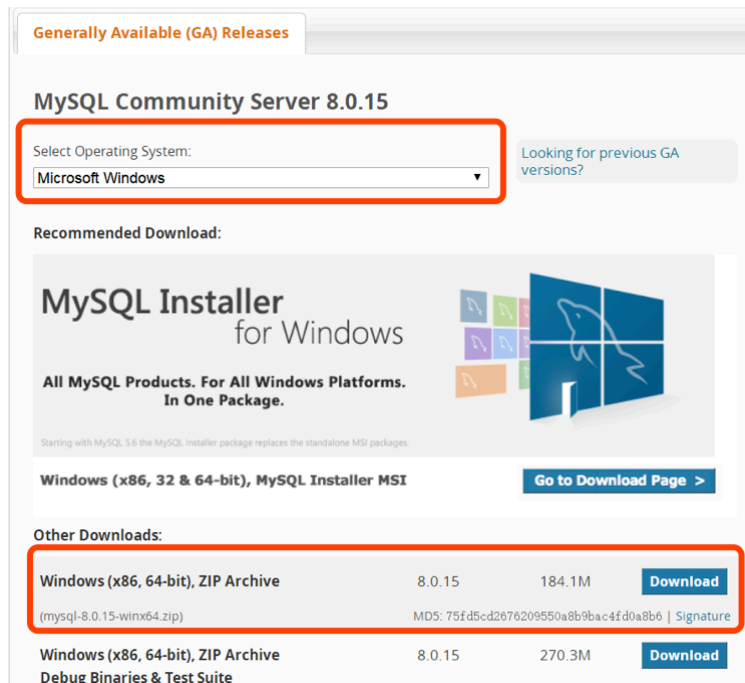


# Installation instructions for MySQL (Windows)

## Step 1: Install MySQL Community Server

First, go to the official [website](#) to download MySQL Community Server. You will find a section as follows.

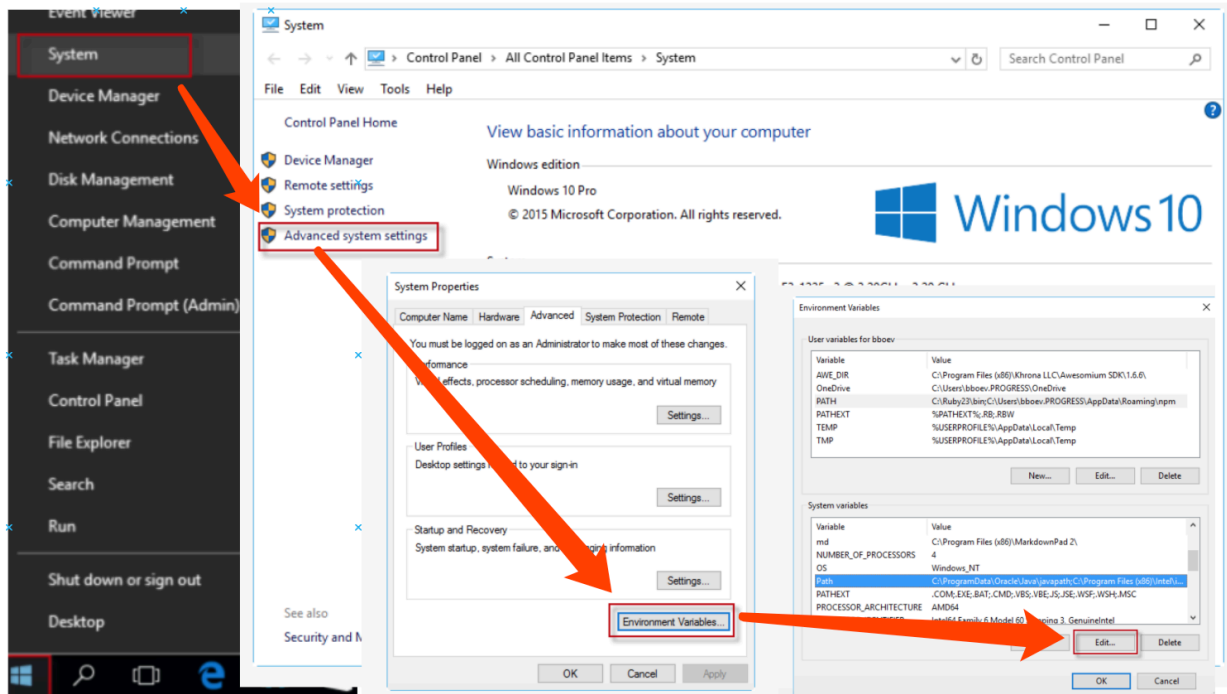


Once the zip file is downloaded. It is recommended to depress it under the root of C disk on your computer. You find the **mysql-8.0.14-winx64** folder as follows.

