centos7.4 安装 pxc5.7(mysql 版本为 5.7.21) 使用 xtrabackup-v2 数据同步

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我们准备了3太服务器：

192.168.31.151(pxc1)，192.168.31.152(pxc2)，192.168.31.153(pxc3)

在3台机器上分别操作：

```
yum install http://www.percona.com/downloads/percona-release/redhat/0.1-4/percona-release-0.1-4.noarch.rpm
yum install Percona-XtraDB-Cluster-57 -y
```

```
已安装:
  Percona-XtraDB-Cluster-57.x86_64 0:5.7.21-29.26.1.el7                         Percona-XtraDB-Cluster-shared-57.x86_64 0:5.7.21-29.26.1.el7
  Percona-XtraDB-Cluster-shared-compat-57.x86_64 0:5.7.21-29.26.1.el7

作为依赖被安装:
  Percona-XtraDB-Cluster-client-57.x86_64 0:5.7.21-29.26.1.el7  Percona-XtraDB-Cluster-server-57.x86_64 0:5.7.21-29.26.1.el7  libev.x86_64 0:4.15-7.el7
  lsof.x86_64 0:4.87-4.el7                                      percona-xtrabackup-24.x86_64 0:2.4.10-1.el7
                perl-Compress-Raw-Bzip2.x86_64 0:2.061-3.el7
  perl-Compress-Raw-Zlib.x86_64 1:2.061-4.el7                   perl-DBD-MySQL.x86_64 0:4.023-5.el7                    perl-DBI.x86_64 0:1.627-4.el7
  perl-Digest.noarch 0:1.17-245.el7                             perl-Digest-MD5.x86_64 0:2.52-3.el7
                perl-IO-Compress.noarch 0:2.061-2.el7
  perl-Net-Daemon.noarch 0:0.48-5.el7                           perl-PlRPC.noarch 0:0.2020-14.el7
                qpress.x86_64 0:11-1.el7
  socat.x86_64 0:1.7.3.2-2.el7

替代:
  mariadb-libs.x86_64 1:5.5.56-2.el7
```

启动服务

```
service mysql start
```

登录mysql密码

登录mysql密码在/var/log/mysqld.log中

```
grep 'temporary password' /var/log/mysqld.log
mysql -uroot -p
```

修改添加数据库root、同步账号

```
ALTER USER 'root'@'localhost' IDENTIFIED BY '123456';
GRANT ALL PRIVILEGES ON *.* TO 'root'@'%' IDENTIFIED BY '123456';
GRANT ALL PRIVILEGES ON *.* TO 'pxc_user'@'%' IDENTIFIED BY '123456';
GRANT ALL PRIVILEGES ON *.* TO 'pxc_user'@'localhost' IDENTIFIED BY '123456';
```

停止mysql，准备启动pxc集群

systemctl stop mysql

替换修改配置文件/etc/my.cnf

- 数据库1(pxc1)-作为集群第一个启动的节点

```
[client]
default-character-set = utf8mb4
[mysqld]
skip_ssl
sql_mode ='STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISI
N_BY_ZERO,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION'
slow_query_log=ON
slow_query_log_file=/var/lib/mysql/mysql-slow.log
general_log=ON
general_log_file=/var/lib/mysql/log-mysql.log
long_query_time = 1
explicit_defaults_for_timestamp = 1
innodb_buffer_pool_instances = 8
innodb_buffer_pool_dump_at_shutdown = 1
log_timestamps=system
# Path to Galera library
wsrep_provider=/usr/lib64/galera3/libgalera_smm.so

character-set-server = utf8mb4
collation-server = utf8mb4_unicode_ci

# Cluster connection URL contains IPs of nodes
#If no IP is found, this implies that a new cluster needs to be created,
#in order to do that you need to bootstrap this node
wsrep_cluster_address=gcomm://

# In order for Galera to work correctly binlog format should be ROW
binlog_format=ROW
max_connections=10000
# MyISAM storage engine has only experimental support
default_storage_engine=InnoDB

# Slave thread to use
wsrep_slave_threads= 8

wsrep_log_conflicts

# This changes how InnoDB autoincrement locks are managed and is a requirement for Galer

innodb_autoinc_lock_mode=2

# Node IP address
wsrep_node_address=192.168.31.151
# Cluster name
```

```
wsrep_cluster_name=pxc-cluster

#If wsrep_node_name is not specified,  then system hostname will be used
wsrep_node_name=pxc1

#pxc_strict_mode allowed values: DISABLED,PERMISSIVE,ENFORCING,MASTER
pxc_strict_mode=DISABLED

# SST method
wsrep_sst_method=xtrabackup-v2

#Authentication for SST method
wsrep_sst_auth="pxc_user:123456"
```

