# Percona XtraDB Cluster安装部署手册

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**一、环境准备：**

1.安装环境：

    2台linux服务器

    操作系统：CentOS release 6.5 (Final)

    IP地址：192.168.1.30（节点1）、192.168.1.31（节点2）、192.168.1.36（见证服务器）

2.如果不使用yum安装，则需要安装如下依赖包和软件包：

rpm -ivh mysql-libs-5.1.61-4.el6.x86\_64.rpm

rpm -ivh perl-DBD-MySQL-4.013-3.el6.x86\_64.rpm

rpm -Uvh zlib-1.2.3-29.el6.x86\_64.rpm zlib-devel-1.2.3-29.el6.x86\_64.rpm

rpm -Uvh openssl-1.0.1e-15.el6.x86\_64.rpm openssl-devel-1.0.1e-15.el6.x86\_64.rpm

rpm -ivh socat-1.7.2.1-1.el6.rf.x86\_64.rpm

rpm -ivh percona-xtrabackup-2.2.3-4982.el6.x86\_64.rpm

rpm -ivh Percona-XtraDB-Cluster-client-56-5.6.19-25.6.826.el6.x86\_64.rpm

rpm -ivh Percona-XtraDB-Cluster-galera-3-3.6-1.3190.rhel6.x86\_64.rpm

rpm -ivh Percona-XtraDB-Cluster-server-56-5.6.19-25.6.824.el6.x86\_64.rpm

3.关闭iptables和selinux

chkconfig iptables off

service iptables stop

vi /etc/selinux/config

SELINUX=disabled

**二、安装percona xtradb cluster（使用yum安装）**

4.安装（节点1和节点2均按此步骤安装）：

查看系统是否已经安装mysql

rpm -qa | grep -i mysql

 5.如果有请使用以下命令移除

rpm -ev mysql-libs-5.1.71-1.el6.x86\_64 –nodeps

6.安装percona软件存储库：

yum install https://www.percona.com/redir/downloads/percona-release/redhat/latest/percona-release-0.1-4.noarch.rpm

yum install epel-release

 7.使用yum安装percona xtradb cluster

yum install Percona-XtraDB-Cluster-56.x86\_64

8.安装percona工具包

yum install percona-toolkit.noarch

9.创建数据目录和日志目录：

cd /data/emc5600

mkdir mysqldata

mkdir logs

cd logs

mkdir mysql

10.把数据目录和日志目录的所有者更改为用户mysql，并赋予相应的权限：

chown mysql:mysql /data/logs -R

chown mysql:mysql /data/emc5600/mysqldata -R

chmod -c 755 /data/logs -R

chmod -c 755 /data/emc5600/mysqldata -R

**三．my.cnf配置**

节点1（192.168.1.30）的my.cnf配置如下：

[mysqld]

datadir = /data/emc5600/mysqldata

binlog\_format = ROW

wsrep\_cluster\_name = Yooli\_Core\_Cluster

wsrep\_cluster\_address = gcomm://192.168.1.30,192.168.1.31

wsrep\_node\_address = 192.168.1.30

wsrep\_provider = /usr/lib64/libgalera\_smm.so

wsrep\_sst\_method = xtrabackup-v2

wsrep\_sst\_auth = sstuser:sstuser

innodb\_autoinc\_lock\_mode = 2

wsrep\_slave\_threads=16

节点2（192.168.1.31）的my.cnf配置如下：

[mysqld]

datadir = /data/emc5600/mysqldata

binlog\_format = ROW

wsrep\_cluster\_name = Yooli\_Core\_Cluster

wsrep\_cluster\_address = gcomm://192.168.1.30,192.168.1.31

wsrep\_node\_address = 192.168.1.31

wsrep\_provider = /usr/lib64/libgalera\_smm.so

wsrep\_sst\_method = xtrabackup-v2

wsrep\_sst\_auth = sstuser:sstuser

innodb\_autoinc\_lock\_mode = 2

wsrep\_slave\_threads=16

**四、启动服务**

11.初始化数据库

mysql\_install\_db --user=mysql --basedir=/usr --datadir=/data/emc5600/mysqldata

12.启动集群的第一个节点node1：

service mysql bootstrap-pxc

13.进入mysql创建sst账号：

[root@DB30 home]# mysql -uroot -p

Enter password:

>CREATE USER 'sstuser'@'localhost' IDENTIFIED BY 'sstuser';

>GRANT RELOAD, LOCK TABLES, REPLICATION CLIENT,PROCESS ON \*.\* TO 'sstuser'@'localhost';

>FLUSH PRIVILEGES;

14.Node2节点无需初始化数据库，数据会从第一个节点上拉过来

service mysql start

**五、配置见证服务器**

15.在192.168.1.36上安装如下RPM包

yum install Percona-XtraDB-Cluster-garbd-3.x86\_64

16.安装完成之后修改配置文件

vi /etc/sysconfig/garb

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# A space-separated list of node addresses (address[:port]) in the cluster

GALERA\_NODES="192.168.1.34:4567 192.168.1.35:4567"

# Galera cluster name, should be the same as on the rest of the nodes.

GALERA\_GROUP="Yooli\_ELITE\_Cluster"

# Optional Galera internal options string (e.g. SSL settings)

# see http://www.codership.com/wiki/doku.php?id=galera\_parameters

# GALERA\_OPTIONS=""

# Log file for garbd. Optional, by default logs to syslog

# Deprecated for CentOS7, use journalctl to query the log for garbd

LOG\_FILE="/tmp/garbd.log"

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17.修改linux用户nobody

vi /etc/passwd

将nobody:x:99:99:Nobody:/:/sbin/nologin 改为nobody:x:99:99:Nobody:/:/bin/bash

18.启动garb服务

service garb start