

Glusterfs rpm ??

Centos???? GlusterFS?? ? ??

1. 地址 : <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 配置 目录

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

4. 检查 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 安装 成功 .

5. Storage Pool 配置

1. 1. Management 配置 目录 配置 目录 (配置 目录 配置 目录)

```
gluster peer probe 192.168.150.19
ef) gluster peer probe 192.168.150.19
```

6. Pool 配置

```
[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 192.168.150.18
\\ef) gluster peer detach 192.168.150.19
```

8. Volume 创建

1. Volume 创建 Distributed(分布式存储, 副本数 1)

- 创建分布式存储 Brick 192.168.150.18:/data 192.168.150.19:/data
- Distributed 副本数 192.168.150.18:/data 192.168.150.19:/data , 副本数 192.168.150.18:/data 192.168.150.19:/data

2. replicated(副本数, replication 副本数 副本数)

- 创建副本数 192.168.150.18:/data 192.168.150.19:/data , 副本数 192.168.150.18:/data 192.168.150.19:/data

3. stripe(副本数) 副本数

1. 副本数 192.168.150.18:/data 192.168.150.19:/data
2. Stripe 副本数 192.168.150.18:/data 192.168.150.19:/data , 副本数 192.168.150.18:/data 192.168.150.19:/data

9. volume 创建 (Distributed 副本数)

```
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 `data` (Replicate `2`)

```

gluster> volume create data replica 2 192.168.150.18:/data 192.168.150.19:/data
\\glusterfs volume 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 `data` (stripe `2`)

```

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

```

12. volume `data` `data` `data` volume `data` `data` , `data` `data` `data`

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

- `data` `data` , `data` `data` `data` , `glusterfs` `data` `data` .

```

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

```

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

```
gluster> volume start data
```

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

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

```
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

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

18. Volume

```

    00 0000 0000 (replicate0000 00 0000 Brick00 00 0 0000 00.)

```

```
\\gluster volume add-brick dist_vol 172.27.0.9:/data
```

```
ef) gluster volume add-brick data 192.168.150.16:/data
```

Brick volume

$$\backslash \backslash \square \square \square)$$

```
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

$$\backslash \backslash \square \square \square)$$

```
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
```