

# How to Install MySQL

Data Intelligence and Learning ([DIAL](#)) Lab

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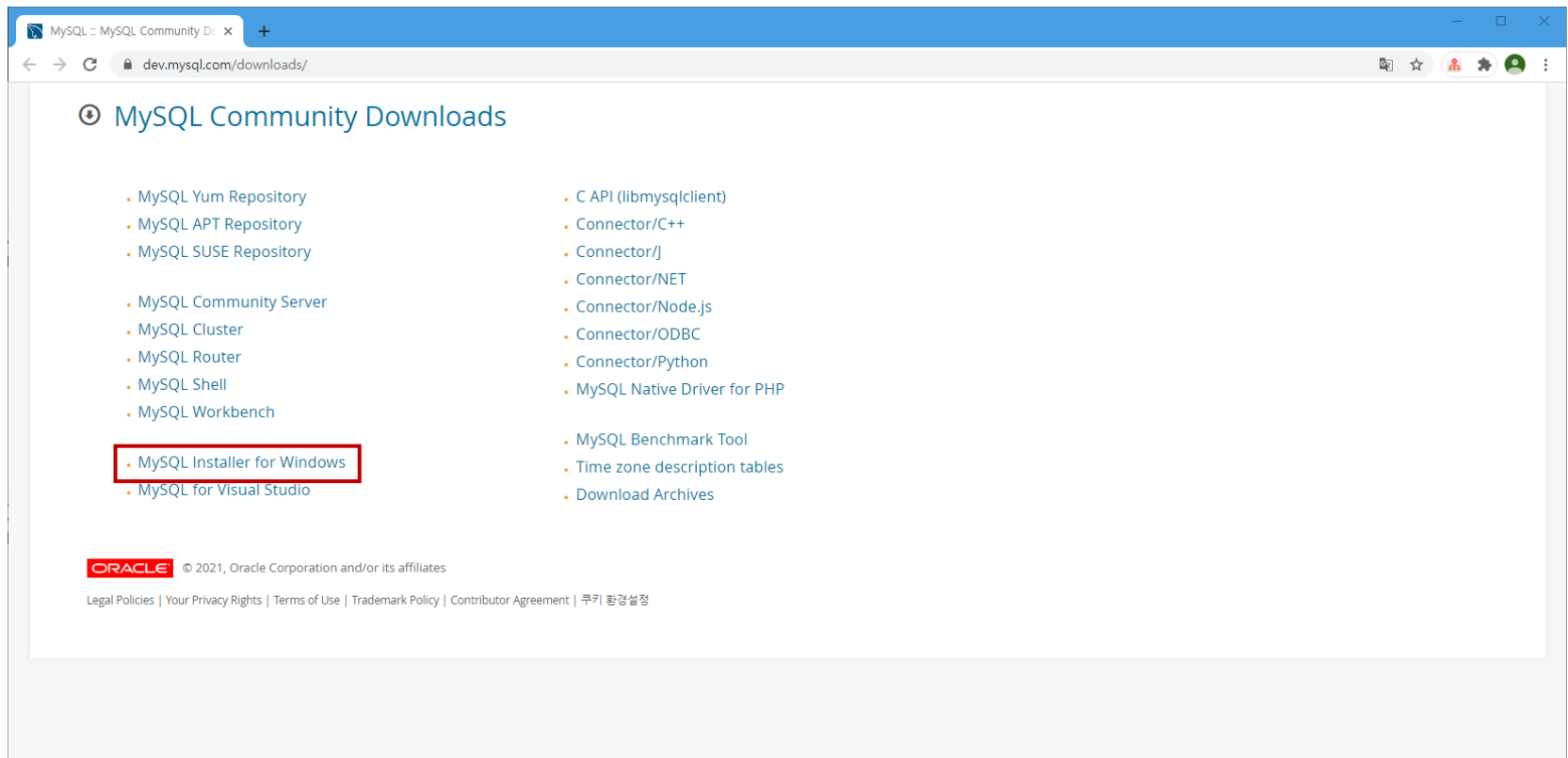
# Procedure of Installing MySQL

- **Step 1: Accessing the download page**
- **Step 2: Downloading 'MySQL Installer'**
- **Step 3: Installing 'MySQL Installer'**
- **Step 4: Installing MySQL Server**
- **Step 5: Installing MySQL Router**
- **Step 6: Configuration setting**
- **Step 7: Installation Complete**
- **Step 8: Testing MySQL**

# Step 1: Accessing the Download Page



➤ Go to <https://dev.mysql.com/downloads/> and click **MySQL Installer** for Windows.



# Step 1: Accessing the Download Page



➤ Go to **Archives**.

MySQL - Download MySQL Inst x +

dev.mysql.com/downloads/installer/

## MySQL Community Downloads

MySQL Installer

General Availability (GA) Releases **Archives**

### MySQL Installer 8.0.23

Select Operating System:  
Microsoft Windows

Looking for previous GA versions?

<b>Windows (x86, 32-bit), MSI Installer</b> (mysql-installer-web-community-8.0.23.0.msi)	8.0.23	2.4M	<a href="#">Download</a>
MD5: a3af6d91f93e046452b38a1e2589534c   <a href="#">Signature</a>			
<b>Windows (x86, 32-bit), MSI Installer</b> (mysql-installer-community-8.0.23.0.msi)	8.0.23	422.4M	<a href="#">Download</a>
MD5: 8de05ced955631901829e1a363cdf150   <a href="#">Signature</a>			

We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.

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# Step 1: Accessing the Download Page



➤ Click **Product Version** and change it to **8.0.19**.

The screenshot shows the MySQL Product Archives page in a web browser. The page title is "MySQL Product Archives" and the breadcrumb is "MySQL Installer (Archived Versions)". A yellow warning box states: "Please note that these are old versions. New releases will have recent bug fixes and features! To download the latest release of MySQL Installer, please visit MySQL Downloads." The "Product Version" dropdown menu is open, showing a list of versions from 8.0.22 down to 8.0.1 dmr. The version 8.0.19 is highlighted. The "Operating System" dropdown is set to "Windows (x86, 32-bit)". The table below shows two download links for 8.0.19, both dated Oct 12, 2020. The first link is for a 2.5M file, and the second is for a 405.2M file. Both links have a "Download" button and a "Signature" link. A note at the bottom says "We suggest that you verify the integrity of the packages you download." The Oracle logo and copyright information are visible at the bottom left.

Product Version	Operating System	Date	Size	Download	Signature
8.0.19	Windows (x86, 32-bit)	Oct 12, 2020	2.5M	<a href="#">Download</a>	<a href="#">MD5: 6d4c2f4fe997f1e9e8a02b105e7f72c8   Signature</a>
8.0.19	Windows (x86, 32-bit)	Oct 12, 2020	405.2M	<a href="#">Download</a>	<a href="#">MD5: 4b90e669171b72247120b312a8c25dc9   Signature</a>

# Step 2: Downloading MySQL Installer



➤ **Version 8.0.19** was released on Jan 7, 2020. Download the one in the red rectangle.

MySQL Product Archives

MySQL Installer (Archived Versions)

**Please note that these are old versions. New releases will have recent bug fixes and features!**  
To download the latest release of MySQL Installer, please visit [MySQL Downloads](#).

Product Version:

Operating System:

Product Version	Release Date	Size	Action
Windows (x86, 32-bit), MSI Installer (mysql-installer-web-community-8.0.19.0.msi)	Jan 7, 2020	18.6M	<a href="#">Download</a>
Windows (x86, 32-bit), MSI Installer (mysql-installer-community-8.0.19.0.msi)	Jan 7, 2020	398.9M	<a href="#">Download</a>

We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.

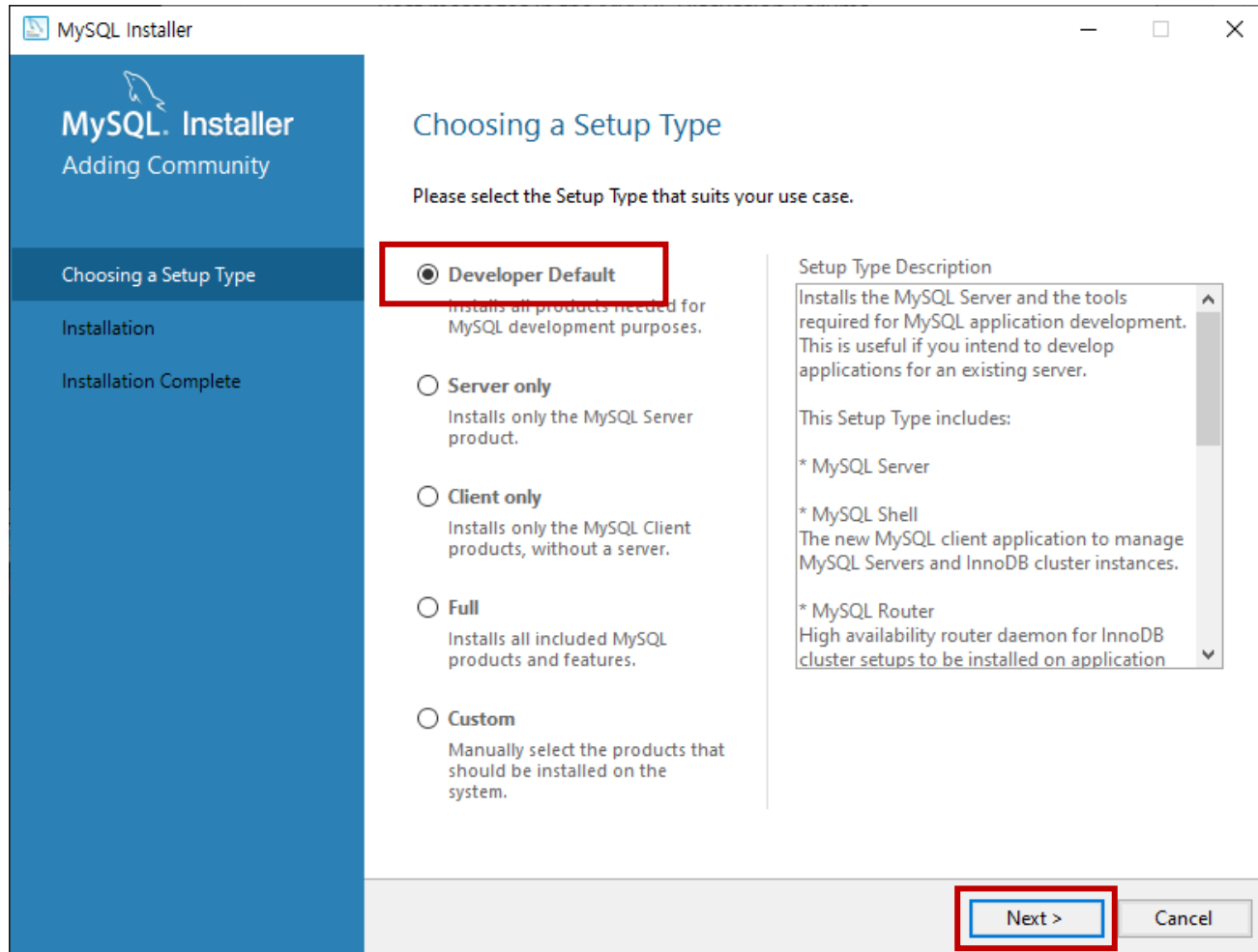
MySQL open source software is provided under the GPL License.

