Mysql Installation

Follow -- https://docs.percona.com/percona-server/5.7/installation/yum\_repo.html

* sudo yum install https://repo.percona.com/yum/percona-release-latest.noarch.rpm
* sudo percona-release setup ps57
* yum list | grep 5.7.38-41.1
* yum install Percona-Server-server-57
* service mysql start
* service mysql status

**The following table lists the default locations for files:**

|  |  |
| --- | --- |
| mysqld server | /usr/bin |
| Configuration | /etc/my.cnf |
| Data directory | /var/lib/mysql |
| Logs | /var/log/mysqld.log |
|  |  |

Setup Initial Mysql

1. Get the temp password from mysql log and login into mysql → mysql -u root -p

2. Alter root password –

alter user ‘root’@’localhost’ identified by ‘Password@1234’;

3. Create a seperate user to communicate with mysql from external host --

create user ‘username’@’%’ identified by ‘[Password@1234](mailto:Password@1234)’;

4. Create a database that you want to work on --

create database <database-name>;

5. Grant priviledges to the user for this database --

grant all privileges on <database-name>.\* to ‘username’@’%’ with grant option;

6. Flush Privileges

flush privileges;

Mysql Backup --

Installation of Percona Xtrabackup

1. percona-release enable-only tools release (enable rpm for percona)

2. yum list | grep percona (check for the best backup tool based on your mysql)

3. yum install percona-xtrabackup-24 -y

Take Mysql Backup --

1. Create directory for the backup.

mkdir /data/backup

2. Take complete mysql backup

xtrabackup --backup --target-dir=/data/backup/base -u root -p

3. Over base we can take incremental backup

xtrabackup --backup –target-dir=/data/backup/inc1 --incremental-basedir=/data/backup/base -uroot -p

4. Take another incremental backup

xtrabackup --backup –target-dir=/data/backup/inc2 --incremental-basedir=/data/backup/inc1 -uroot -p

5. Now prepare the backup. Backup has 2 parts, committed changes in binlog and uncommited changes, for backup which has future backup existing, we take only commited change. But for last incremental backup, we take both. Use –apply-log-only used to skip uncommited chnages

6. Prepare base backup

xtrabackup --prepare --apply-log-only --target-dir=/data/backup/base

7. Prepare incremental backup

xtrabackup --prepare --apply-log-only --target-dir=/data/backup/base --incremental-dir=/data/backup/inc1

8. Prepare incremental backup for last backup ( consider both commited and uncommited change)

xtrabackup --prepare --target-dir=/data/backup/base --incremental-dir=/data/backup/inc2

9. Remove working dir for mysql – rm -rf /var/lib/mysql/\*

10. Copy back the backup file --

xtrabackup --copy-back –target-dir=/root/backup

To test,

1. stop mysq – systemctl stop mysql

2. remove working dir of mysql – rm -rf /var/lib/mysql

3. copy back the backup to working directory – xtrabackup --copy-back --target-dir=/data/backup/base

4. change ownership to mysql – chown -R mysql.mysql /var/lib/mysql

5. start mysql – systemctl start mysql

6. mysql restored

Take backup using mysqldump