**Cài đặt XtraDB-Backup & XtraDB-Cluster 5.7 trên Centos 8**

* 1. **Disable Selinux**

**Vi /etc/sysconfig/selinux**

**Reboot**

* 1. **Mount file ISO**

mount /dev/cdrom /mnt/

* 1. **Backup repo**

mkdir /tmp/repo/

mv /etc/yum.repos.d/\*.repo /tmp/

* 1. **Tao file repo local**

vi /etc/yum.repos.d/local.repo

#

[LocalRepo\_BaseOS]

name=LocalRepository\_BaseOS

baseurl=file:///mnt/BaseOS

enabled=1

gpgcheck=1

gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-centosofficial

[LocalRepo\_AppStream]

name=LocalRepository\_AppStream

baseurl=file:///mnt/AppStream

enabled=1

gpgcheck=1

gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-centosofficial

yum clean all

* 1. **Download Percona XtraBackup + Percona XtraDB-Cluster, cai dat Percona release-noarch**

**XtraBackup:** <https://www.percona.com/downloads/Percona-XtraBackup-2.4/Percona-XtraBackup-2.4.20/binary/redhat/8/x86_64/Percona-XtraBackup-2.4.20-rc8b4056-el8-x86_64-bundle.tar>

**XtraCluster:** <https://www.percona.com/downloads/Percona-XtraDB-Cluster-57/Percona-XtraDB-Cluster-5.7.31-31.45/binary/redhat/8/x86_64/Percona-XtraDB-Cluster-5.7.31-31.45-r565-el8-x86_64-bundle.tar>

**Percona release noarch:**

https://www.percona.com/downloads/percona-release/redhat/

rpm -ivh percona-release-latest.noarch.rpm

* 1. **Disable module mysql**

dnf module disable mysql

* 1. **Cai dat cac goi sau cho XtraBackup**

dnf install libev

dnf install perl-DBD-MySQL

* 1. **Cai dat XtraBackup**

rpm -ivh percona-xtrabackup-24-debuginfo-2.4.20-1.el8.x86\_64.rpm

rpm -ivh percona-xtrabackup-24-2.4.20-1.el8.x86\_64.rpm

* 1. **Cai dat cac goi sau cho XtraCluster**

dnf install python2

dnf install socat

dnf install qpress

rpm -ivh qpress-11-1.el8.x86\_64.rpm

* 1. **Cai dat XtraDB-Cluster**

rpm -ivh Percona-XtraDB-Cluster-client-57-5.7.31-31.45.1.el8.x86\_64.rpm

rpm -ivh Percona-XtraDB-Cluster-57-debuginfo-5.7.31-31.45.1.el8.x86\_64.rpm

rpm -ivh Percona-XtraDB-Cluster-shared-57-5.7.31-31.45.1.el8.x86\_64.rpm

rpm -ivh Percona-XtraDB-Cluster-server-57-5.7.31-31.45.1.el8.x86\_64.rpm

* 1. **Khoi dong MySQL**

systemctl start mysql

* 1. **Xem passwd tmp**

grep 'temporary password' /var/log/mysqld.log

mysql -u root -p

* 1. **Change password user root**

ALTER USER 'root'@'localhost' IDENTIFIED BY 'P@ssword123';

flush privileges;

exit

Note: Forget Password Root MySQL

mysqld\_safe --skip-grant-tables &

mysql>use mysql;

mysql>show tables;

update user set authentication\_string=password('123456') where user='root';

Flush privileges;

Exit;

mysqladmin -u root -p shutdown

* 1. **Tao rule open port firewalld cho cac node truoc khi cau hinh HA**

firewall-cmd --zone=public --permanent --add-port 3306/tcp

firewall-cmd --zone=public --permanent --add-port 4567/tcp

firewall-cmd --zone=public --permanent --add-port 4568/tcp

firewall-cmd --zone=public --permanent --add-port 4444/tcp

firewall-cmd --reload

* 1. **Cấu hình Cluster**

**Node 01: 192.168.254.102**

* **Tạo user sử dụng xác thực các node.**

CREATE USER 'test01'@'localhost' IDENTIFIED BY 'password';

GRANT ALL PRIVILEGES ON \* . \* TO 'test01'@'localhost';

FLUSH PRIVILEGES;

* **Stop MySQL**

**systemctl stop mysql**

* **Thêm các dòng sau vào file config:**

**vi /etc/my.cnf**

**[mysqld]**

**datadir=/var/lib/mysql**

**user=mysql**

**# Path to Galera library**

**wsrep\_provider=/usr/lib64/galera3/libgalera\_smm.so**

**# Cluster connection URL contains the IPs of node#1, node#2 and node#3vi**

**wsrep\_cluster\_address=gcomm://192.168.254.102,192.168.254.124,192.168.254.127**

**# In order for Galera to work correctly binlog format should be ROW**

**binlog\_format=ROW**

**# MyISAM storage engine has only experimental support**

**default\_storage\_engine=InnoDB**

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

**innodb\_autoinc\_lock\_mode=2**

**# Node #1 address**

**wsrep\_node\_address=192.168.254.127**

**# SST method**

**wsrep\_sst\_method=xtrabackup-v2**

**# Cluster name**

**wsrep\_cluster\_name=my\_centos\_cluster**

**# Authentication for SST method**

**wsrep\_sst\_auth="test01:password"**

* **Lưu cấu hình và khởi động bằng lệnh:** systemctl start [mysql@bootstrap.service](mailto:mysql@bootstrap.service)

**Kiểm tra cluster status bằng lệnh:** mysql> show status like 'wsrep%';

**Node 02: 192.168.254.124**

* **Tạo user sử dụng xác thực các node.**

CREATE USER 'test01'@'localhost' IDENTIFIED BY 'password';

GRANT ALL PRIVILEGES ON \* . \* TO 'test01'@'localhost';

FLUSH PRIVILEGES;

* **Stop MySQL**
* **Cấu hình tương tự dòng wsrep\_node\_address=192.168.254.124**
* **Lưu cấu hình và khởi động bằng lệnh:** systemctl start mysql

**Node 03: 192.168.254.124**

* **Tạo user sử dụng xác thực các node.**

CREATE USER 'test01'@'localhost' IDENTIFIED BY 'password';

GRANT ALL PRIVILEGES ON \* . \* TO 'test01'@'localhost';

FLUSH PRIVILEGES;

* **Stop MySQL**
* **Cấu hình tương tự dòng wsrep\_node\_address=192.168.254.124**
* **Lưu cấu hình và khởi động bằng lệnh:** systemctl start mysql