gluster volume set v0 cluster.server-quorum-type server
```

Commandes utiles

Options du volume

```
sudo gluster volume get v0 all
```

```
# sudo gluster volume status v0
detail
                                dugravot6@minipc1 ↵ 21:10:03

Status of volume: gv0
-----
Brick      : Brick minipc1:/data/brick1/v0
TCP Port   : 49153
RDMA Port  : 0
Online     : Y
Pid        : 91087
File System : xfs
Device     : /dev/mapper/minipc1--vg-brick1
Mount Options : rw,relatime,attr2,inode64,logbufs=8,logbsize=32k,noquota
Inode Size : 512
Disk Space Free : 9.4GB
```

Total Disk Space : 10.0GB

Inode Count : 5242880

Free Inodes : 5170060

Brick : Brick minipc2:/data/brick1/v0

TCP Port : 49152

RDMA Port : 0

Online : Y

Pid : 865

File System : xfs

Device : /dev/mapper/minipc2--vg-brick1

Mount Options : rw,relatime,attr2,inode64,logbufs=8,logbsize=32k,noquota

Inode Size : 512

Disk Space Free : 9.4GB

Total Disk Space : 10.0GB

Inode Count : 5242880

Free Inodes : 5170060

Brick : Brick pi1:/data/brick1/v0

TCP Port : 49152

RDMA Port : 0

Online : Y

Pid : 1089

File System : ext4

Device : /dev/root

Mount Options : rw,noatime

Inode Size : N/A

Disk Space Free : 53.4GB

Total Disk Space : 58.2GB

Inode Count : 3852672

Free Inodes : 3644730

```
sudo gluster volume status
```

```
v0
```

```
dugravot6@minipc1 ⚡ 21:06:48
```

```
Status of volume: gv0
```

```
Gluster process          TCP Port  RDMA Port  Online  Pid
```

```
-----  
Brick minipc1:/data/brick1/gv0      49153    0          Y      91087
```

```
Brick minipc2:/data/brick1/gv0      49152    0          Y      865
```

```

Brick pi1:/data/brick1/gv0          49152  0    Y    1089
Self-heal Daemon on localhost      N/A    N/A   Y    91110
Self-heal Daemon on minipc2       N/A    N/A   Y    876
Self-heal Daemon on pi1           N/A    N/A   Y    1188

```

Task Status of Volume gv0

There are no active volume tasks

```

sudo gluster volume status v0

```

```

clients

```

```

                dugravot6@minipc1 ⚡ 21:08:53

```

```

Client connections for volume gv0

```

```

Brick : minipc1:/data/brick1/gv0

```

```

Clients connected : 2

```

| Hostname | BytesRead | BytesWritten | OpVersion |
|-----------------|-----------|--------------|-----------|
| ----- | ----- | ----- | |
| 127.0.0.1:49145 | 4940 | 5344 | 90000 |
| 127.0.0.1:49144 | 121252 | 107068 | 90000 |

```

Brick : minipc2:/data/brick1/gv0

```

```

Clients connected : 7

```

| Hostname | BytesRead | BytesWritten | OpVersion |
|---------------------|-----------|--------------|-----------|
| ----- | ----- | ----- | |
| 192.168.1.142:49136 | 2024 | 1596 | 90000 |
| 192.168.1.133:49140 | 3072 | 2956 | 90000 |
| 192.168.1.133:49138 | 2662750 | 11976 | 90000 |
| 192.168.1.141:49144 | 60717900 | 46588484 | 90000 |
| 192.168.1.142:49134 | 17660 | 19124 | 90000 |
| 192.168.1.141:49147 | 1688 | 1792 | 90000 |
| 192.168.1.141:49141 | 121308 | 107068 | 90000 |