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# Step 3: Installing 'MySQL Installer'

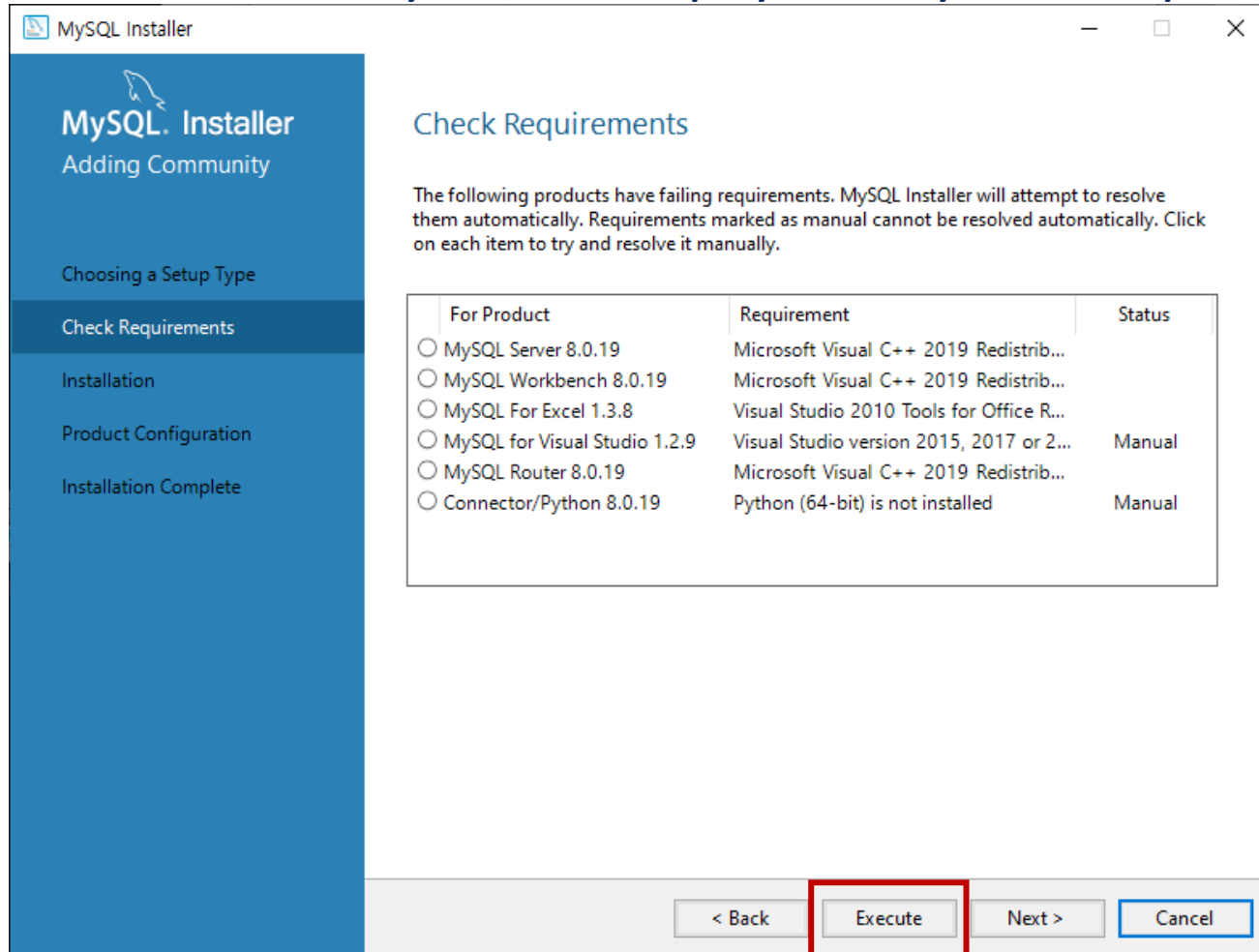
➤ Click 'Developer Default' and 'Next.'



# Step 3: Installing 'MySQL Installer'

➤ Click 'Execute' and Click 'Next' after installer has installed

**requirements** — You may not see this step if you already satisfied requirements.

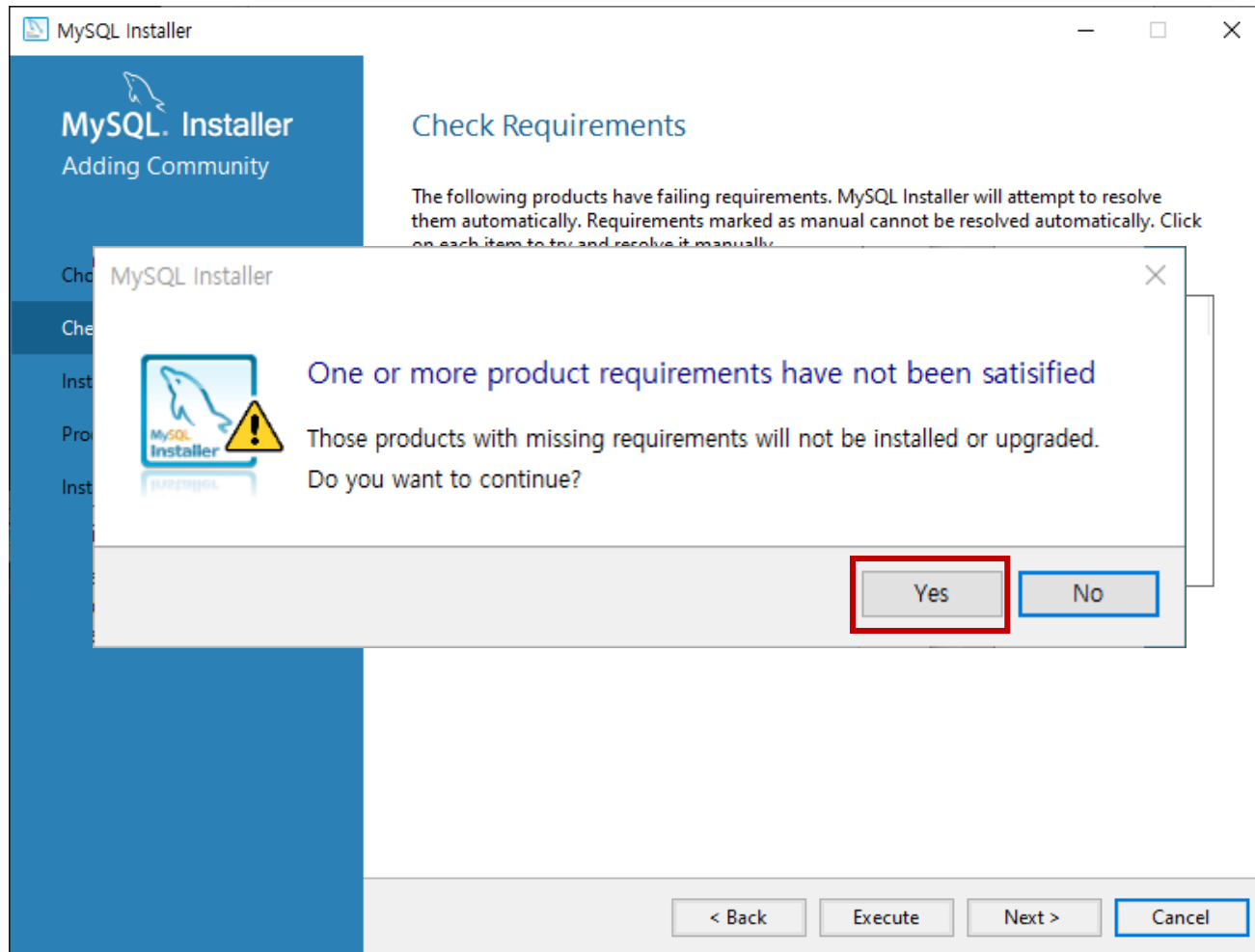




# Step 3: Installing 'MySQL Installer'



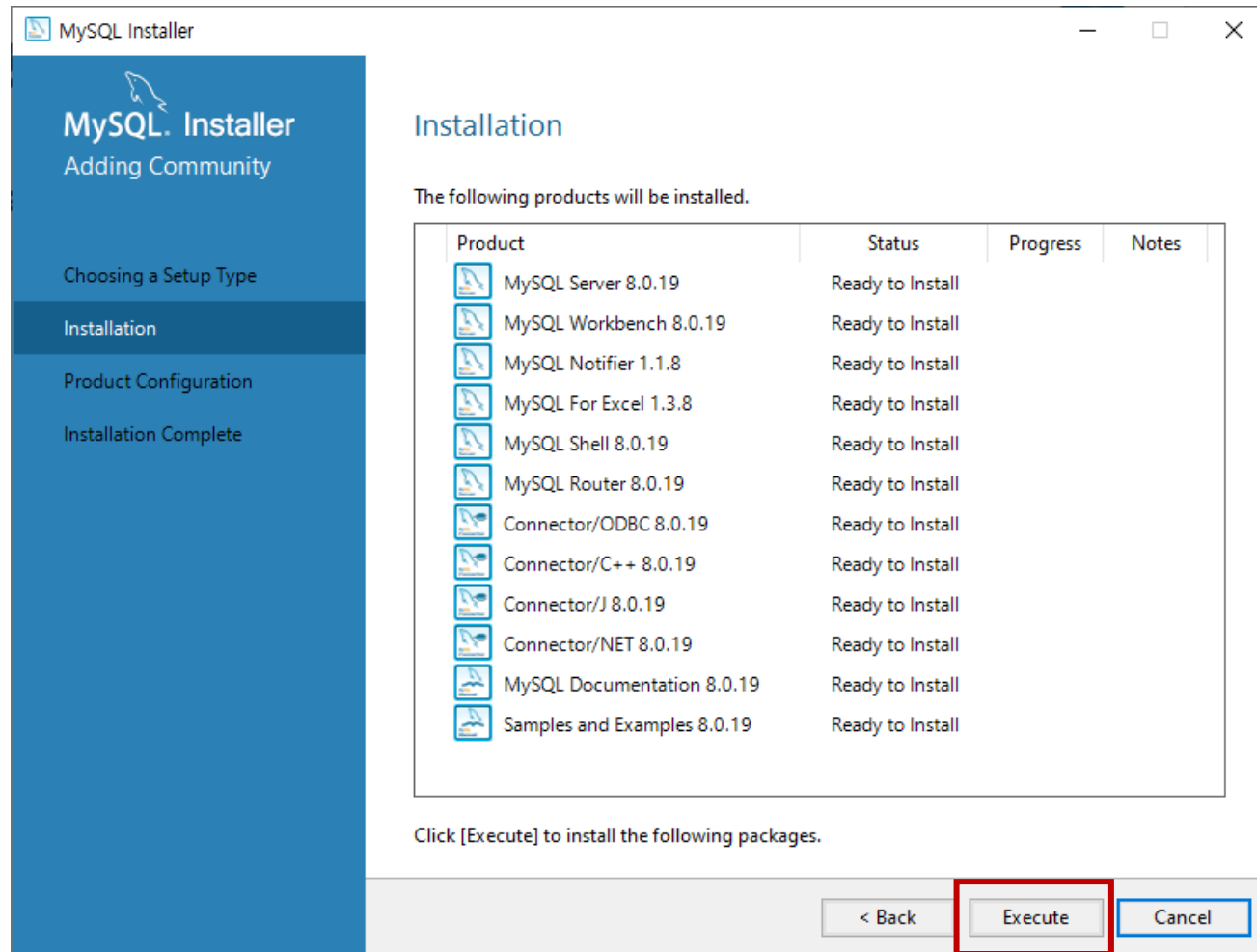
➤ Click 'yes' if this message pops up.



