## Install Two MySQL Server’s in a machine

### Ubuntu OS 16.4 & 18 Version , Supported

### wget https://downloads.mysql.com/archives/get/p/23/file/mysql-5.7.28-linux-glibc2.12-x86\_64.tar.gz

### download and copy to Desktop

### # sudo mv mysql-5.7.28-linux-glibc2.12-x86\_64.tar.gz /root

### Verify the user availablity

### #uname -a

### #grep mysql /etc/passwd

### Create user mysql and assign to mysql group

### #sudo useradd mysql

### #grep mysql /etc/passwd

### #grep mysql /etc/group

### dba@ubuntu:~$ sudo -i

### [sudo] password for dba:

### root@ubuntu:~# cd /root

### root@ubuntu:~# pwd

### /root

### zxvf - z Uncompress - x Extract file - v verbose - f force

### root@ubuntu:~#tar zxvf mysql-5.7.23-linux-glibc2.12-x86\_64.tar.gz

### ;;;;

### ;;;;

### will extract..

### ..

### root@ubuntu:~# mv mysql-5.7.19-linux-glibc2.12-i686 /mysqldev

### root@ubuntu:/mysqldev# ls -lrt

### total 52

### -rw-r--r-- 1 7161 31415 2478 Jun 22 07:13 README

### -rw-r--r-- 1 7161 31415 17987 Jun 22 07:13 COPYING

### drwxr-xr-x 3 root root 4096 Aug 14 12:50 include

### drwxr-xr-x 4 root root 4096 Aug 14 12:50 man

### drwxr-xr-x 2 root root 4096 Aug 14 12:51 bin

### drwxr-xr-x 5 root root 4096 Aug 14 12:51 lib

### drwxr-xr-x 2 root root 4096 Aug 14 12:51 support-files

### drwxr-xr-x 28 root root 4096 Aug 14 12:51 share

### drwxr-xr-x 2 root root 4096 Aug 14 12:51 docs

### root@ubuntu:/mysqldev# cd bin

### root@ubuntu:/mysqldev/bin# ls

### innochecksum myisampack mysqlcheck mysqld-debug mysql\_embedded mysql\_secure\_installation mysql\_tzinfo\_to\_sql resolveip

### lz4\_decompress my\_print\_defaults mysql\_client\_test\_embedded mysqld\_multi mysqlimport mysqlshow mysql\_upgrade resolve\_stack\_dump

### myisamchk mysql mysql\_config mysqld\_safe mysql\_install\_db mysqlslap mysqlxtest zlib\_decompress

### myisam\_ftdump mysqladmin mysql\_config\_editor mysqldump mysql\_plugin mysql\_ssl\_rsa\_setup perror

### myisamlog mysqlbinlog mysqld mysqldumpslow mysqlpump mysqltest\_embedded replace

### root@ubuntu:/mysqldev/bin# cd ../support-files/

### root@ubuntu:/mysqldev/support-files# ls

### magic mysqld\_multi.server mysql-log-rotate mysql.server

### root@ubuntu:/mysqldev/support-files# more mysql.server

### root@ubuntu:/mysqldev/support-files# cd ..

### root@ubuntu:/mysqldev#vi my.cnf

### [client]

### socket = /mysqldev/data/mysqldev.sock

### [mysqld]

### server-id=1

### socket = /mysqldev/data/mysqldev.sock

### port = 3306

### ###software binary location

### basedir = /mysqldev

### ###mysql server data file location

### datadir = /mysqldev/data

### :wq!

### [ save and quit ]

### root@ubuntu:/mysqldev# mkdir data

### root@ubuntu:/mysqldev# cd ..

### root@ubuntu:/# chown -R mysql:mysql /mysqldev

### root@ubuntu:/# cd /mysqldev/bin

### root@ubuntu:/mysqldev/bin# ls

### innochecksum myisampack mysqlcheck mysqld-debug mysql\_embedded mysql\_secure\_installation mysql\_tzinfo\_to\_sql resolveip

