MySQL Installation and Execution

Mac:

https://dev.mysql.com/doc/refman/5.6/en/osx-installation-pkg.html

Windows:

- Download MySQL DBMS (when complete, you will see c:\mysql)
 <u>DO NOT</u> use MSI Installer.
 - a. http://dev.mysql.com/downloads/mysql/ (win32.zip)
 - b. MySQL Documentation: <u>http://dev.mysql.com/doc/</u>
- 2. See below: Shutdown AND Remove (BEFORE installing)
- 3. Extract MySQL:
 - a. Open the zip file & extract the folder to the Desktop
 - b. Rename the folder mysql (with no version numbers)
 - c. Place mysql directory in C:\
- 4. The next steps are to set up a proper installation, administration, and testing:

Single Server Setup

Shutdown and remove: (BEFORE installing, <u>ONLY</u> do this step if there is another MySQL server on same machine)

Single server:

1) Stop server: C:\> NET STOP mysqld

2) Remove server:

C:\mysql\bin>mysqld --remove mysqld

...Or...

C:\mysql\bin>mysqladmin -u username -p shutdown C:\mysql\bin>mysqld --remove mysqld (MUST be in bin directory where mysqld exists, then remove its associated service; e.g., mysqld1 service)

***MUST do these two steps when "renaming" the main MySQL dir. too. Also, be sure to exit the command prompt, otherwise, you cannot rename the directory (e.g., c:\mysql51 to c:\mysql).

3) Specify Options for ALL services:

Find Windows directory (Place **my.ini** file in Windows directory – to find): Start > run, type cmd C:\> echo %WINDIR%

Creating Option file (basic <u>my.ini</u> file):

http://dev.mysql.com/doc/refman/5.0/en/windows-create-option-file.html Copy and paste following code (my.ini file), and place file in Windows directory: # options for mysqld service [mysqld] basedir = C:/mysql # set datadir to the location of your data directory datadir=C:/mysql/data port = 3307

Multiple Servers Setup (Use <u>ONLY</u> if installing multiple MySQL servers)

Shutdown AND Remove (BEFORE installing):

To remove a server that is installed as a service, first stop it if it is running by executing NET STOP

MYSQL. Then use the --remove option to remove it:

Multiple servers:

1) Stop servers:

C:\> NET STOP mysqld1 C:\> NET STOP mysqld2

2) Remove servers:

C:\mysql\bin>mysqld --remove mysqld1 C:\mysql5\bin> mysqld --remove mysqld2

3) Specify Options for ALL services:

Place my.ini file in Windows directory – to find: C:\> echo %WINDIR%

Creating Option file (basic my.ini file):

<u>http://dev.mysql.com/doc/refman/5.0/en/windows-create-option-file.html</u> <u>http://dev.mysql.com/doc/refman/5.0/en/multiple-windows-services.html</u> <u>http://mysqld.active-venture.com/Multiple_servers.html</u>

options for mysqld1 service [mysqld1] basedir = C:/mysql # set datadir to the location of your data directory datadir=C:/mysql/data port = 3308

options for mysqld2 service [mysqld2] basedir = C:/mysql5 # set datadir to the location of your data directory datadir=C:/mysql5/data port = 3309

4) Install:

Install the services as follows, using the full server pathnames to ensure that Windows registers the correct executable program for each service:

Single server:

C:\mysql\bin>mysqld --install mysqld

Multiple servers:

C:\mysql\bin>mysqld --install mysqld1 C:\mysql5\bin>mysqld --install mysqld2

5) Starting:

*****NOTE***:** MySQL 5.7 (MUST initialize data directory *before* starting as service!) https://dev.mysql.com/doc/refman/5.7/en/data-directory-initialization-mysqld.html

c:\mysql\bin>mysqld --initialize-insecure --user=mysql --basedir=c:/mysql -datadir=c:/mysql/data

(--initialize-insecure allows you to login w/o password! Change it immediately!)

Single server:

C:\>net start mysqld The mysqld service is starting. The mysqld service was started successfully.

Multiple servers:

C:\>net start mysqld1 The mysqld1 service is starting. The mysqld1 service was started successfully.

C:\>net start mysqld2 The mysqld2 service is starting. The mysqld2 service was started successfully.

6) Testing (change option values accordingly):

C:\>C:\mysql\bin\mysqladmin -h 127.0.0.1 -u root -p --port=3307 version shell> mysqladmin -h 127.0.0.1 -u root -p version --port=3307 variables

for UNIX...

C:\>C:\mysql\bin\mysqladmin --protocol=socket --socket=/tmp/mysql.sock version

7) Logging into Servers (change option values accordingly):

C:\mysql\bin>mysql -h 127.0.0.1 -u root -p --port=3307

8) Administration:

Make the following changes:

c:\mysql\bin>**mysql -u root -p --port=3307** Enter password:

mysql> use mysql; mysql> select * from user;

make sure to do at least the following 3 items...# 1. delete this default record in mysql.user table that allow the following connections:

Host='localhost' and User=''; #

localhost any user

mysql> delete from user where host='localhost' and user=''; mysql> select * from user;

mysql> update user set user='your_username'; mysql> select * from user; BE SURE to write down and SAVE your new user name!

2. this sets password in mysql.user table that has user='root' password=''; As of MySQL 5.7.6, use this statement:

mysql> SELECT User, Host, HEX(authentication_string) FROM mysql.user; The statement uses HEX() because passwords stored in the authentication_string column might contain binary data that does not display well.

As of MySQL 5.7.6, use ALTER USER :

mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'new password';

Before 5.7.6, use SET PASSWORD :

mysql> SET PASSWORD FOR user = PASSWORD('new_password');

mysql>UPDATE user SET Password=password('newpassword') WHERE user='username'; mysql>FLUSH PRIVILEGES; # takes affect without server restart mysql> select * from user; BE SURE to write down and SAVE your new password!

3. then, be sure to view table privileges

mysql> select * from db; mysql>update db set host='localhost', user='your_username' where user=''; mysql> select * from db; mysql>FLUSH PRIVILEGES;

select now(), user(), version(); # will remain as root user until exit

-- test if MySQL is working...

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c:\mysql\bin>mysqladmin -u your_username -p --port=3307 version status proc
Enter password: *****
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