# Step 3: Installing 'MySQL Installer'



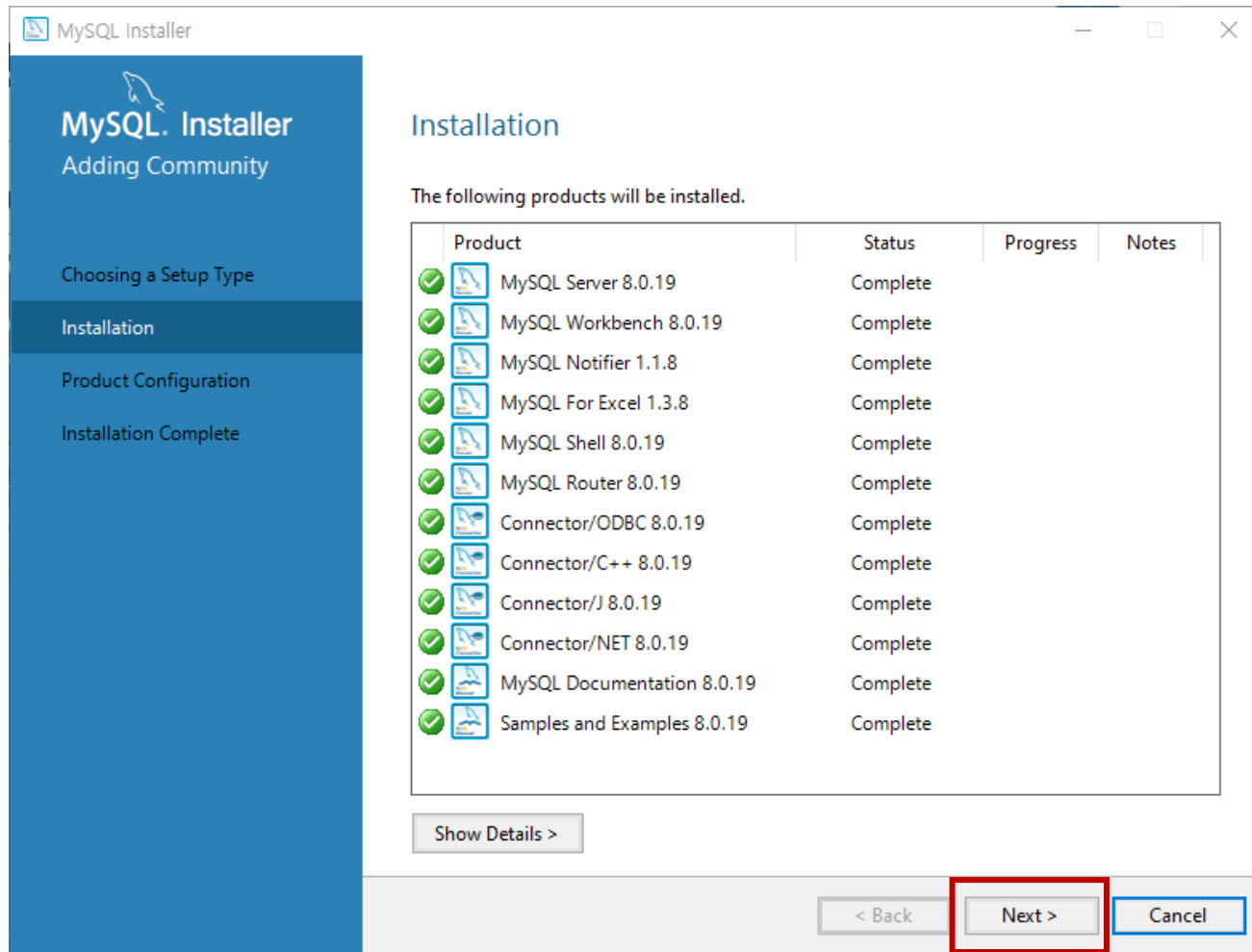
➤ Click 'Execute.'



# Step 3: Installing 'MySQL Installer'



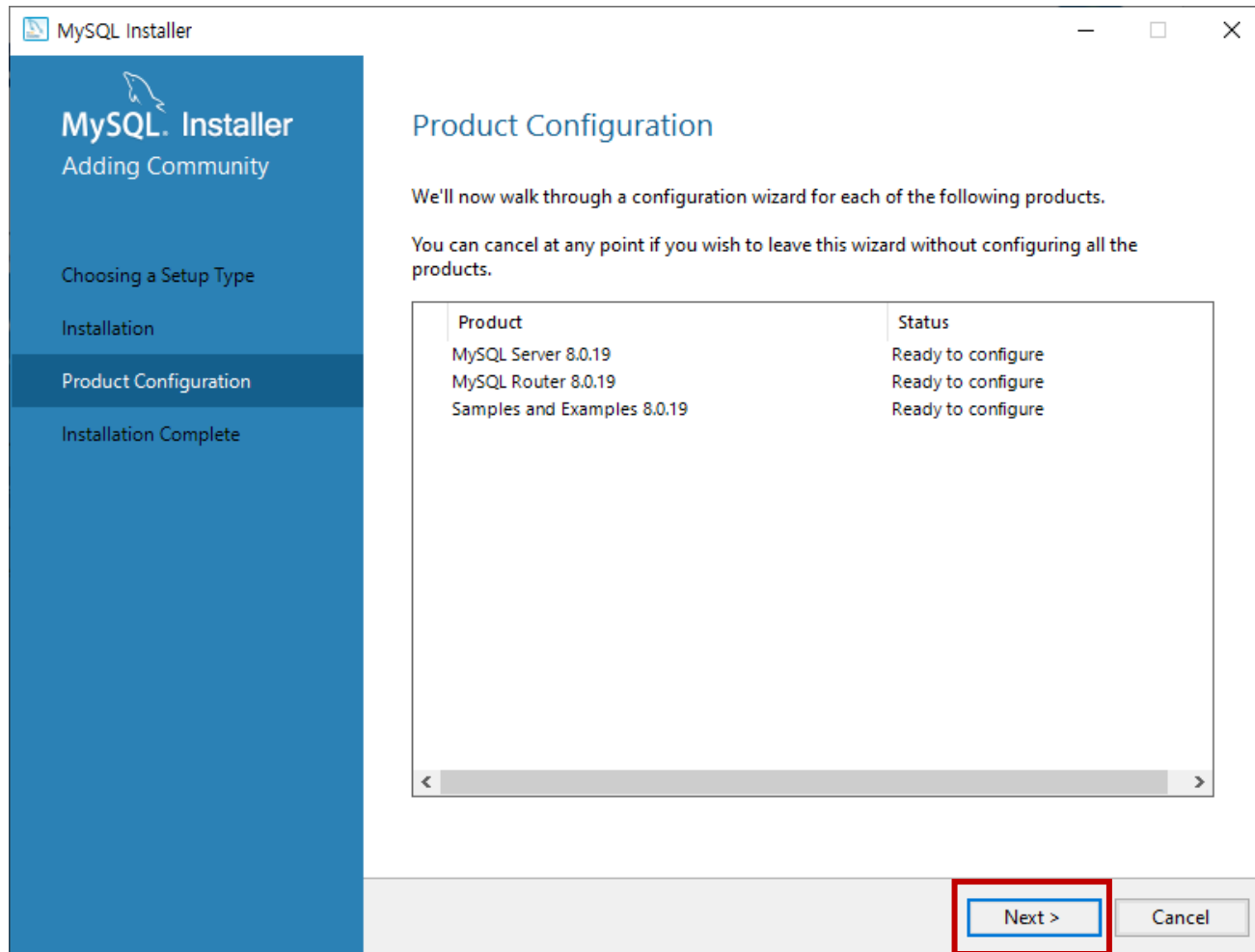
➤ Click 'Next' after all products become complete.



# Step 3: Installing 'MySQL Installer'



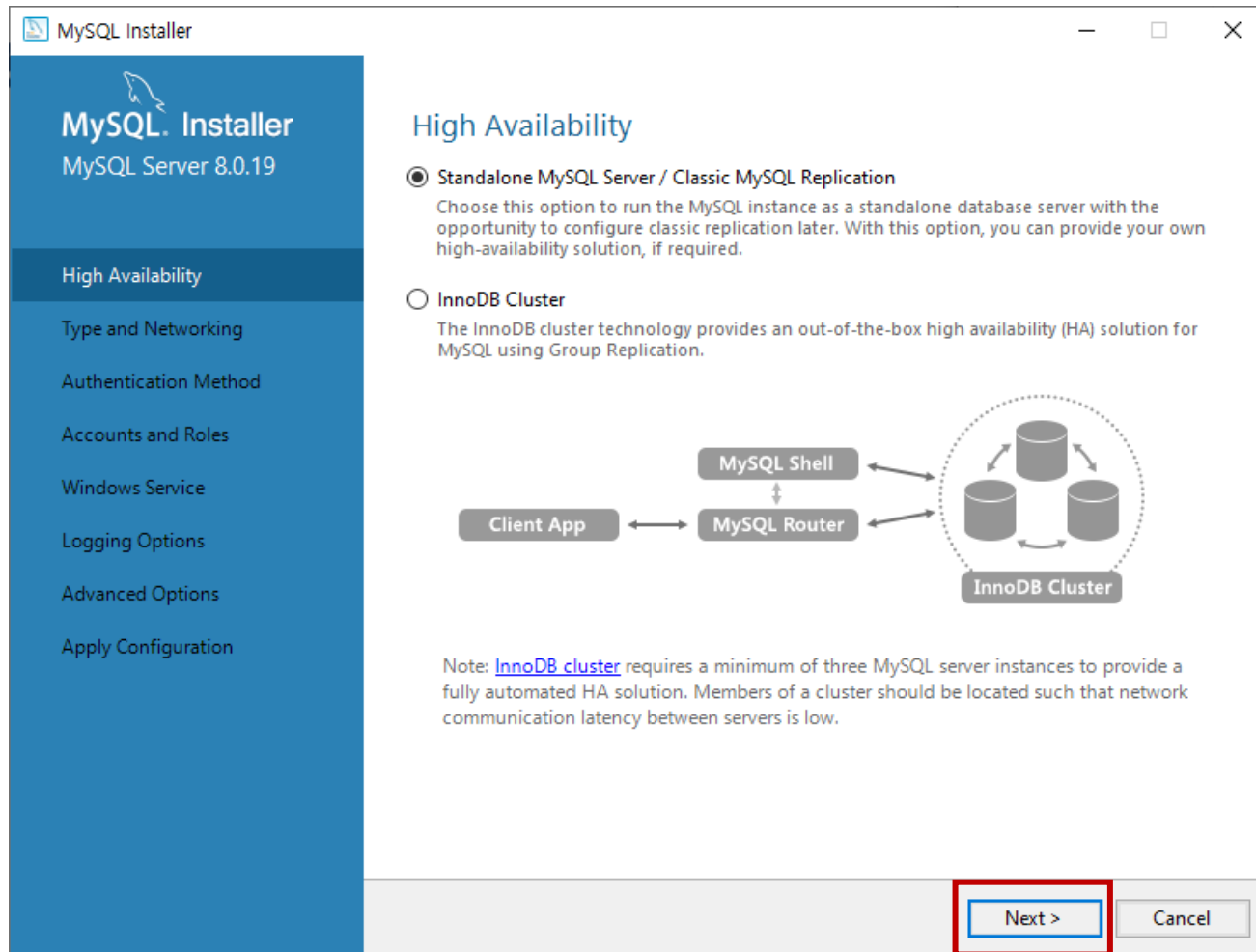
➤ Click 'Next.'



# Step 4: Installing MySQL Server



- Check 'Standalone MySQL Server / Classic MySQL Replication' and click 'Next.'



# Step 4: Installing MySQL Server



➤ Click 'Next.'