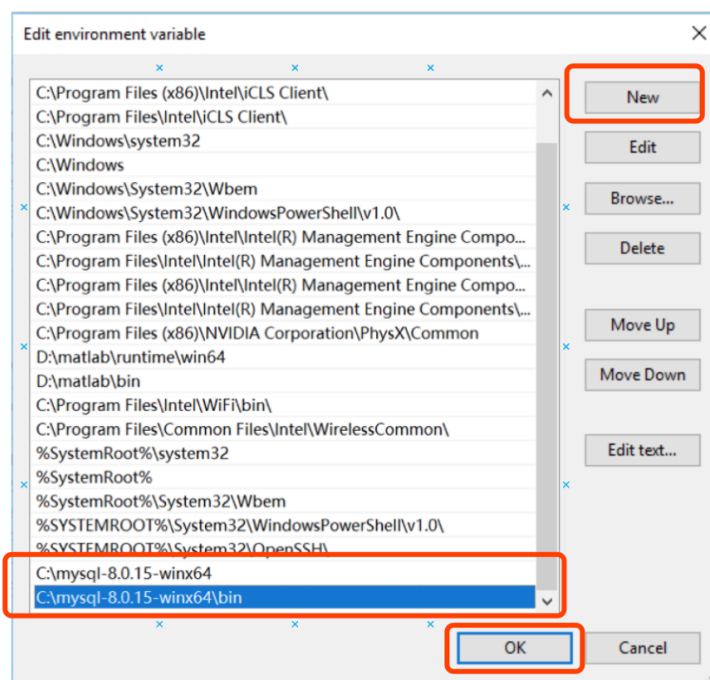
Windows (C:)			
名称	修改日期	类型	大小
LenovoDrivers	2018/7/21 0:01	文件夹	
MinGW	2018/9/17 4:58	文件夹	
mysql-8.0.15-winx64	2019/2/26 11:41	文件夹	
PEMicro	2017/10/2 0:40	文件夹	
PerfLogs	2018/4/12 7:38	文件夹	
Program Files	2019/1/15 23:03	文件夹	
Program Files (x86)	2019/1/22 20:47	文件夹	
Windows	2019/1/19 4:25	文件夹	
用户	2018/8/29 18:17	文件夹	

## Step 2: Configure Environment Path

In order to use mysql command directly once you open terminal, you can set up by going to **System -> Advanced system settings -> Advanced -> Environment Variables....** Under the **System variables** section, scroll down and highlight the **Path** variable. Click the **Edit** button.



In the Edit environment variable panel, click **New** button to add two paths. They are **C:\mysql-8.0.15-winx64** and **C:\mysql-8.0.15-winx64\bin** respectively.



After adding the two paths, just click on **OK** button to confirm the modification.

