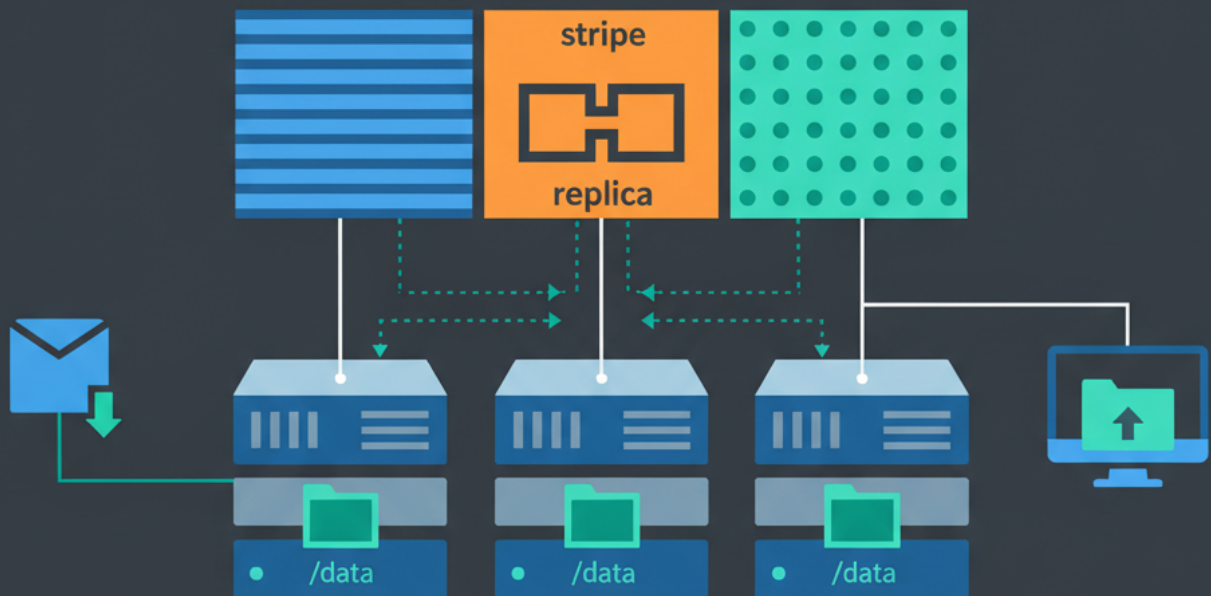


Glusterfs rpm





1. 下载 : <http://download.gluster.org/pub/gluster/glusterfs/3.3/3.3.1/CentOS/>

2. 安装

```
$> yum install -y fuse
$> rpm -ivh glusterfs-3.3.1-1.el5.i386.rpm
$> rpm -ivh glusterfs-fuse-3.3.1-1.el5.i386.rpm
$> rpm -ivh glusterfs-devel-3.3.1-1.el5.i386.rpm
$> rpm -ivh glusterfs-server-3.3.1-1.el5.i386.rpm
```

3. gluster 启动

```
/etc/rc.d/init.d/glusterd start
chkconfig glusterd on
\\* 重启
/etc/glusterfs/, /var/lib/glusterd/
```

4. 验证 fuse 是否安装成功

```
modprobe fuse
echo "modprobe fuse" >> /etc/rc.local
dmesg | grep -i fuse
```

fuse init (API version 7.10) <-- 成功 安装 fuse 成功 验证成功 .

5. Storage Pool 创建

1. 1. Management 节点 配置 网络 (配置 网络 节点)

```
gluster peer probe 节点IP
ef) gluster peer probe 192.168.150.19
```

6. Pool 创建

```
[root@localhost ~]# gluster peer status
Number of Peers: 1
Hostname: 192.168.150.19
Uuid: 0bb2e93b-1ab1-4420-91c0-e5bcf203586b
State: Peer in Cluster (Connected)
```

7. Storage pool 创建

```
gluster peer detach 192.168.150.19
\\ef) gluster peer detach 192.168.150.19
```

8. Volume 创建

1. Volume 创建 `Distributed(192.168.150.18, 192.168.150.19)`
 - 创建 `Brick 192.168.150.18:/data` 和 `Brick 192.168.150.19:/data`
 - `Distributed 192.168.150.18, 192.168.150.19` 创建 `Brick 192.168.150.18:/data` 和 `Brick 192.168.150.19:/data`。
2. `replicated(192.168.150.18, replication 2 192.168.150.18, 192.168.150.19)`
 - 创建 `Brick 192.168.150.18:/data` 和 `Brick 192.168.150.19:/data`。
3. `stripe(192.168.150.18)` 创建 `Brick 192.168.150.18:/data`
 1. 创建 `Brick 192.168.150.18:/data`
 2. `Stripe 192.168.150.18` 创建 `Brick 192.168.150.18:/data`，创建 `Brick 192.168.150.19:/data`