The screenshot shows the MySQL Installer window for MySQL Server 8.0.19. The left sidebar contains a list of configuration steps: High Availability, Type and Networking (selected), Authentication Method, Accounts and Roles, Windows Service, and Apply Configuration. The main area is titled 'Type and Networking' and contains the following sections:

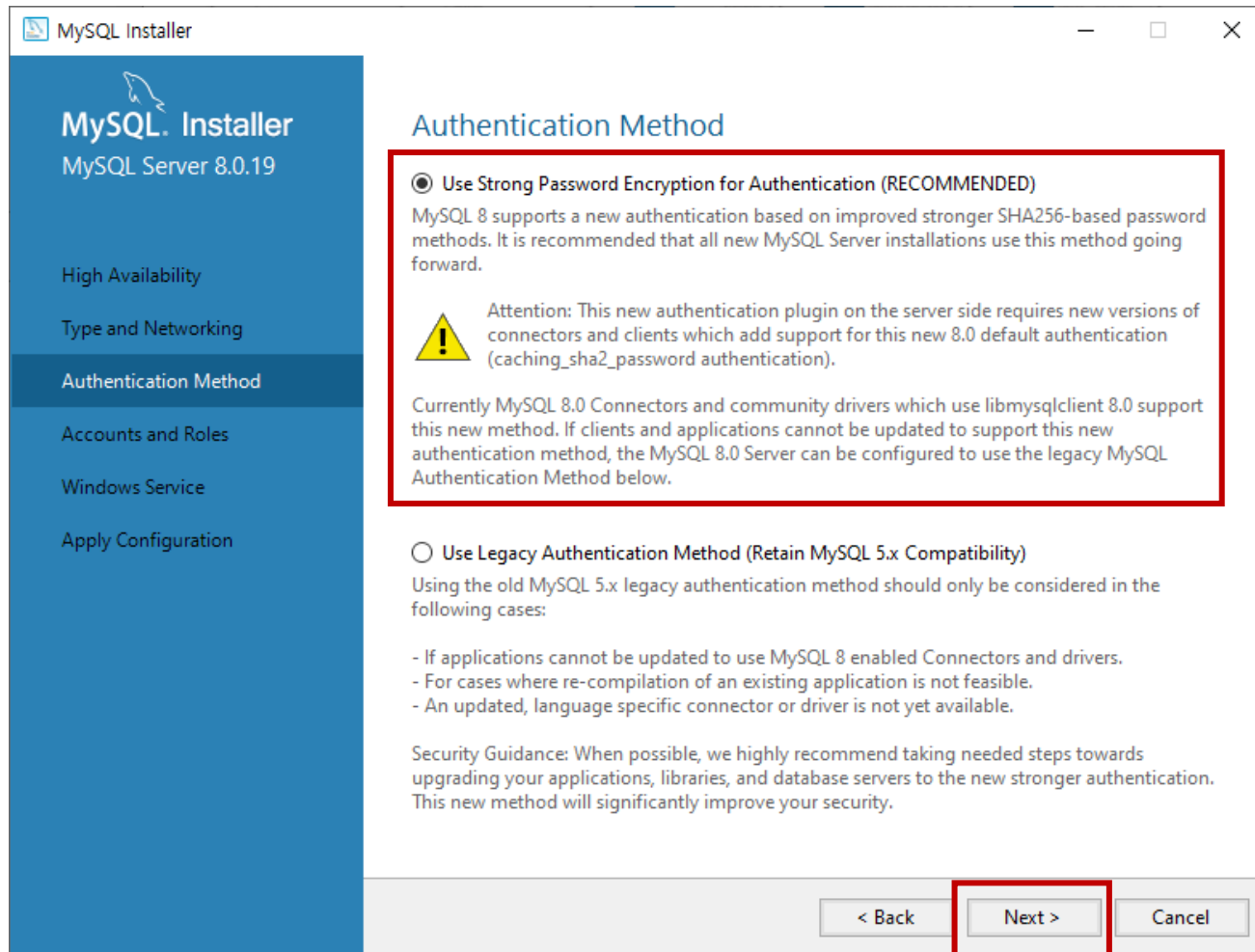
- Server Configuration Type**: A description stating that this setting defines how system resources are assigned. The 'Config Type' dropdown is set to 'Development Computer'.
- Connectivity**: A description stating that the following controls select how to connect to the server. It includes:
  - ☒ TCP/IP: Port is 3306, X Protocol Port is 33060.
  - ☒ Open Windows Firewall ports for network access.
  - ☐ Named Pipe: Pipe Name is MYSQL.
  - ☐ Shared Memory: Memory Name is MYSQL.
- Advanced Configuration**: A description stating that the checkbox below gets additional configuration pages. It includes:
  - ☐ Show Advanced and Logging Options.

At the bottom right, there are three buttons: '< Back', 'Next >' (highlighted with a red rectangle), and 'Cancel'.

# Step 4: Installing MySQL Server

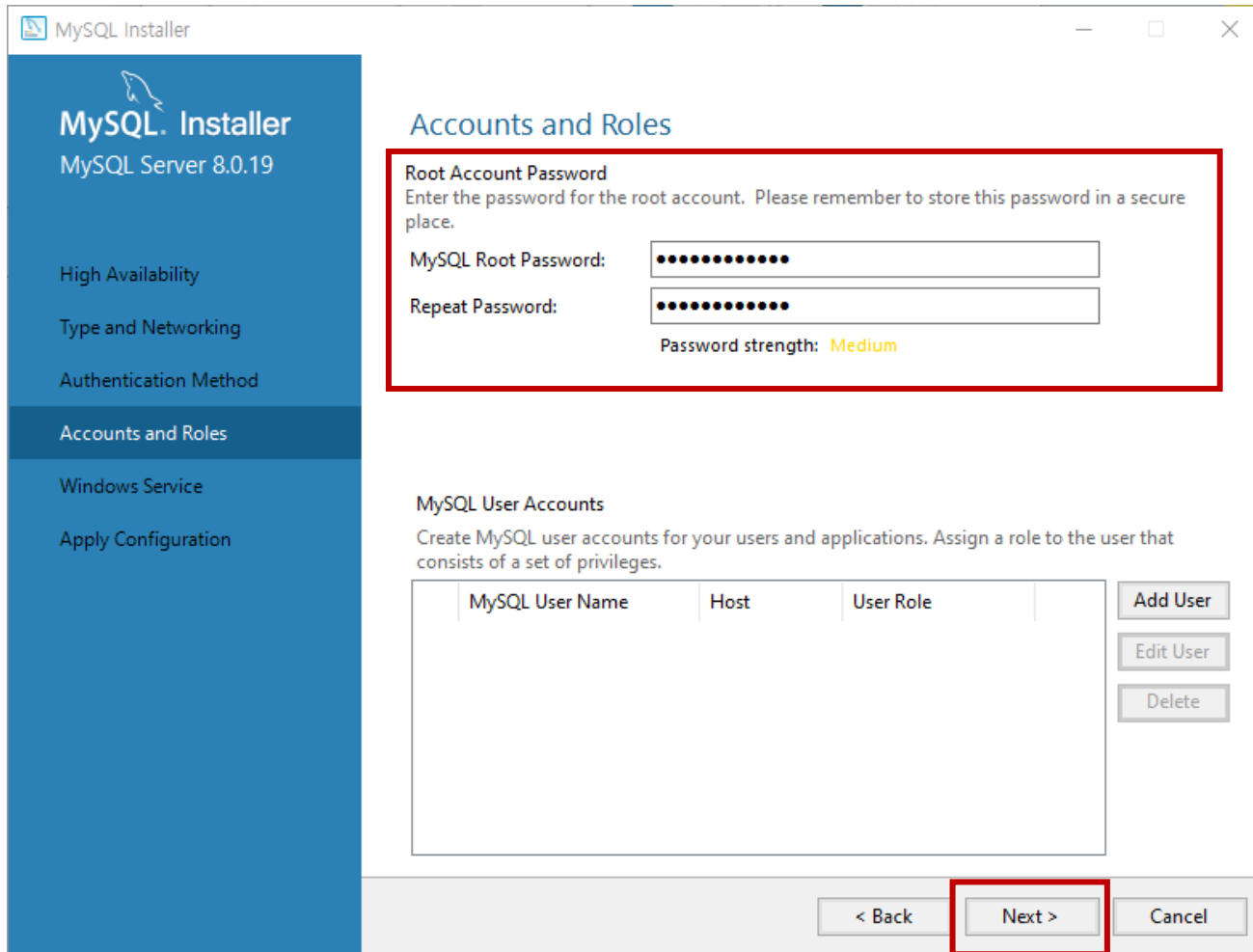


➤ Check 'RECOMMENDED' and click 'Next.'



# Step 4: Installing MySQL Server

➤ Set your Root Password and click 'Next.'



MySQL Installer

MySQL. Installer  
MySQL Server 8.0.19

High Availability  
Type and Networking  
Authentication Method  
**Accounts and Roles**  
Windows Service  
Apply Configuration

### Accounts and Roles

**Root Account Password**  
Enter the password for the root account. Please remember to store this password in a secure place.

MySQL Root Password:

Repeat Password:

Password strength: **Medium**

**MySQL User Accounts**  
Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.

MySQL User Name	Host	User Role
-----------------	------	-----------

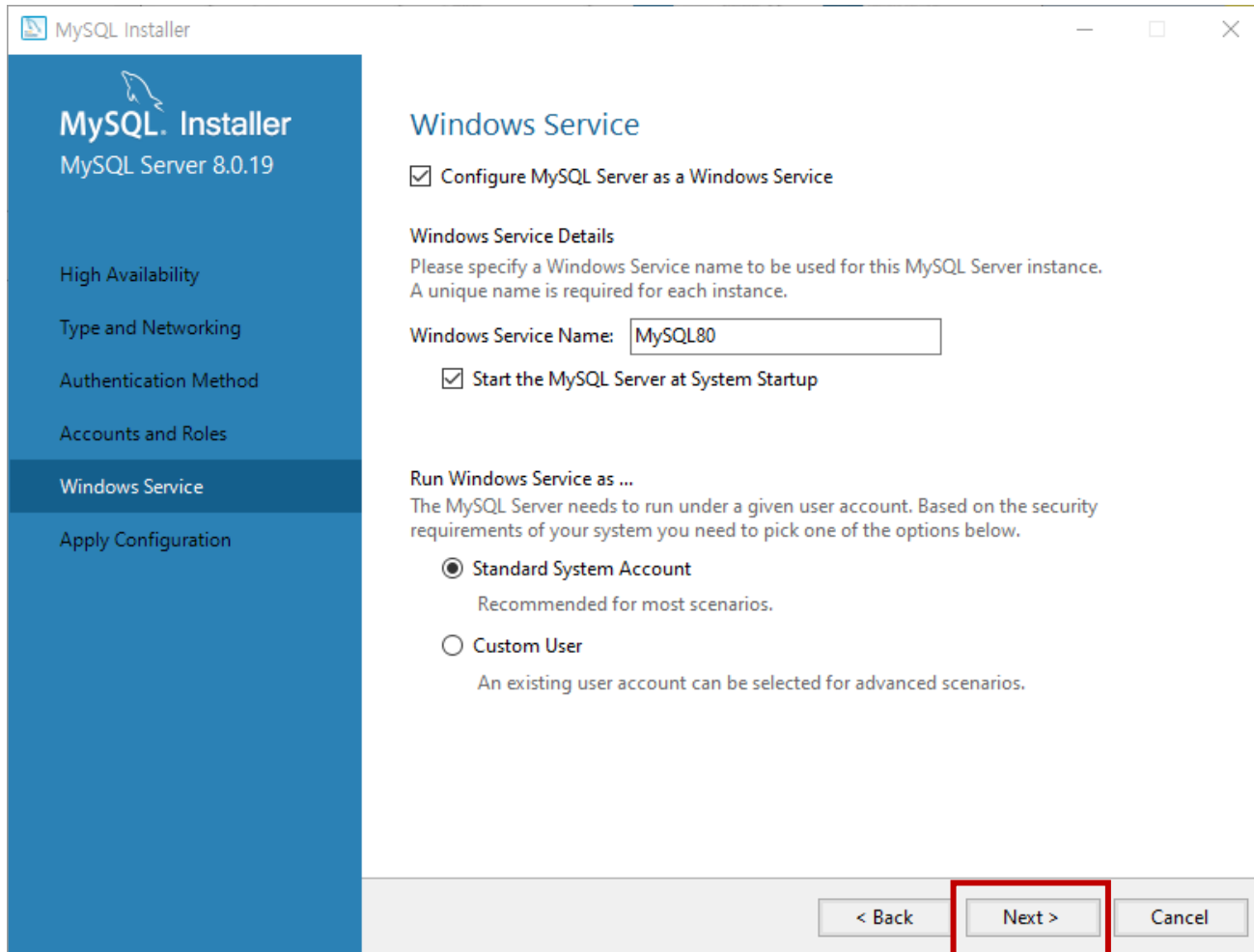
Add User  
Edit User  
Delete

< Back   **Next >**   Cancel



# Step 4: Installing MySQL Server

➤ Click 'Next.'



