DS Lab9 - Fault Tolerance

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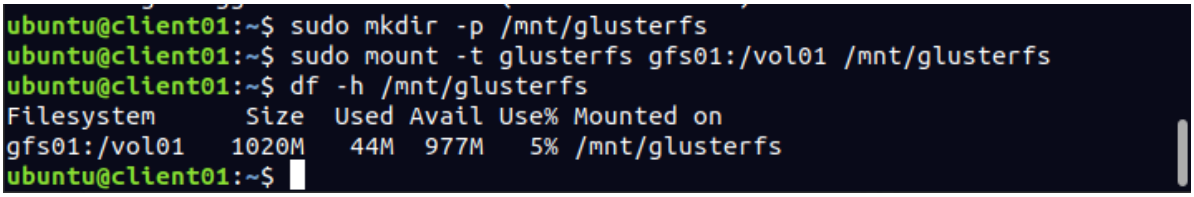
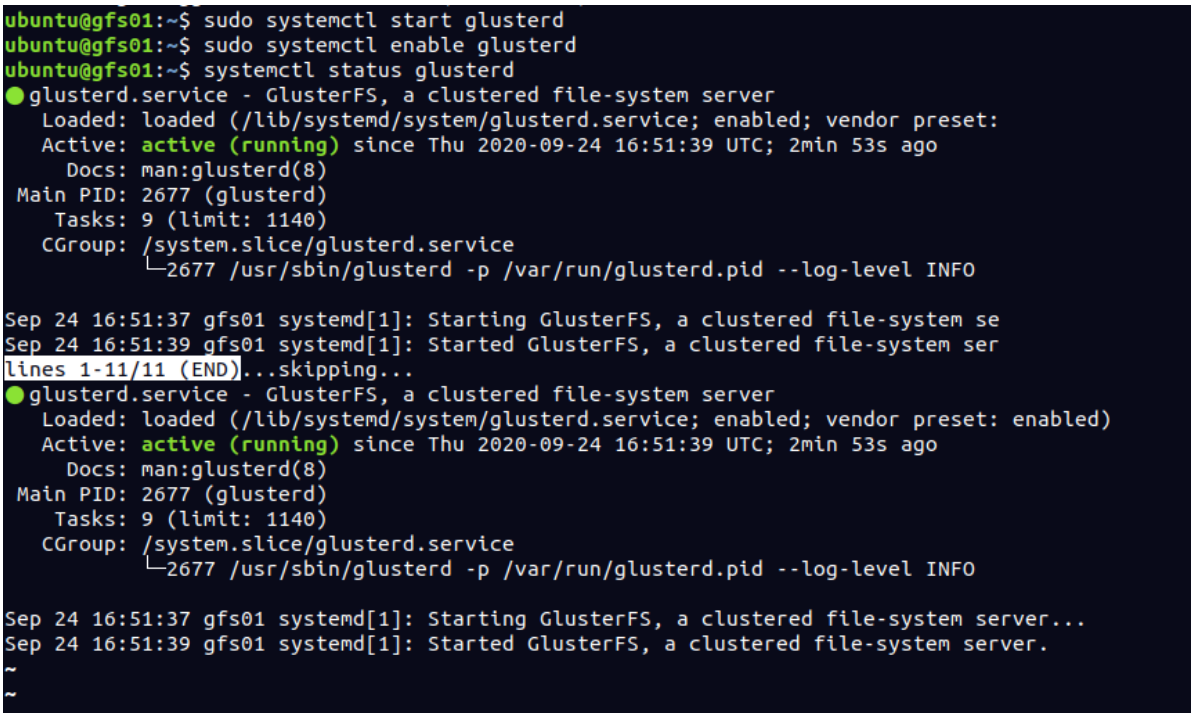
Course: SE-01

Extra screenshots





Required screenshots

```
ubuntu@gfs01:~$ sudo gluster volume start vol01
volume start: vol01: success
ubuntu@gfs01:~$ sudo gluster volume info vol01

Volume Name: vol01
Type: Replicate
Volume ID: 548e12fd-ccb6-4caf-a834-bc5386d416d3
Status: Started
Snapshot Count: 0
Number of Bricks: 1 x 2 = 2
Transport-type: tcp
Bricks:
Brick1: gfs01:/data/brick1/vol01
Brick2: gfs02:/data/brick1/vol01
Options Reconfigured:
transport.address-family: inet
storage.fips-mode-rchecksum: on
nfs.disable: on
performance.client-io-threads: off
```

- output of the GlusterFS' directory content on **client** server after creating the five files

```
ubuntu@client01:~$ cd /mnt/glusterfs
ubuntu@client01:/mnt/glusterfs$ touch file{01,02,03,04,05}
ubuntu@client01:/mnt/glusterfs$ ls
file01  file02  file03  file04  file05
ubuntu@client01:/mnt/glusterfs$
```

- output of the GlusterFS' directory content on **gfs02** server after creating the five files

```
ubuntu@gfs02:~$ sudo mkdir -p /data/brick1/vol01
ubuntu@gfs02:~$ ls /data/brick1/vol01/
file01  file02  file03  file04  file05
```

- output of the GlusterFS' directory content on **gfs01** server after creating the five files

```
ubuntu@gfs01:~$ ls /data/brick1/vol01/
file01  file02  file03  file04  file05
ubuntu@gfs01:~$
```

- output of the GlusterFS' directory content on **client** server after deleting `file05` and creating `dir1`

```
ubuntu@client01:/mnt/glusterfs$ ls
dir1  file01  file02  file03  file04
ubuntu@client01:/mnt/glusterfs$
ubuntu@client01:/mnt/glusterfs$
```

- output of the GlusterFS' directory content on **gfs02** server after stopping and starting shows deleted `file05` and created `dir1`

```
Last login: Thu Sep 24 15:14:53 2020 from 188.130.155.151
ubuntu@gfs02:~$ ls /data/brick1/vol01/
dir1  file01  file02  file03  file04
ubuntu@gfs02:~$
```

- output of the GlusterFS' directory content on **gfs01** server after deleting `file05` and creating `dir1`

```
ubuntu@gfs01:~$
ubuntu@gfs01:~$ ls /data/brick1/vol01/
dir1  file01  file02  file03  file04
ubuntu@gfs01:~$
```

- output of the `sudo gluster volume info vol01` command after adding the new **gfs03** server

```
ubuntu@gfs01:~$ sudo gluster volume add-brick vol01 replica 3 gfs03:/data/bric
k1/vol01
volume add-brick: success
ubuntu@gfs01:~$ sudo gluster volume info vol01

Volume Name: vol01
Type: Replicate
Volume ID: 548e12fd-ccb6-4caf-a834-bc5386d416d3
Status: Started
Snapshot Count: 0
Number of Bricks: 1 x 3 = 3
Transport-type: tcp
Bricks:
Brick1: gfs01:/data/brick1/vol01
Brick2: gfs02:/data/brick1/vol01
Brick3: gfs03:/data/brick1/vol01
Options Reconfigured:
transport.address-family: inet
storage.fips-mode-rchecksum: on
nfs.disable: on
performance.client-io-threads: off
ubuntu@gfs01:~$
```