### lz4\_decompress my\_print\_defaults mysql\_client\_test\_embedded mysqld\_multi mysqlimport mysqlshow mysql\_upgrade resolve\_stack\_dump

### myisamchk mysql mysql\_config m

### root@ubuntu:/mysqldev/bin# cd ../data

### root@ubuntu:/mysqldev/data# cd ..

### root@ubuntu:/mysqldev# bin/mysqld --defaults-file=/mysqldev/my.cnf --user=mysql --initialize

### bin/mysqld: error while loading shared libraries: libaio.so.1: cannot open shared object file: No such file or directory

### root@ubuntu:/mysqldev#apt-get install libaio1 libaio-dev

### root@ubuntu:/mysqldev# bin/mysqld --defaults-file=/mysqldev/my.cnf --user=mysql --initialize

### 2017-08-14T20:27:51.499632Z 0 [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit\_defaults\_for\_timestamp server option (see documentation for more details).

### 2017-08-14T20:27:52.076481Z 0 [Warning] InnoDB: New log files created, LSN=45790

### 2017-08-14T20:27:52.188423Z 0 [Warning] InnoDB: Creating foreign key constraint system tables.

### 2017-08-14T20:27:52.301028Z 0 [Warning] No existing UUID has been found, so we assume that this is the first time that this server has been started. Generating a new UUID: 0c023f38-812f-11e7-ab5a-000c290238e3.

### 2017-08-14T20:27:52.305304Z 0 [Warning] Gtid table is not ready to be used. Table 'mysql.gtid\_executed' cannot be opened.