MySQL Installer

MySQL Server 8.0.19

High Availability

Type and Networking

Authentication Method

Accounts and Roles

Windows Service

Apply Configuration

### Windows Service

☒ Configure MySQL Server as a Windows Service

**Windows Service Details**  
Please specify a Windows Service name to be used for this MySQL Server instance. A unique name is required for each instance.

Windows Service Name:

☒ Start the MySQL Server at System Startup

**Run Windows Service as ...**  
The MySQL Server needs to run under a given user account. Based on the security requirements of your system you need to pick one of the options below.

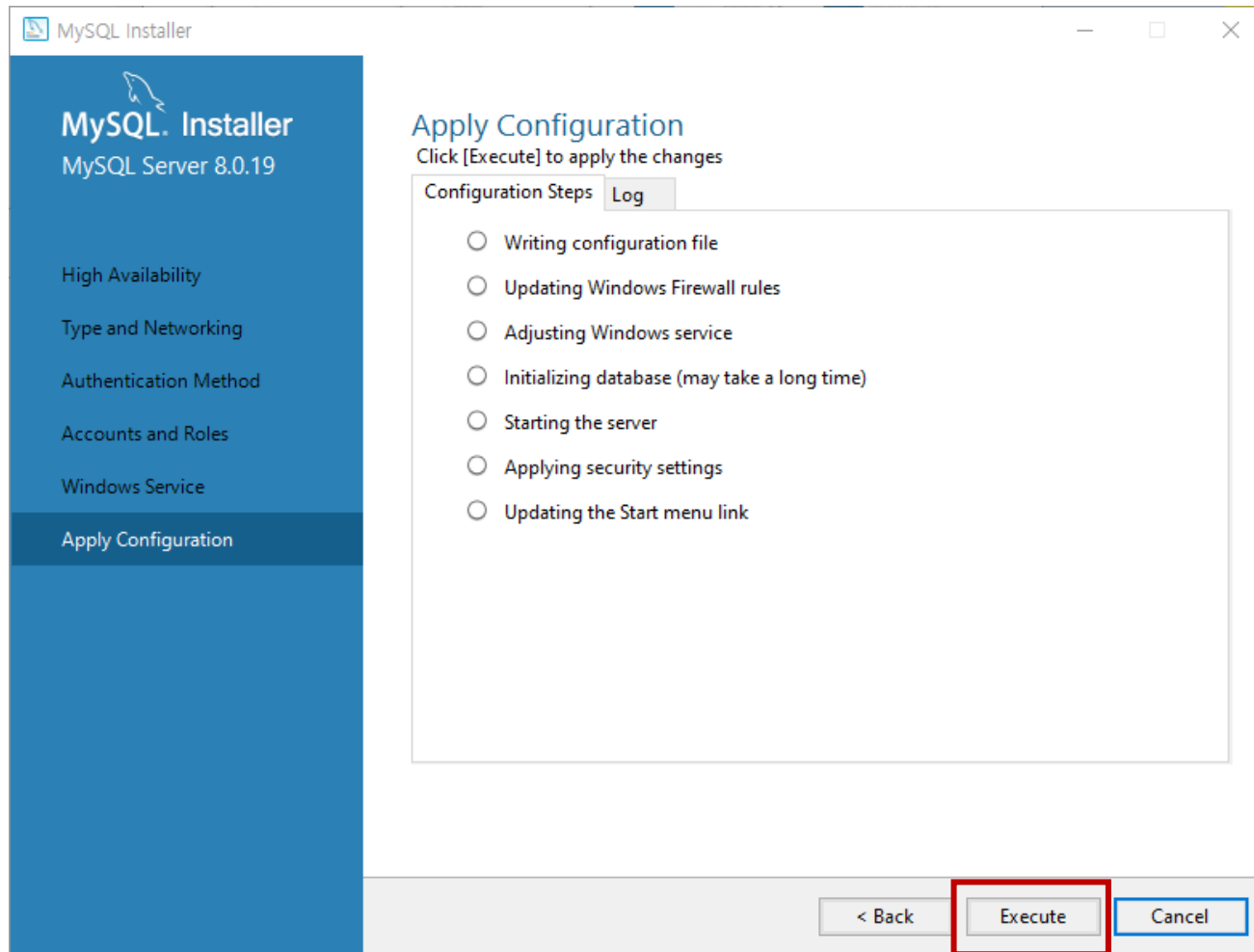
☒ Standard System Account  
Recommended for most scenarios.

☐ Custom User  
An existing user account can be selected for advanced scenarios.

< Back   **Next >**   Cancel

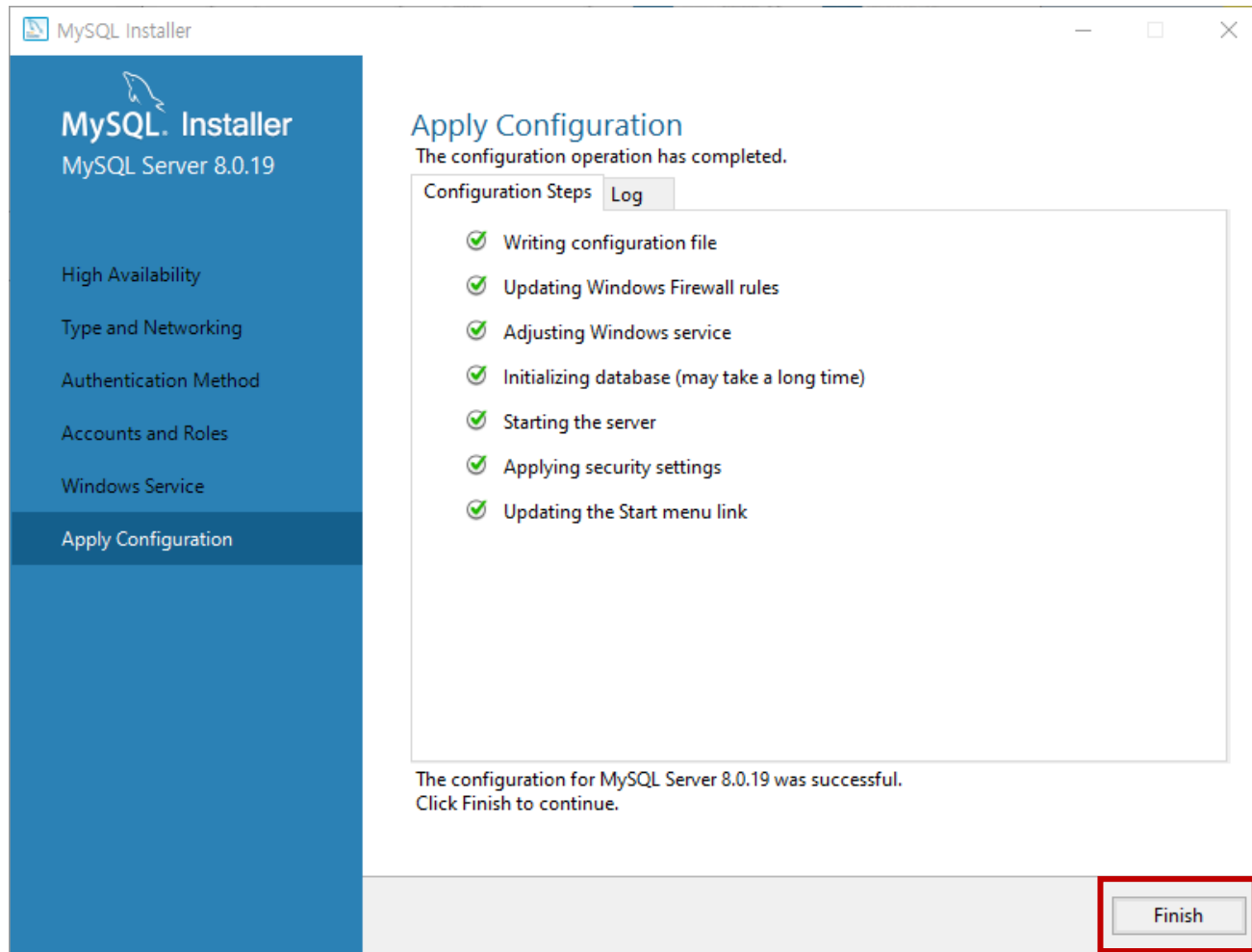
# Step 4: Installing MySQL Server

➤ Click 'Execute.'



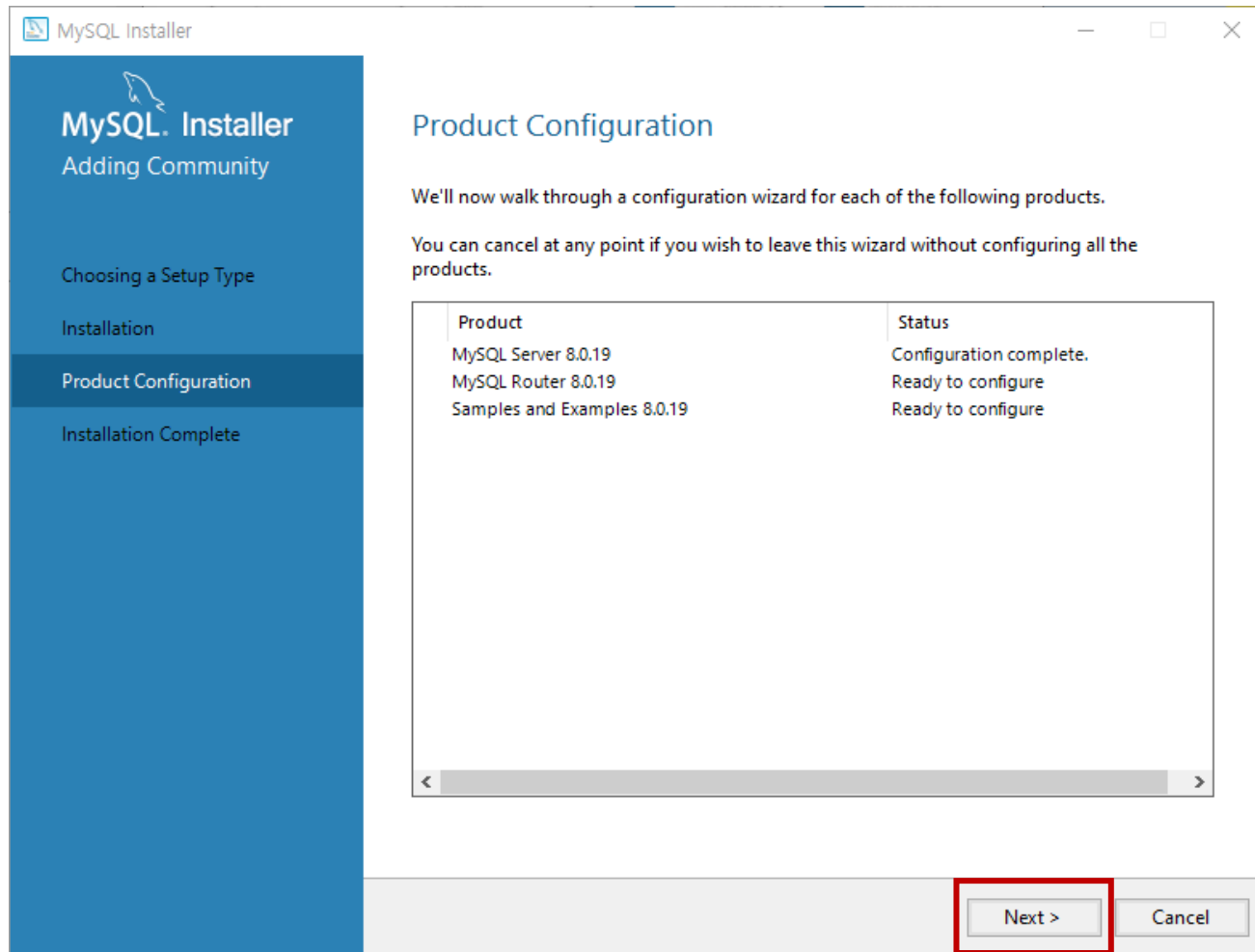
# Step 4: Installing MySQL Server

➤ Click 'Finish' if the installation is complete.