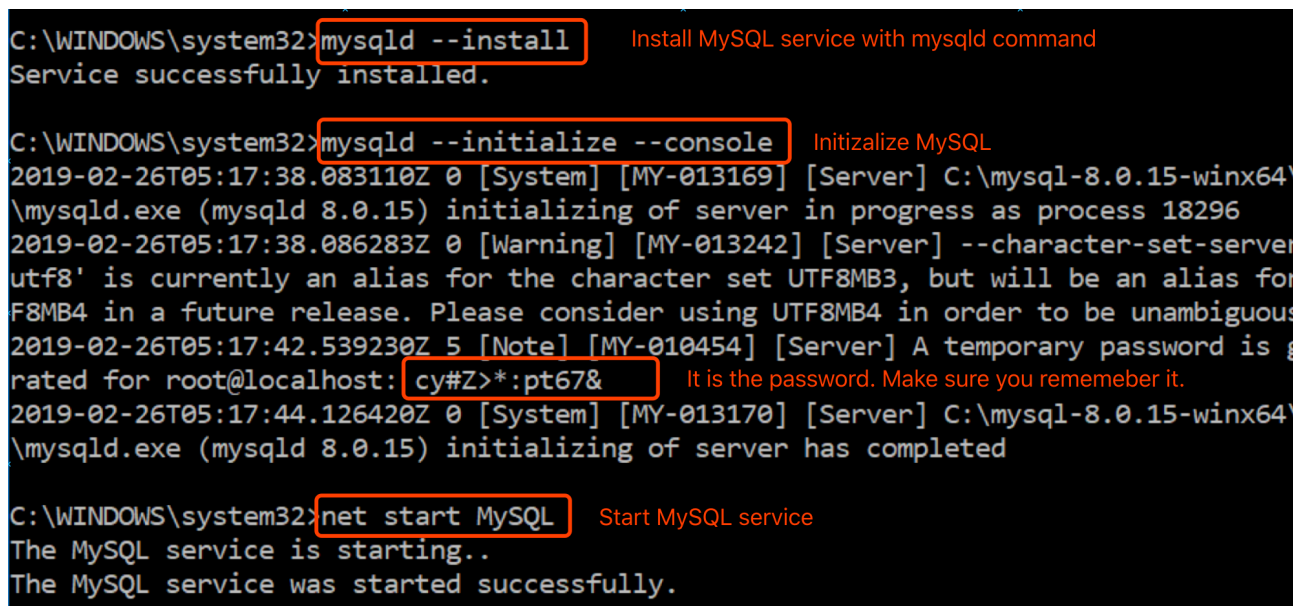
### Step 3: Initialize MySQL

After setting up the environment variables, next get in to the **mysql-8.0.14-winx64** folder. Under the root directory, create a file named **my.ini** and open it in a text editor. Put the following codes in the file and save it. **my.ini** configures some necessary parameters used for initializing MySQL.

```
[mysql]
default-character-set=utf8

[mysqld]
port = 3306
#C:\mysql-8.0.15-winx64 is the root where MySQL is located. You should put it correspondingly.
basedir=C:\mysql-8.0.15-winx64
datadir=C:\mysql-8.0.15-winx64\data
max_connections=20
character-set-server=utf8
default-storage-engine=INNODB
```

With the **my.ini** file created, next step is to initialize MySQL. Run **command line with the identity of administrator** (right-click the CMD icon and select run the command as an administrator). In the command line, you run the commands as follows



```
C:\WINDOWS\system32>mysql --install      Install MySQL service with mysql command
Service successfully installed.

C:\WINDOWS\system32>mysql --initialize --console  Initialize MySQL
2019-02-26T05:17:38.083110Z 0 [System] [MY-013169] [Server] C:\mysql-8.0.15-winx64\
\mysqld.exe (mysqld 8.0.15) initializing of server in progress as process 18296
2019-02-26T05:17:38.086283Z 0 [Warning] [MY-013242] [Server] --character-set-server
utf8' is currently an alias for the character set UTF8MB3, but will be an alias for
UTF8MB4 in a future release. Please consider using UTF8MB4 in order to be unambiguous
2019-02-26T05:17:42.539230Z 5 [Note] [MY-010454] [Server] A temporary password is g
enerated for root@localhost: cy#Z*:pt67&      It is the password. Make sure you rememeber it.
2019-02-26T05:17:44.126420Z 0 [System] [MY-013170] [Server] C:\mysql-8.0.15-winx64\
\mysqld.exe (mysqld 8.0.15) initializing of server has completed

C:\WINDOWS\system32>net start MySQL      Start MySQL service
The MySQL service is starting..
The MySQL service was started successfully.
```

Once you start MySQL service successfully, next you can go to run MySQL

### Step 4: Alter password of MySQL

Because the randomly generated password is complicated, it is better to change the password to one that you are familiar with. First, you enter **mysql -u root -p** to run MySQL and then you enter the password that is generated in step 3. If verified successfully, you get in to the shell of MySQL. Finally, enter **alter user 'root'@'localhost' identified by '<your new password>';** to update the password. The process goes as follows.

```
C:\WINDOWS\system32\mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 13
Server version: 8.0.15

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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 '123';
Query OK, 0 rows affected (0.02 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
```

Enter the command to run MySQL  
This is the password you just remembered

Here I change the password to 123

After altering the password, you can use `quit` to exit the shell. Next, you can try **`mysql -u root -p`** again with the new password to get in to MySQL shell. So far, you have gotten everything set up. Fun play with MySQL.