```

Brick : pi1:/data/brick1/gv0

```

```

Clients connected : 7

```

| Hostname | BytesRead | BytesWritten | OpVersion |
|---------------------|-----------|--------------|-----------|
| ----- | ----- | ----- | |
| 192.168.1.141:49142 | 69540850 | 59101132 | 90000 |
| 192.168.1.133:49142 | 75000 | 59132 | 90000 |

| | | | |
|---------------------|--------|-------|-------|
| 192.168.1.133:49139 | 8980 | 8420 | 90000 |
| 192.168.1.142:49145 | 3424 | 3208 | 90000 |
| 192.168.1.142:49139 | 7316 | 6508 | 90000 |
| 192.168.1.141:49146 | 1684 | 1784 | 90000 |
| 192.168.1.141:49140 | 100176 | 86464 | 90000 |

Volume top

Lecture de fichiers :

```
# sudo gluster volume top v0 read list-cnt 10                                dugravot6@minipc1 16:50:13
Brick: minipc1:/data/brick1/volume1
Count      filename
=====
62285      /UPTIME-KUMA/datas/kuma.db
23020      /UPTIME-KUMA/datas/kuma.db-wal
2290       /JELLYFIN/config/data/library.db
1987       /JELLYFIN/config/data/library.db-journal
725        /PORTAINER/datas/portainer.db
431        /JDOWNLOADER2/data/config/Core.jar
405        /JDOWNLOADER2/data/config/JDownloader.jar
310        /FRESHRSS/prod/data/varlibmysql/rss/dugravot6_entry.ibd
289        /FRESHRSS/prod/data/varlibmysql/ibdata1
286        /BOOKSTACK/db/config/databases/ibdata1
Brick: minipc2:/data/brick1/volume1
```

Ouverture de fichiers :

```
# sudo gluster volume top v0 open list-cnt
10
                                dugravot6@minipc1 16:51:27
Brick: minipc1:/data/brick1/volume1
Current open fds: 196, Max open fds: 198, Max openfd time: 2023-03-17 15:36:30.422556 +0000
Count      filename
=====
200        /NGINX/data/acme/acme.sh/stephane@dugravot.fr/whoami.local/whoami.local.conf
109        /NGINX/data/acme/acme.sh/stephane@dugravot.fr/http.header
```

```

66      /NGINX/data/acme/acme.sh/stephane@dugravot.fr/account.conf
24      /NGINX/data/acme/acme.sh/stephane@dugravot.fr/whoami.local/whoami.local.key
24      /NGINX/data/acme/acme.sh/stephane@dugravot.fr/whoami.local/whoami.local.csr.conf
11      /FRESHRSS/prod/data/freshrss/users/dugravot6/log.txt
8       /NGINX/data/acme/acme.sh/stephane@dugravot.fr/whoami.local/whoami.local.csr
7       /NGINX/data/certs/wiki.dugravot.fr/.companion
7       /FRESHRSS/prod/data/varlibmysql/mysql/plugin.MAI
7       /FRESHRSS/prod/data/varlibmysql/mysql/plugin.MAD
Brick: minipc2:/data/brick1/volume1
Current open fds: 196, Max open fds: 197, Max openfd time: 2023-03-17 16:06:54.886386 +0000
Count   filename
=====
25      <gfid:34f34f23-979e-46d6-b39c-
8c224b444058>/stephane@dugravot.fr/whoami.local/whoami.local.conf
17      <gfid:34f34f23-979e-46d6-b39c-8c224b444058>/stephane@dugravot.fr/http.header
12      <gfid:34f34f23-979e-46d6-b39c-8c224b444058>/stephane@dugravot.fr/account.conf
4       /JDOWNLOADER2/data/config/JDownloader.jar
4       /JDOWNLOADER2/data/config/xdg/cache/fontconfig/5ca8086aeacc9c68e81a71e7ef846b3b-
le64.cache-8
4       /JDOWNLOADER2/data/config/xdg/cache/fontconfig/386ad34c5eae46f7db63aa04756d58d-
le64.cache-8
4       /JDOWNLOADER2/data/config/xdg/cache/fontconfig/605eb33399efa08596766eba8c7361d5-
le64.cache-8
3       <gfid:34f34f23-979e-46d6-b39c-
8c224b444058>/stephane@dugravot.fr/whoami.local/whoami.local.key
3       <gfid:34f34f23-979e-46d6-b39c-
8c224b444058>/stephane@dugravot.fr/whoami.local/whoami.local.csr.conf
3       /JDOWNLOADER2/data/config/xdg/cache/fontconfig/a1c95d6dfc9a7b34f44445cf81166004-le64.cache-
8

```

Performance en lecture (possible en écriture)