- 数据库2(pxc2)

```
[client]
default-character-set = utf8mb4
[mysqld]
skip_ssl
sql_mode ='STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISI
N_BY_ZERO,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION'
slow_query_log=ON
slow_query_log_file=/var/lib/mysql/mysql-slow.log
general_log=ON
general_log_file=/var/lib/mysql/log-mysql.log
long_query_time = 1
explicit_defaults_for_timestamp = 1
innodb_buffer_pool_instances = 8
innodb_buffer_pool_dump_at_shutdown = 1
log_timestamps=system
# Path to Galera library
wsrep_provider=/usr/lib64/galera3/libgalera_smm.so

character-set-server = utf8mb4
collation-server = utf8mb4_unicode_ci

# Cluster connection URL contains IPs of nodes
#If no IP is found, this implies that a new cluster needs to be created,
#in order to do that you need to bootstrap this node
wsrep_cluster_address=gcomm://192.168.31.151,192.168.31.152,192.168.31.153

# In order for Galera to work correctly binlog format should be ROW
binlog_format=ROW
max_connections=10000
# MyISAM storage engine has only experimental support
default_storage_engine=InnoDB

# Slave thread to use
wsrep_slave_threads= 8

wsrep_log_conflicts

# This changes how InnoDB autoincrement locks are managed and is a requirement for Galer
```

```
innodb_autoinc_lock_mode=2

# Node IP address
wsrep_node_address=192.168.31.152
# Cluster name
wsrep_cluster_name=pxc-cluster

#If wsrep_node_name is not specified,  then system hostname will be used
wsrep_node_name=pxc2

#pxc_strict_mode allowed values: DISABLED,PERMISSIVE,ENFORCING,MASTER
pxc_strict_mode=DISABLED

# SST method
wsrep_sst_method=xtrabackup-v2

#Authentication for SST method
wsrep_sst_auth="pxc_user:123456"
```

- 数据库3(pxc3)

```
[client]
default-character-set = utf8mb4
[mysqld]
skip_ssl
sql_mode ='STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISI
N_BY_ZERO,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION'
slow_query_log=ON
slow_query_log_file=/var/lib/mysql/mysql-slow.log
general_log=ON
general_log_file=/var/lib/mysql/log-mysql.log
long_query_time = 1
explicit_defaults_for_timestamp = 1
innodb_buffer_pool_instances = 8
innodb_buffer_pool_dump_at_shutdown = 1
log_timestamps=system
# Path to Galera library
wsrep_provider=/usr/lib64/galera3/libgalera_smm.so

character-set-server = utf8mb4
collation-server = utf8mb4_unicode_ci

# Cluster connection URL contains IPs of nodes
#If no IP is found, this implies that a new cluster needs to be created,
#in order to do that you need to bootstrap this node
wsrep_cluster_address=gcomm://192.168.31.151,192.168.31.152,192.168.31.153

# In order for Galera to work correctly binlog format should be ROW
binlog_format=ROW
max_connections=10000
# MyISAM storage engine has only experimental support
default_storage_engine=InnoDB
```

```
# Slave thread to use
wsrep_slave_threads= 8

wsrep_log_conflicts

# This changes how InnoDB autoincrement locks are managed and is a requirement for Galer

innodb_autoinc_lock_mode=2

# Node IP address
wsrep_node_address=192.168.31.153
# Cluster name
wsrep_cluster_name=pxc-cluster

#If wsrep_node_name is not specified,  then system hostname will be used
wsrep_node_name=pxc3

#pxc_strict_mode allowed values: DISABLED,PERMISSIVE,ENFORCING,MASTER
pxc_strict_mode=DISABLED

# SST method
wsrep_sst_method=xtrabackup-v2

#Authentication for SST method
wsrep_sst_auth="pxc_user:123456"
```

启动pxc集群

在集群第一个节点上执行：

systemctl start mysql@bootstrap.service

在其他2个节点执行：

systemctl start mysql

第一节点启动关闭命令

systemctl start mysql@bootstrap.service

systemctl stop mysql@bootstrap.service

其他节点启动关闭命令

systemctl start mysql

systemctl stop mysql