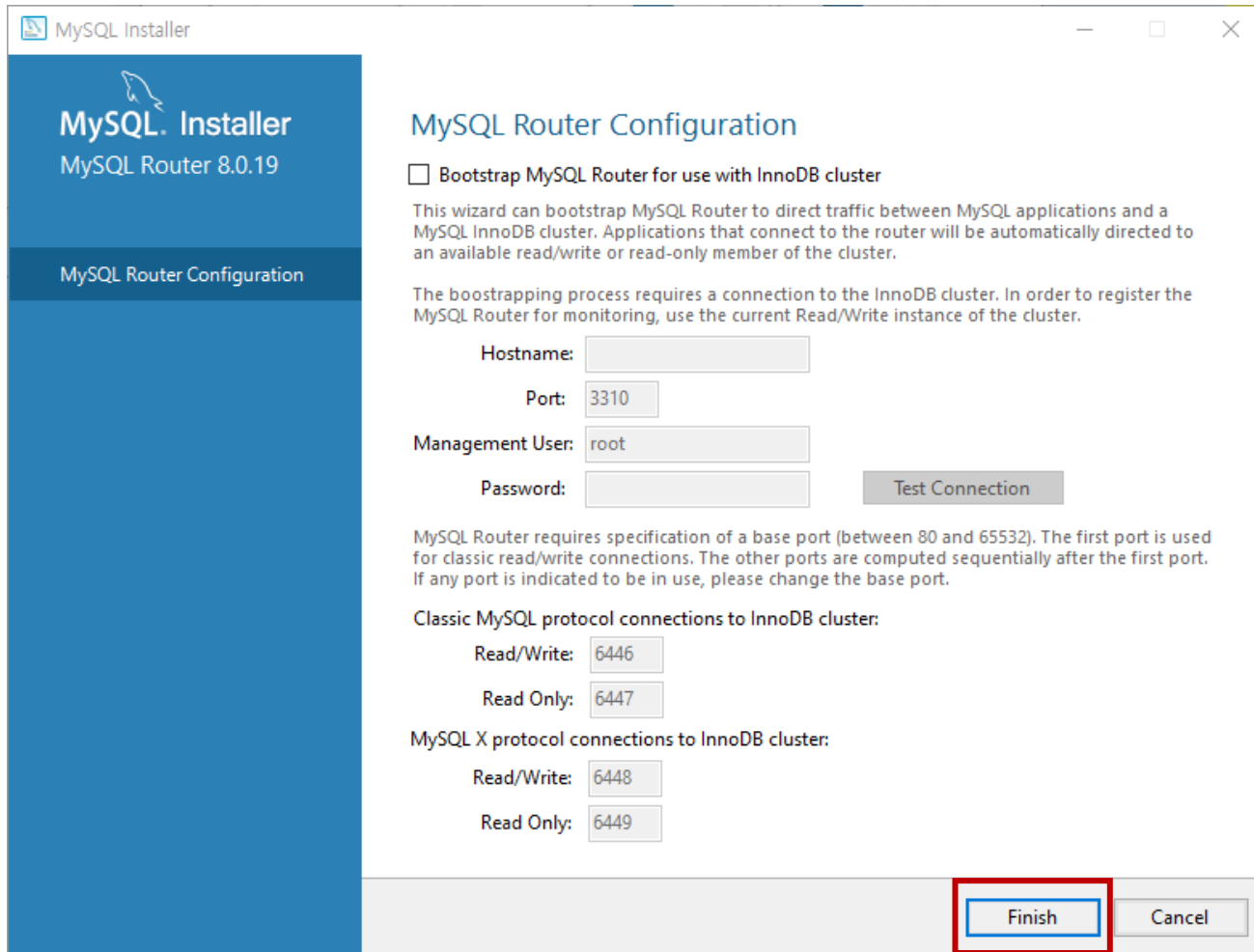
# Step 5: Installing MySQL Router

➤ Click 'Next.'



# Step 5: Installing MySQL Router

➤ Click 'Finish.'



The screenshot shows the 'MySQL Router Configuration' window of the MySQL Installer. The window has a blue sidebar on the left with the MySQL logo and the text 'MySQL. Installer' and 'MySQL Router 8.0.19'. The main area is white and contains the following configuration options:

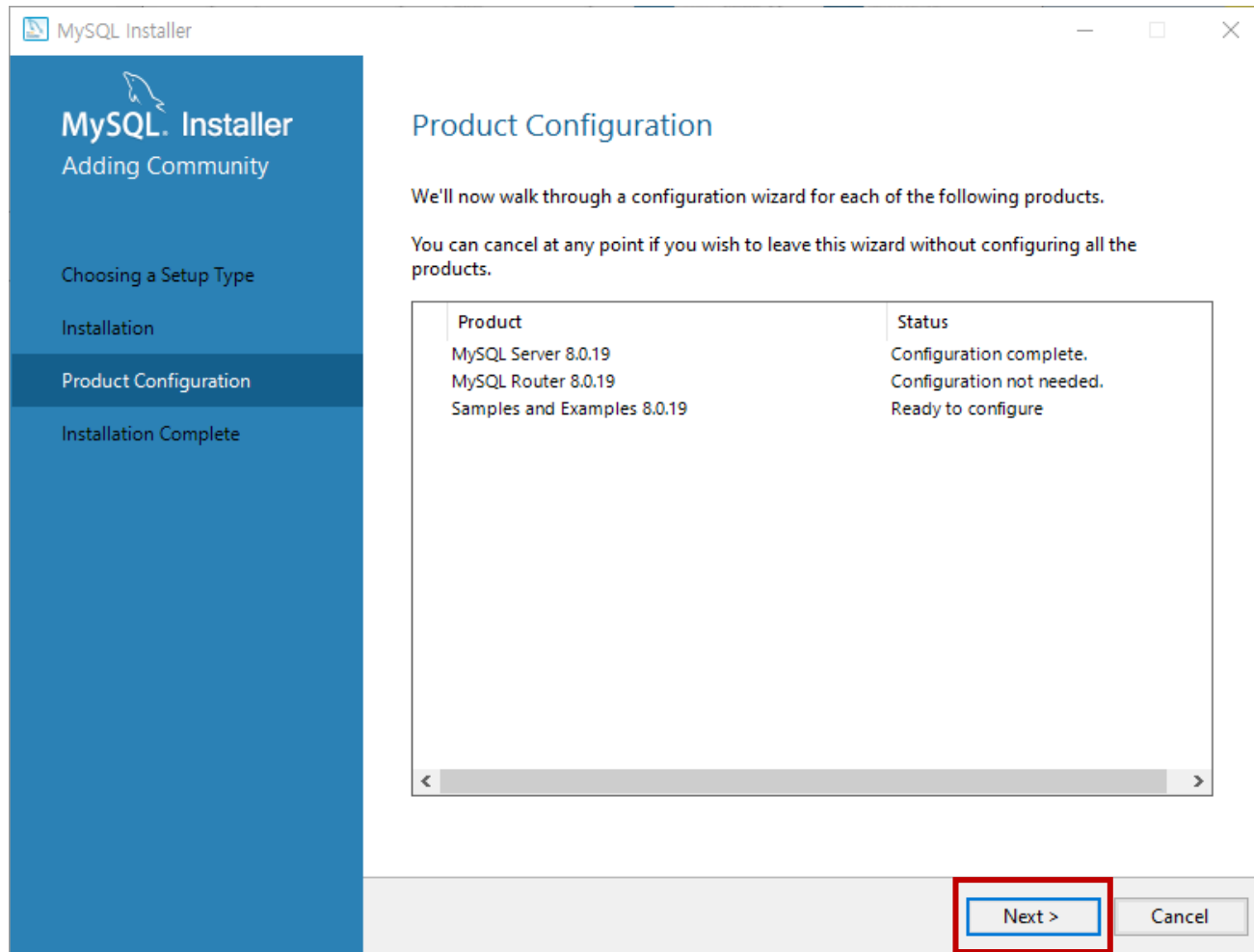
- ☐ Bootstrap MySQL Router for use with InnoDB cluster
- This wizard can bootstrap MySQL Router to direct traffic between MySQL applications and a MySQL InnoDB cluster. Applications that connect to the router will be automatically directed to an available read/write or read-only member of the cluster.
- The bootstrapping process requires a connection to the InnoDB cluster. In order to register the MySQL Router for monitoring, use the current Read/Write instance of the cluster.
- Hostname:
- Port:
- Management User:
- Password:
- 
- MySQL Router requires specification of a base port (between 80 and 65532). The first port is used for classic read/write connections. The other ports are computed sequentially after the first port. If any port is indicated to be in use, please change the base port.
- Classic MySQL protocol connections to InnoDB cluster:
  - Read/Write:
  - Read Only:
- MySQL X protocol connections to InnoDB cluster:
  - Read/Write:
  - Read Only:

At the bottom right, there are two buttons: 'Finish' and 'Cancel'. The 'Finish' button is highlighted with a red rectangle.