```

# sudo gluster volume top v0 read-perf bs 256 count 1 brick minipc1:/data/brick1/volume1 list-cnt
10
dugravot6@minipc1 ↵ 16:57:52
Brick: minipc1:/data/brick1/volume1
Throughput 36.57 MBps time 0.0000 secs
MBps Filename                               Time
=====
=====

```

```
2878 ...ipJBinding-732PU0OuPPzj/lib7-Zip-JBinding.so 2023-03-17 15:05:24 +0000.978307
2732 /JDOWNLOADER2/data/config/Core.jar          2023-03-17 15:04:56 +0000.519398
2528 ...2/data/config/libs/sevenzzipbindingLinux.jar 2023-03-17 15:05:24 +0000.367497
2441 /JDOWNLOADER2/data/config/tmp/hosterCache    2023-03-17 15:05:13 +0000.976603
2399 /JDOWNLOADER2/data/config/JDownloader.jar    2023-03-17 15:04:53 +0000.983716
2351 ...e815af0366dca31c28ab149bd8ed75c/backdrop.jpg 2023-03-17 15:06:58 +0000.85402
2234 .../1/10f6ec15-e9be-b988-b6d9-00dcc1ef3674.webp 2023-03-17 15:03:39 +0000.352235
2053 .../9/91ed9e05-232e-9cf5-ef55-2babb3281509.webp 2023-03-17 15:03:36 +0000.184495
1947 ...NLOADER2/data/config/libs/bcprov-jdk15on.jar 2023-03-17 15:38:36 +0000.239210
1942 .../1bf37a0f85b7c9fed7ce54b4952dcb31/poster.jpg 2023-03-17 15:06:42 +0000.912953
```

Informations de profile

Activer le profiling

```
sudo gluster volume profile v0 start
```

Visualiser les résultats

```
sudo gluster volume profile v0
info
  1m 36s dugravot6@minipc1 16:16:09
Brick: minipc1:/data/brick1/volume1
-----
Cumulative Stats:
  Block Size:      1b+      2b+      4b+
No. of Reads:      0         1         0
No. of Writes:     74        10        185

  Block Size:      8b+      16b+     32b+
No. of Reads:      5         2         1
No. of Writes:    1414     1957     298

  Block Size:     64b+     128b+    256b+
No. of Reads:     34         97        16
No. of Writes:    415        847       970