9. volume 创建 (Distributed 创建)

```
gluster volume create data
vmlnx001:/data vmlnx002:/data vmlnx003:/data vmlnx004:/data
\\ef) gluster volume create data 192.168.150.18:/data 192.168.150.19:/data
\\\\gluster> volume status data
Status of volume: data
Gluster process                                Port      Online   Pid
\\-----
\\Brick 192.168.150.18:/data                    24011     Y        3245
Brick 192.168.150.19:/data                    24011     Y        2481
NFS Server on localhost                       38467     Y        3251
```

```

NFS Server on 192.168.150.19          38467    Y          2487

\\gluster> volume info data

Volume Name: data
Type: Distribute
Volume ID: 556d6065-f888-4198-8782-65bc03979a0b
Status: Started
Number of Bricks: 3
Transport-type: tcp
Bricks:
Brick1: 192.168.150.18:/data
Brick2: 192.168.150.19:/data
Brick3: 192.168.150.16:/data

```

10. volume create (Replicate)

```

gluster> volume create data replica 2 192.168.150.18:/data 192.168.150.19:/data
\\gluster> volume info data
gluster> volume info all
Volume Name: data
Type: Replicate
Volume ID: c2ecd1b8-708e-47d4-8f15-adcd1b081987
Status: Started
Number of Bricks: 1 x 2 = 2
Transport-type: tcp
Bricks:
Brick1: 192.168.150.19:/data
Brick2: 192.168.150.18:/data

```

11. volume create (stripe)

```

gluster volume create data stripe 2 transport tcp 192.168.150.18:/data 192.168.150.19:/data

```

12. volume create (volume create , volume create , volume create)

ef) gluster volume create data replica 3 192.168.150.18:/data 192.168.150.19:/data 192.168.150.16:/data

\\data or a prefix of it is already part of a volume

- 在 /data 目录下，创建名为 .glusterfs 的目录。

```
root@localhost data]# ls -al
total 44
drwxr-xr-x  4 root root  4096 12月 6 16:00 .
drwxr-xr-x 24 root root  4096 12月 6 16:01 ..
drw-----  7 root root  4096 12月 6 15:17 .glusterfs
drwx-----  2 root root 16384 12月 5 13:48 lost+found
```

使用 setfattr 命令设置 trusted.glusterfs.volume-id 和 trusted.gfid 属性。

```
setfattr -x trusted.glusterfs.volume-id /data/
setfattr -x trusted.gfid /data/
rm -rf .glusterfs
```

13. 启动 GlusterFS 卷

```
gluster> volume start data
```

14. 设置 GlusterFS 卷的权限

```
gluster volume set <volume_name> auth.allow <IP地址>
ef) gluster> volume set data auth.allow 192.168.150.*
```

15. 停止并删除 GlusterFS 卷

```
gluster volume stop <volume_name>
gluster volume delete <volume_name>
\\ef)
gluster volume stop data
gluster volume delete data
```

16. 创建新的 GlusterFS 卷

```
mount -t glusterfs <server_name>:<volume_name> <mount point>
mount -t glusterfs 192.168.150.18:/data /test/

\\[root@localhost ]# df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/sda2	4.9G	1.5G	3.2G	31%	/
/dev/sda5	9.6G	151M	9.0G	2%	/data
/dev/sda1	99M	12M	83M	13%	/boot
tmpfs	1014M	0	1014M	0%	/dev/shm
glusterfs#192.168.150.18:/data					
	9.6G	151M	9.0G	2%	/test

17. ☐ ☐ ☐ ☐ ☐ ☐ /etc/fstab ☐ ☐ ☐

```
192.168.150.18:/data      /mnt                      glusterfs defaults,_netdev 0 0
```

1*. $\square \square$, netfs $\square\square\square$ $\square\square$ $\square\square\square\square$ $\square\square$ $\square$ $\square\square\square$ $\square$.

18. Volume

```

[[ [[[[ [[[[ (replicate[[ [[ [[[[ Brick[[ [[ [[ [[[[ [[.))
\\gluster volume add-brick dist_vol 172.27.0.9:/data
ef) gluster volume add-brick data 192.168.150.16:/data
Brick[[ [[ volume [[
\\[[ [[
gluster> volume status data
Status of volume: data

Gluster process                                     Port      Online    Pid
-----
Brick 192.168.150.18:/data                          24011     Y         3245
Brick 192.168.150.19:/data                          24011     Y         2481
NFS Server on localhost                             38467     Y         3251
NFS Server on 192.168.150.16                        38467     Y         4216
NFS Server on 192.168.150.19                        38467     Y         2487
\\[[ [[
gluster> volume status data
Status of volume: data

Gluster process                                     Port      Online    Pid
-----
Brick 192.168.150.18:/data                          24011     Y         3245

```

Brick 192.168.150.19:/data	24011	Y	2481
Brick 192.168.150.16:/data	24011	Y	4384
NFS Server on localhost	38467	Y	3268
NFS Server on 192.168.150.16	38467	Y	4390
NFS Server on 192.168.150.19	38467	Y	2501

19.

```
gluster> volume set data performance.write-behind-window-size 1024MB
gluster> volume set data performance.cache-size 512MB
```

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