### 2017-08-14T20:27:52.316391Z 1 [Note] A temporary password is generated for root@localhost: nlrsc)2.Md30

### root@ubuntu:/mysqldev# cd data

### root@ubuntu:/mysqldev/data# cd mysql/

### root@ubuntu:/mysqldev/data/mysql# ls -lrt

### total 11916

### -rw-r----- 1 mysql mysql 65 Aug 14 13:27 db.opt

### -rw-r----- 1 mysql mysql 9582 Aug 14 13:27 db.frm

### -rw-r----- 1 mysql mysql 10816 Aug 14 13:27 user.frm

### -rw-r----- 1 mysql mysql 8665 Aug 14 13:27 func.frm

### -rw-r----- 1 mysql mysql 8586 Aug 14 13:27 plugin.frm

### -rw-r----- 1 mysql mysql 1024 Aug 14 13:27 func.MYI

### -rw-r----- 1 mysql mysql 0 Aug 14 13:27 func.MYD

### -rw-r----- 1 mysql mysql 8838 Aug 14 13:27 servers.frm

### -rw-r----- 1 mysql mysql 8955 Aug 14 13:27 tables\_priv.frm

### -rw-r----- 1 mysql mysql 8770 Aug 14 13:27 help\_topic.frm

### -rw-r----- 1 mysql mysql 4096 Aug 14 13:27 columns\_priv.MYI

### -rw-r----- 1 mysql mysql 0 Aug 14 13:27 columns\_priv.MYD

### Once Checking the data in mysql folder, go back to /mysqldev

### root@ubuntu:/mysqldev/data/mysql# cd /mysqldev

### ---it will start the mysql server

### root@ubuntu:/mysqldev#bin/mysqld --defaults-file=/mysqldev/my.cnf --user=root &

### ctrl C and come out

### root@ubuntu:/mysqldev# ps -ef|grep mysql

### root 4930 2506 0 13:33 pts/4 00:00:00 bin/mysqld --defaults-file=/mysqldev/my.cnf --user=root

### root 4971 2506 0 13:35 pts/4 00:00:00 grep --color=auto mysql

### root@ubuntu:/mysqldev# which mysql

### root@ubuntu:/mysqldev# PATH=$PATH:/mysqldev/bin

### root@ubuntu:/mysqldev# which mysql

### /mysqldev/bin/mysql

### root@ubuntu:/mysqldev# mysql -u root

### ERROR 2002 (HY000): Can't connect to local MySQL server through socket '/tmp/mysql.sock' (2)

### root@ubuntu:/mysqldev# mysql --socket=/mysqldev/data/mysqldev.sock --user=root -p

### 2017-08-14T20:40:38.915044Z 3 [Note] Access denied for user 'root'@'localhost' (using password: NO)

### ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: NO)

### Temporary password while starting mysql install before on top lqwA:f5jd4w;

### Note:- Ubuntu 20 you might face this issue., install below package.

### root@ubuntu20:/mysqldev# mysql --socket=/mysqldev/data/mysqldev.sock --user=root -p

### mysql: error while loading shared libraries: libncurses.so.5: cannot open shared object file: No such file or directory

### apt-get install libncurses5

### root@ubuntu:/mysqldev# mysql --socket=/mysqldev/data/mysqldev.sock --user=root -p

### Enter password:

### Welcome to the MySQL monitor. Commands end with ; or \g.

### Your MySQL connection id is 4

### Server version: 5.7.19

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### owners.

### Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

### mysql>

### mysql> show databases;

### ERROR 1820 (HY000): You must reset your password using ALTER USER statement before executing this statement.

### mysql> select version();

### ERROR 1820 (HY000): You must reset your password using ALTER USER statement before executing this statement.

### mysql> exit

### Bye

### root@ubuntu:/mysqldev# cd bin

### root@ubuntu:/mysqldev/bin# ./mysql\_secure\_installation --defaults-file=/mysqldev/my.cnf

### Securing the MySQL server deployment.

### Enter password for user root: [ system generated password only ]

### Error: Can't connect to local MySQL server through socket '/tmp/mysql.sock'

### root@ubuntu:/mysqldev/bin#vi /mysqldev/my.cnf

### [client]

### socket = /mysqldev/data/mysqldev.sock

### [mysqld]

### server-id = 1

### socket = /mysqldev/data/mysqldev.sock

### port = 3306

### basedir = /mysqldev

### datadir = /mysqldev/data

### root@ubuntu:/mysqldev/bin# ./mysql\_secure\_installation --defaults-file=/mysqldev/my.cnf

### Securing the MySQL server deployment.

### 2017-08-14T20:58:47.980888Z 5 [Note] Access denied for user 'root'@'localhost' (using password: NO)

### Enter password for user root:

### 2017-08-14T20:59:17.603209Z 6 [Note] Your password has expired. To log in you must change it using a client that supports expired passwords.

### The existing password for the user account root has expired. Please set a new password.

### New password:

### Re-enter new password:

### VALIDATE PASSWORD PLUGIN can be used to test passwords

### and improve security. It checks the strength of password

### and allows the users to set only those passwords which are

### secure enough. Would you like to setup VALIDATE PASSWORD plugin?

### Press y|Y for Yes, any other key for No: n

### Using existing password for root.

### Change the password for root ? ((Press y|Y for Yes, any other key for No) : no

### ... skipping.

### By default, a MySQL installation has an anonymous user,

### allowing anyone to log into MySQL without having to have

### a user account created for them. This is intended only for

### testing, and to make the installation go a bit smoother.

### You should remove them before moving into a production

### environment.

### Remove anonymous users? (Press y|Y for Yes, any other key for No) : y

### Success.

### Normally, root should only be allowed to connect from

### 'localhost'. This ensures that someone cannot guess at

### the root password from the network.

### Disallow root login remotely? (Press y|Y for Yes, any other key for No) : no

### ... skipping.

### By default, MySQL comes with a database named 'test' that

### anyone can access. This is also intended only for testing,

### and should be removed before moving into a production

### environment.

### Remove test database and access to it? (Press y|Y for Yes, any other key for No) : y

### - Dropping test database...

### Success.

### - Removing privileges on test database...

### Success.

### Reloading the privilege tables will ensure that all changes

### made so far will take effect immediately.

### Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y

### Success.

### All done!

### (or)

### root@dbacentre:/mysqldev# mysql --socket=/mysqldev/data/mysqldev.sock --user=root -p

### Enter password:(temporary Password)

### Welcome to the MySQL monitor. Commands end with ; or \g.

### Your MySQL connection id is 3

### Server version: 5.7.23

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### owners.

### Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

### mysql> show databases;

### ERROR 1820 (HY000): You must reset your password using ALTER USER statement before executing this statement.

### mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'mysql123';

### Query OK, 0 rows affected (0.00 sec)

### mysql> show databases;

### +--------------------+

### | Database |

### +--------------------+

### | information\_schema |

### | mysql |

### | performance\_schema |

### | sys |

### root@ubuntu:/mysqldev/bin#

### root@ubuntu:/mysqldev/bin# mysql --defaults-file=/mysqldev/my.cnf -u root -p

### Enter password:pwd [ New Password ]

### Welcome to the MySQL monitor. Commands end with ; or \g.

### Your MySQL connection id is 8

### Server version: 5.7.19 MySQL Community Server (GPL)

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### owners.

### Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

### mysql> show databases;

### +--------------------+

### | Database |

### +--------------------+

### | information\_schema |

### | mysql |

### | performance\_schema |

### | sys |

### +--------------------+

### 4 rows in set (0.01 sec)

### mysql> select version();

### +-----------+

### | version() |

### +-----------+

### | 5.7.19 |

### +-----------+

### 1 row in set (0.01 sec)

### root@ubuntu:/mysqldev/bin# ps -ef|grep mysql

### root 4930 2506 0 13:33 pts/4 00:00:02 bin/mysqld --defaults-file=/mysqldev/my.cnf --user=root

### root 5065 2506 0 14:05 pts/4 00:00:00 grep --color=auto mysql

### root@ubuntu:/mysqldev/bin# mysqladmin --defaults-file=/mysqldev/my.cnf -u root -p shutdown

### --password

### Create Instance 2

### #cd /root

### #tar zxvf mysql-5.7.23-linux-glibc2.12-x86\_64.tar.gz

### #mv mysql-5.7.19-linux-glibc2.12-i686 /mysqlqa

### root@ubuntu:/mysqlqa#vi my.cnf

### [client]

### socket = /mysqlqa/data/mysqlqa.sock

### [mysqld]

### server-id=2

### socket = /mysqlqa/data/mysqlqa.sock

### port = 3307

### basedir = /mysqlqa

### datadir = /mysqlqa/data

### innodb\_page\_size = 32768

### :wq!

### Save and quit

### root@ubuntu:/mysqlqa# mkdir data

### root@ubuntu:/mysqlqa# cd ..

### root@ubuntu:/# chown -R mysql:mysql /mysqlqa

### root@ubuntu:/# cd /mysqlqa/bin

### root@ubuntu:/mysqlqa/bin# cd ../data

### root@ubuntu:/mysqlqa/data# cd ..

### ---To initialize Mysql server at very first time

### root@ubuntu:/mysqlqa# bin/mysqld --defaults-file=/mysqlqa/my.cnf --user=mysql --initialize

### ---To Start Mysql server

### root@ubuntu:/mysqlqa#bin/mysqld --defaults-file=/mysqlqa/my.cnf --user=root &

### ctrl C and come out

### root@ubuntu:/mysqlqa# mysql --socket=/mysqlqa/data/mysqlqa.sock --user=root -p

### temporary password.. ;0ilstndPiu1

### mysql> show databases;

### ERROR 1820 (HY000): You must reset your password using ALTER USER statement before executing this statement.

### mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'mysql456';

### Connection methods:-

### mysql --socket=/mysqlqa/data/mysqlqa.sock --user=root -p

### mysql --defaults-file=/mysqlqa/my.cnf --user=root -p

### Shutdown / Startup Methods :-

### mysqladmin --defaults-file=/mysqldev/my.cnf -u root -p shutdown

### /mysqldev/bin/mysqld --defaults-file=/mysqldev/my.cnf --user=root &