  Block Size:    512b+    1024b+   2048b+
```

| | | | |
|----------------|----------|----------|-----------|
| No. of Reads: | 1361 | 21 | 58 |
| No. of Writes: | 2518 | 1495 | 1862 |
| Block Size: | 4096b+ | 8192b+ | 16384b+ |
| No. of Reads: | 45583 | 20217 | 6635 |
| No. of Writes: | 11409 | 3159 | 4280 |
| Block Size: | 32768b+ | 65536b+ | 131072b+ |
| No. of Reads: | 1196 | 1765 | 2063 |
| No. of Writes: | 2065 | 2354 | 11300 |
| Block Size: | 262144b+ | 524288b+ | 1048576b+ |
| No. of Reads: | 1 | 3 | 106 |
| No. of Writes: | 0 | 0 | 0 |

| %-latency | Avg-latency | Min-Latency | Max-Latency | No. of calls | Fop |
|-----------|-------------|-------------|-------------|--------------|------------|
| ----- | ----- | ----- | ----- | ----- | ---- |
| 0.00 | 0.00 us | 0.00 us | 0.00 us | 141 | FORGET |
| 0.00 | 0.00 us | 0.00 us | 0.00 us | 15862 | RELEASE |
| 0.00 | 0.00 us | 0.00 us | 0.00 us | 38985 | RELEASEDIR |
| 0.00 | 33.90 us | 33.90 us | 33.90 us | 1 | FSYNCDIR |
| 0.00 | 134.57 us | 134.57 us | 134.57 us | 1 | FALLOCATE |
| 0.01 | 153.39 us | 123.50 us | 172.33 us | 5 | RMDIR |
| 0.01 | 149.02 us | 25.24 us | 280.28 us | 8 | READDIR |
| 0.02 | 256.76 us | 204.28 us | 329.66 us | 6 | MKDIR |
| 0.02 | 127.72 us | 63.05 us | 220.73 us | 15 | TRUNCATE |
| 0.02 | 153.44 us | 101.80 us | 278.24 us | 15 | RENAME |
| 0.03 | 42.87 us | 25.44 us | 103.08 us | 60 | READLINK |
| 0.04 | 135.90 us | 67.24 us | 296.09 us | 30 | XATTROP |
| 0.04 | 81.48 us | 15.06 us | 216.84 us | 51 | GETXATTR |
| 0.07 | 1465.94 us | 128.16 us | 2210.86 us | 5 | LINK |
| 0.10 | 84.19 us | 38.87 us | 253.69 us | 124 | OPEN |
| 0.15 | 37.55 us | 11.16 us | 299.45 us | 400 | FLUSH |
| 0.17 | 162.50 us | 92.04 us | 858.68 us | 103 | UNLINK |
| 0.26 | 48.99 us | 15.22 us | 2688.13 us | 526 | ENTRYLK |
| 0.26 | 236.51 us | 156.67 us | 573.31 us | 109 | CREATE |
| 0.26 | 90.69 us | 32.79 us | 229.81 us | 291 | STAT |
| 0.37 | 189.38 us | 86.62 us | 467.67 us | 196 | FTRUNCATE |
| 0.60 | 66.45 us | 19.45 us | 161.94 us | 899 | STATFS |
| 0.93 | 70.56 us | 15.45 us | 1843.70 us | 1321 | FINODELK |

| | | | | | |
|-------|------------|-----------|-------------|-------|----------|
| 2.00 | 152.13 us | 53.12 us | 5272.62 us | 1321 | FXATTROP |
| 2.09 | 76.37 us | 27.49 us | 1195.45 us | 2741 | FSTAT |
| 2.40 | 69.62 us | 15.50 us | 367.28 us | 3465 | LK |
| 4.51 | 53.58 us | 13.81 us | 3403.97 us | 8451 | READ |
| 4.75 | 52.41 us | 1.70 us | 4025.41 us | 9090 | OPENDIR |
| 4.80 | 143.98 us | 35.47 us | 5199.62 us | 3347 | WRITE |
| 4.81 | 57.25 us | 17.02 us | 3235.78 us | 8432 | INODELK |
| 5.06 | 120.90 us | 53.51 us | 4871.59 us | 4201 | SETATTR |
| 18.01 | 141.41 us | 22.43 us | 3800.04 us | 12778 | LOOKUP |
| 23.92 | 128.27 us | 16.64 us | 2681.28 us | 18711 | REaddirP |
| 24.30 | 2518.68 us | 142.53 us | 18229.04 us | 968 | FSYNC |

Duration: 9943 seconds

Data Read: 1074532509 bytes

Data Written: 1979205900 bytes

Stopper le profiling

```
sudo gluster volume profile v0 stop
```

Revision #10

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Updated 30 June 2023 12:52:01 by Stephane DUGRAVOT