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Gluster 3.4: Brick Restoration - Replace Crashed Server

From GlusterDocumentation

This procedure is for replacing a failed server, IF your newly installed server has the same hostname as the failed one:

(If your new server will have a different hostname, see this article instead.)

For purposes of this example, the server that crashed will be *server3* and the other servers will be *server1* and *server2*

- On both *server1* and *server2*, make sure hostname *server3* resolves to the correct IP address of the new replacement server.
- On either *server1* or *server2*, do

```
grep server3 /var/lib/glusterd/peers/*
```

This will return a uuid followed by ":hostname1=server3"

- On *server3*, make sure *glusterd* is stopped, then do

```
echo UUID={uuid from previous step}>/var/lib/glusterd/glusterd.info
```

- On *server3*:

- make sure that all brick directories are created/mounted
- start glusterd
- peer probe one of the existing servers
- restart glusterd, check that full peer list has been populated using

```
gluster peer status
```

- (if peers are missing, probe them explicitly, then restart glusterd again)
- check that full volume configuration has been populated using

```
gluster volume info
```

- if volume configuration is missing, do

```
gluster volume sync server1 all
```

- add the volume id(s) to the new brick(s) (do this for each volume/brick on this server)

```
vol=myvol  
brick=/mnt/myvol/brick1  
setfattr -n trusted.glusterfs.volume-id \  
-v 0x$(grep volume-id /var/lib/glusterd/vols/$vol/info \  
| cut -d= -f2 | sed 's/-//g') $brick
```

- restart glusterd

This will restore the configuration for this server.

If this is a replica brick, restore the data with

```
gluster volume heal $vol full
```

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This page was last modified on 16 August 2013, at 14:55. This page has been accessed once.

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