

```
1 安装git: yum install git
2 解决: Failed to execute "git ls-remote --tags --heads
3 安装: yum update -y nss curl libcurl
4 下载代码: git clone https://github.com/gluster/glusterfs.git
```

centos7编译安装 debug版本gluster: <https://docs.gluster.org/en/latest/Developer-guide/Building-GlusterFS/>

```
1 //安装依赖包:
2 yum install autoconf automake bison cmockery2-devel dos2unix flex \
3 fuse-devel glib2-devel libacl-devel libaio-devel libattr-devel \
4 libcurl-devel libibverbs-devel librdmacm-devel libtirpc-devel \
5 libtool libxml2-devel lvm2-devel make openssl-devel pkgconfig \
6 pyliblzma python-devel python-eventlet python-netifaces \
7 python-paste-deploy python-simplejson python-sphinx python-webob \
8 pyxattr readline-devel rpm-build sqlite-devel systemtap-sdt-devel \
9 tar userspace-rcu-devel
10
11 ./autogen.sh
12
13 //For CentOS 7, use:
14 ./configure --without-libtirpc --enable-debug
15
16 make
17
18 //make rpm
19 cd extras/LinuxRPM
20 make gluster rpms
21
22 //安装, 如果出错在加上依赖的rpm包
23 yum install -y glusterfs-libs-7.7-0.0.el7.x86_64.rpm \
24 glusterfs-7.7-0.0.el7.x86_64.rpm \
25 glusterfs-debuginfo-7.7-0.0.el7.x86_64.rpm \
26 glusterfs-client-xlators-7.7-0.0.el7.x86_64.rpm \
27 glusterfs-fuse-7.7-0.0.el7.x86_64.rpm \
28 glusterfs-api-7.7-0.0.el7.x86_64.rpm \
29 glusterfs-cli-7.7-0.0.el7.x86_64.rpm \
30 glusterfs-server-7.7-0.0.el7.x86_64.rpm \
31 python2-gluster-7.7-0.0.el7.x86_64.rpm \
32 glusterfs-extra-xlators-7.7-0.0.el7.x86_64.rpm \
33 glusterfs-devel-7.7-0.0.el7.x86_64.rpm \
34 glusterfs-api-devel-7.7-0.0.el7.x86_64.rpm
```

```
35
36 //在两个节点ks0 ks1 启动gluster
37 systemctl daemon-reload && systemctl start glusterd.service && systemctl en
able glusterd.service
38 // vim /etc/hosts
39 192.168.122.138 ks0
40 192.168.122.141 ks1
41
42 //格式磁盘在ks0上，挂载磁盘，在ks1执行同样操作
43 mkfs.ext4 /dev/sdb /dev/sdc /dev/sdd /dev/sde
44 mount /dev/sdb /data_ks0/sdb
45 mount /dev/sdc /data_ks0/sdc
46 mount /dev/sdd /data_ks0/sdd
47 mount /dev/sde /data_ks0/sde
48
49 //vim /etc/fstab
50 /dev/sdb /data_ks0/sdb ext4 defaults 0 0
51 /dev/sdc /data_ks0/sdc ext4 defaults 0 0
52 /dev/sdd /data_ks0/sdd ext4 defaults 0 0
53 /dev/sde /data_ks0/sde ext4 defaults 0 0
54
55 //在ks0上加入节点ks1
56 gluster peer probe ks1
57
58 如果失败：
59 [root@ks0 ~]# gluster peer probe 192.168.122.144
60 peer probe: failed: Peer uuid (host 192.168.122.144) is same as local uuid
61
62 remove /var/lib/glusterd/glusterd.info
63 service glusterd restart
64
65
66 [root@ks0 gluster_rpm]# gluster peer status
67 Number of Peers: 1
68
69 Hostname: ks1
70 Uuid: 58db15ed-e0e3-41c9-af27-ccedda3897a4
71 State: Peer in Cluster (Connected)
72
73 //卸载rpm
74 yum erase -y `yum list installed | grep gluster | awk '{print $1}'`
```

卷操作:

<https://docs.gluster.org/en/latest/Administrator%20Guide/Setting%20Up%20Volumes/>

```
1 //创建, 挂载, 删除 纠删卷 :
2 gluster volume create test_volume disperse 3 redundancy 1 ks0:/data_ks0/sdb
  ks0:/data_ks0/sdc ks1:/data_ks1/sdb force
3 gluster volume start test_volume
4
5 [root@ks0 gluster_rpm]# gluster volume info test_volume
6 /*
7 Volume Name: test_volume
8 Type: Disperse
9 Volume ID: 4fe2e28a-2a53-45ff-8d51-5f185cfa4dbf
10 Status: Started
11 Snapshot Count: 0
12 Number of Bricks: 1 x (2 + 1) = 3
13 Transport-type: tcp
14 Bricks:
15 Brick1: ks0:/data_ks0/sdb
16 Brick2: ks0:/data_ks0/sdc
17 Brick3: ks1:/data_ks1/sdb
18 Options Reconfigured:
19 transport.address-family: inet
20 storage.fips-mode-rchecksum: on
21 nfs.disable: on
22 */
23
24 [root@ks0 gluster_rpm]# gluster volume status test_volume
25 /*
26 Status of volume: test_volume
27 Gluster process TCP Port RDMA Port Online Pid
28 -----
29 ---
29 Brick ks0:/data_ks0/sdb 49154 0 Y 41969
30 Brick ks0:/data_ks0/sdc 49155 0 Y 41990
31 Brick ks1:/data_ks1/sdb 49154 0 Y 74254
32 Self-heal Daemon on localhost N/A N/A Y 42011
33 Self-heal Daemon on ks1 N/A N/A Y 74276
34
35 Task Status of Volume test_volume
36 -----
37 ---
37 There are no active volume tasks
```

```
38 */
39
40 //挂载: 设置日志级别为trace
41 mount.glusterfs ks0:test_volume /mnt/test_volume log_level=trace
42
43 //卸载删除
44 umount /mnt/test_volume
45 gluster volume stop test_volume
46 gluster volume delete test_volume
```

修改日志: https://access.redhat.com/documentation/en-us/red_hat_gluster_storage/3.1/html/administration_guide/configuring_the_log_level

```
1 //for brick
2 gluster volume set test_volume diagnostics.brick-log-level TRACE
3
4 //for client
5 gluster volume set test_volume diagnostics.client-log-level TRACE
6
7 //for glusterd
8 // vim /etc/sysconfig/glusterd
9 ## Set custom log file and log level (below are defaults)
10 #LOG_FILE='/var/log/glusterfs/glusterd.log'
11 LOG_LEVEL='DEBUG'
12
13 systemctl restart glusterd.service
14
15 //mount日志 trace
16 mount.glusterfs ks0:test_volume /mnt/test_volume log_level=trace
```