# Step 6: Configuration Setting

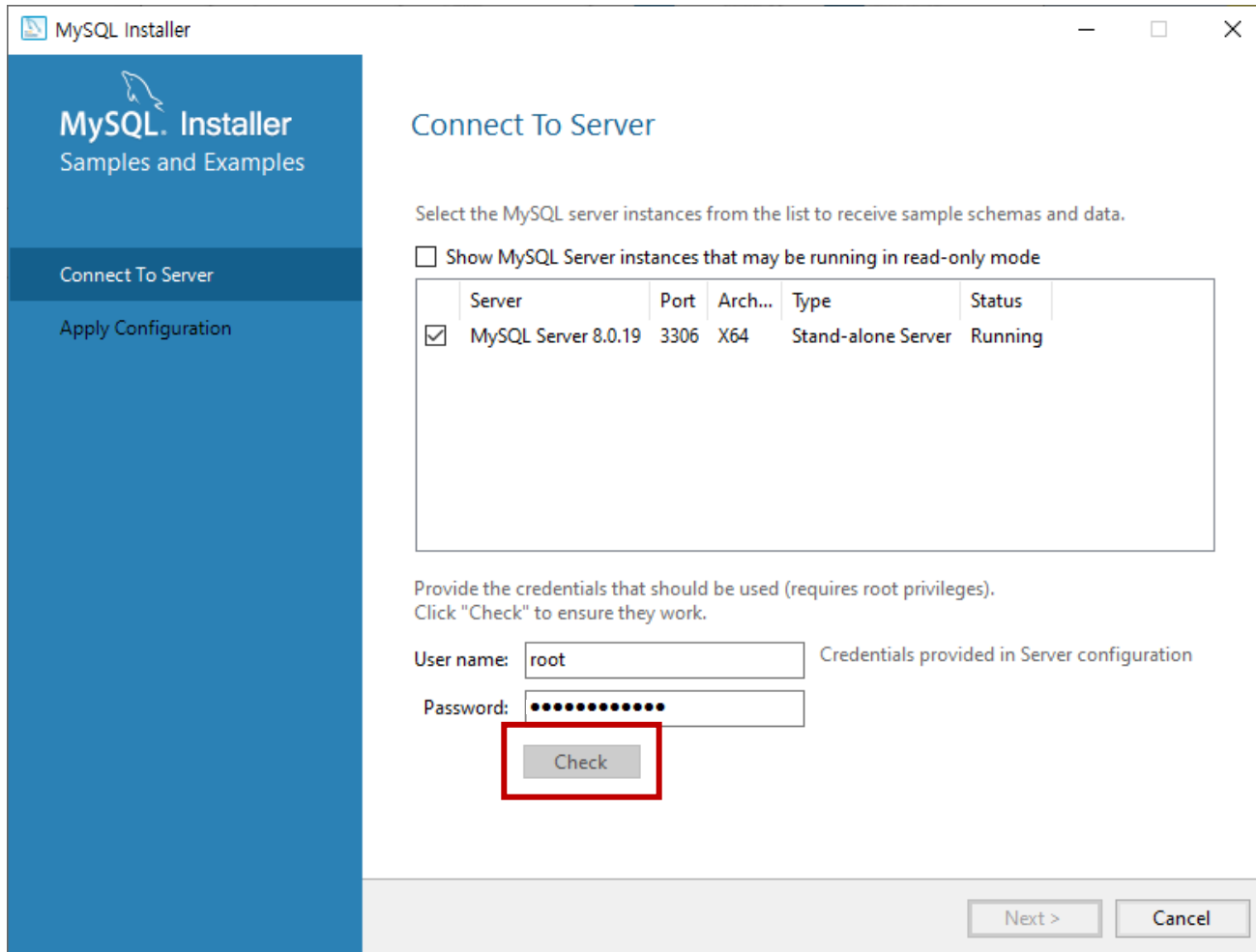


➤ Click 'Next.'



# Step 6: Configuration Setting

- Set user name as 'root' and enter the 'password.'
- Click 'Check.'



MySQL Installer

MySQL. Installer  
Samples and Examples

Connect To Server

Apply Configuration

### Connect To Server

Select the MySQL server instances from the list to receive sample schemas and data.

☐ Show MySQL Server instances that may be running in read-only mode

	Server	Port	Arch...	Type	Status
<input checked="" type="checkbox"/>	MySQL Server 8.0.19	3306	X64	Stand-alone Server	Running

Provide the credentials that should be used (requires root privileges).  
Click "Check" to ensure they work.

User name:  Credentials provided in Server configuration

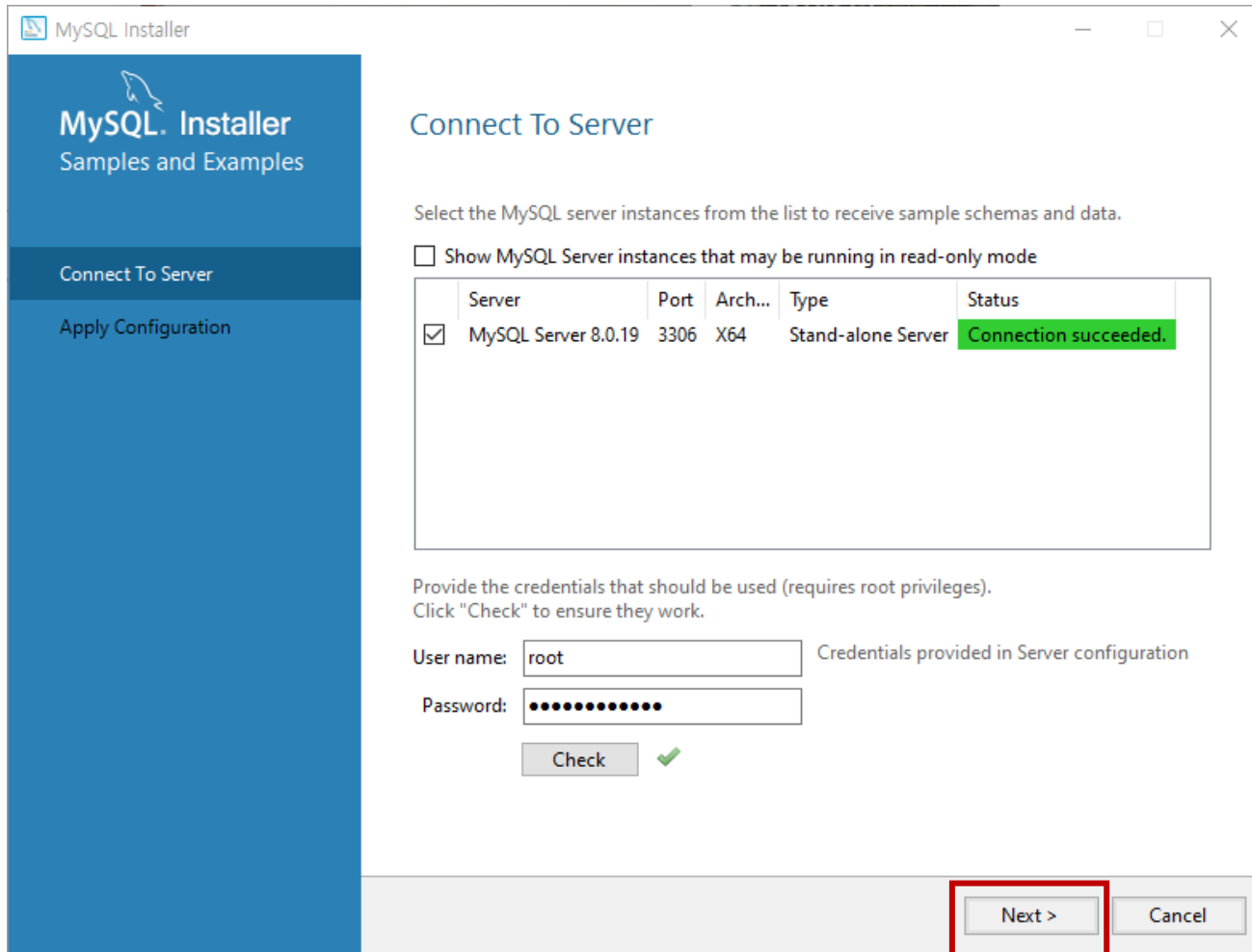
Password:

**Check**

Next > Cancel

# Step 6: Configuration Setting

➤ If all connections succeeded, click 'Next.'



MySQL Installer

MySQL. Installer  
Samples and Examples

Connect To Server

Apply Configuration

### Connect To Server

Select the MySQL server instances from the list to receive sample schemas and data.


☐ Show MySQL Server instances that may be running in read-only mode

	Server	Port	Arch...	Type	Status
<input checked="" type="checkbox"/>	MySQL Server 8.0.19	3306	X64	Stand-alone Server	Connection succeeded.

Provide the credentials that should be used (requires root privileges).  
Click "Check" to ensure they work.

User name:  Credentials provided in Server configuration

Password:

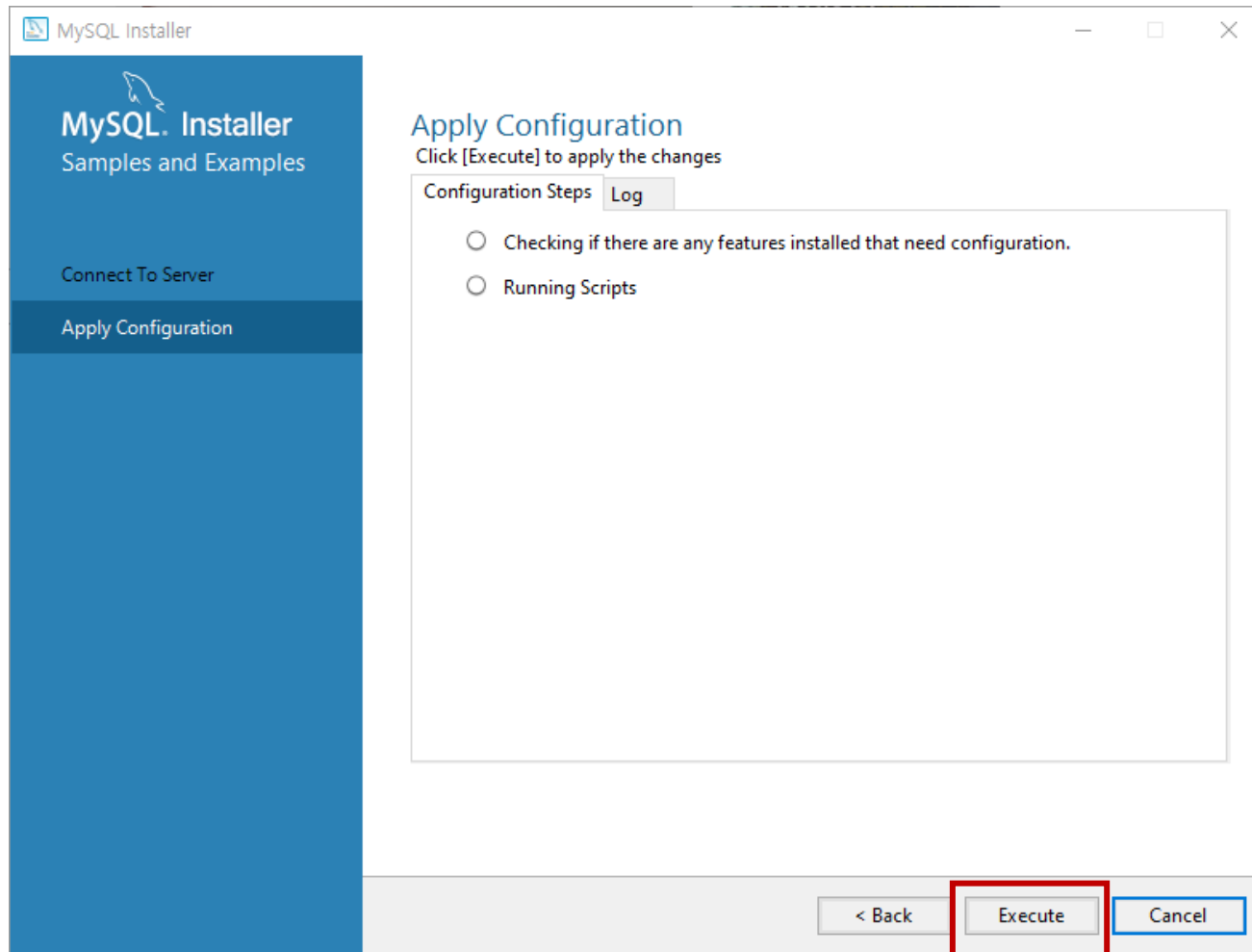




# Step 6: Configuration Setting



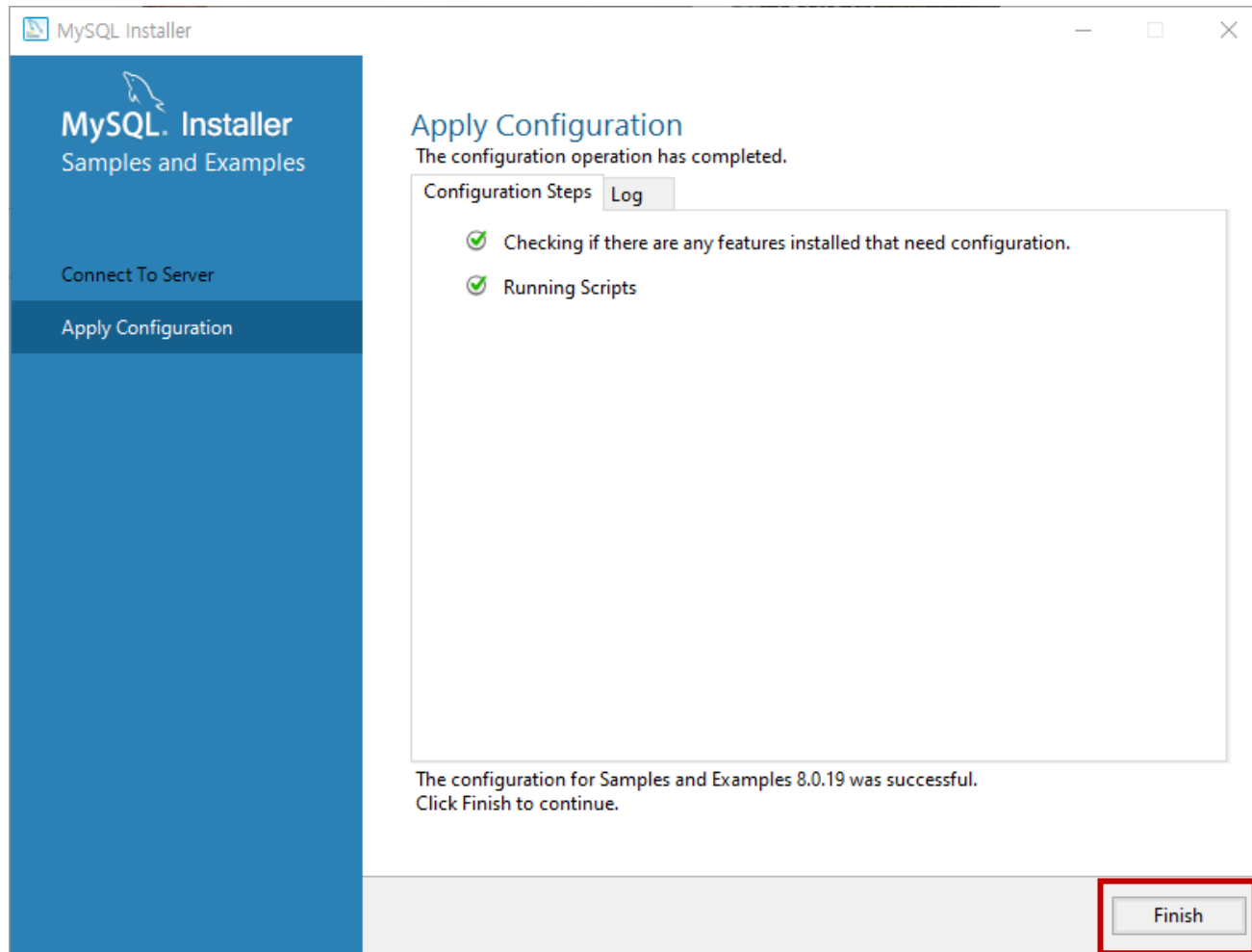
➤ Click 'Execute.'



# Step 6: Configuration Setting



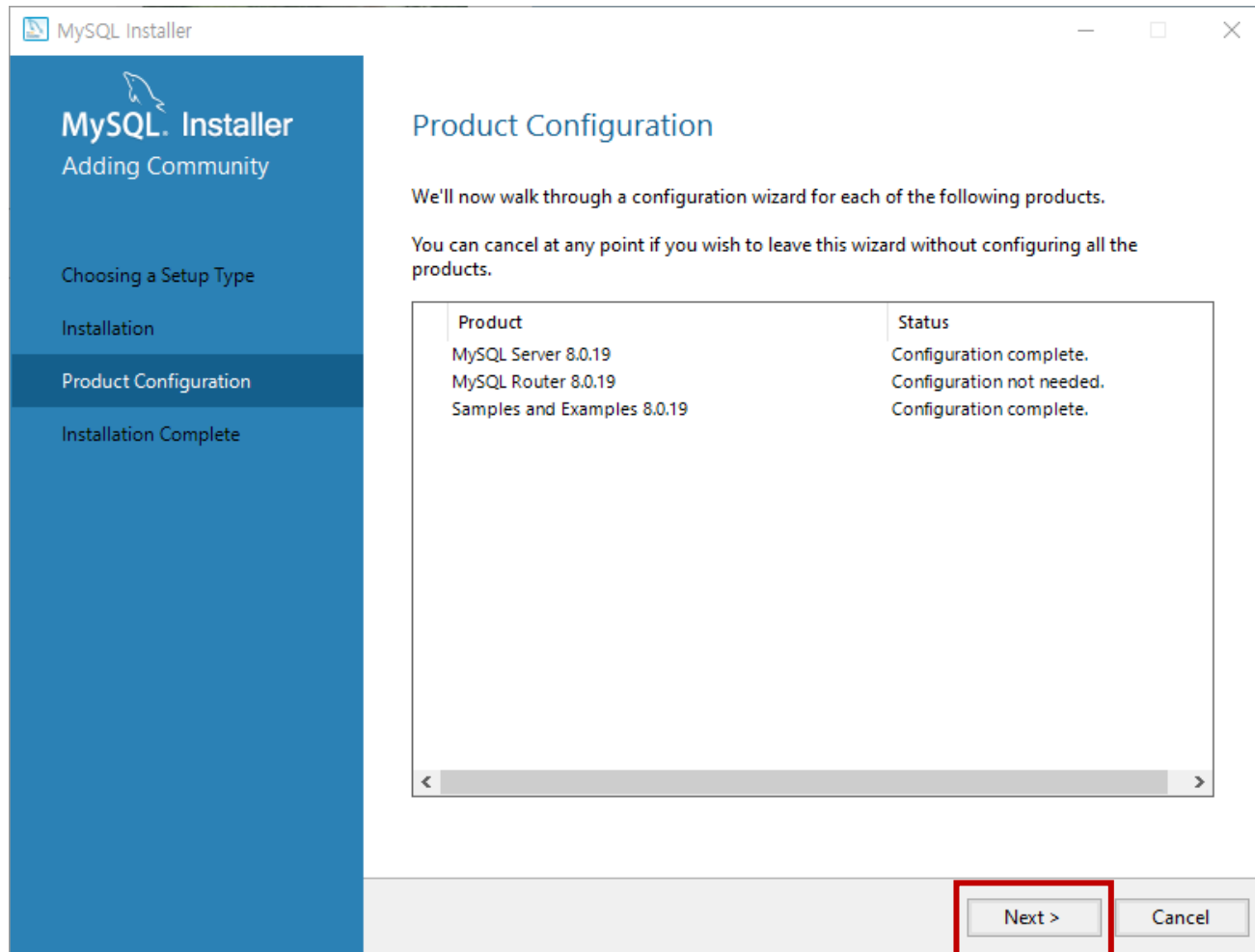
- Click 'Finish' after the configuration steps are completely installed.



# Step 7: Installation Complete



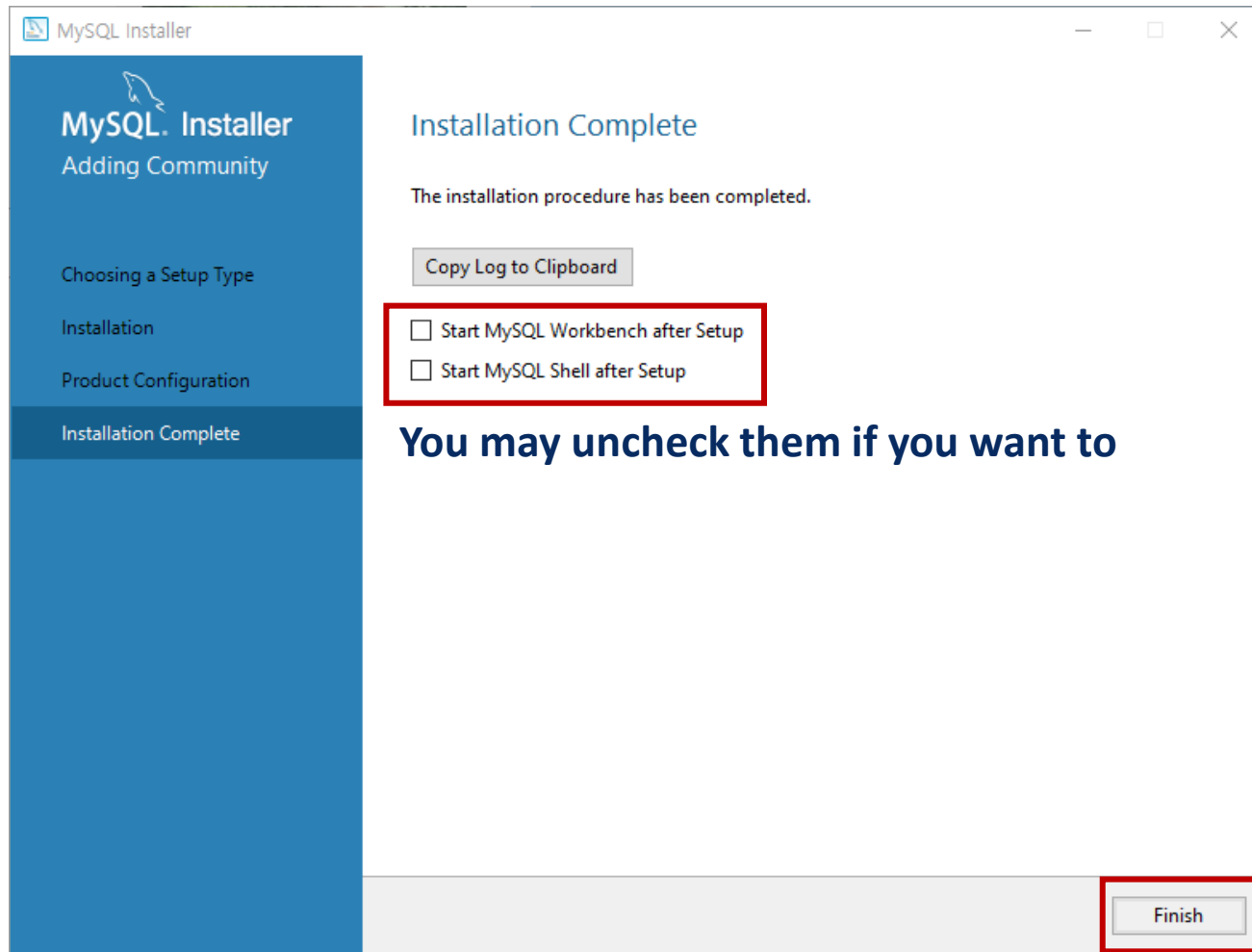
➤ Click 'Next.'



# Step 7: Installation Complete



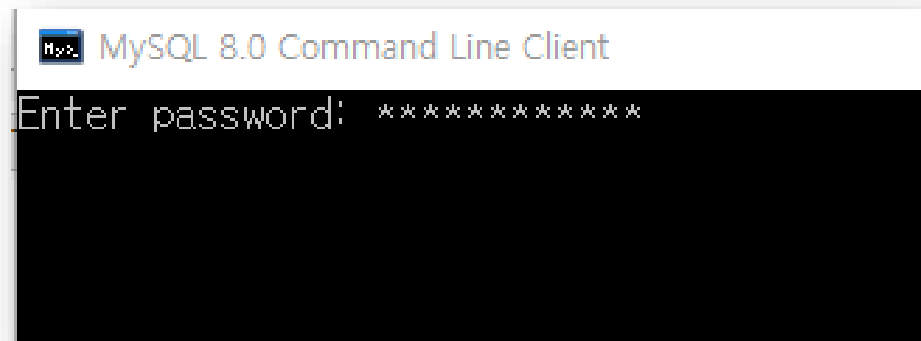
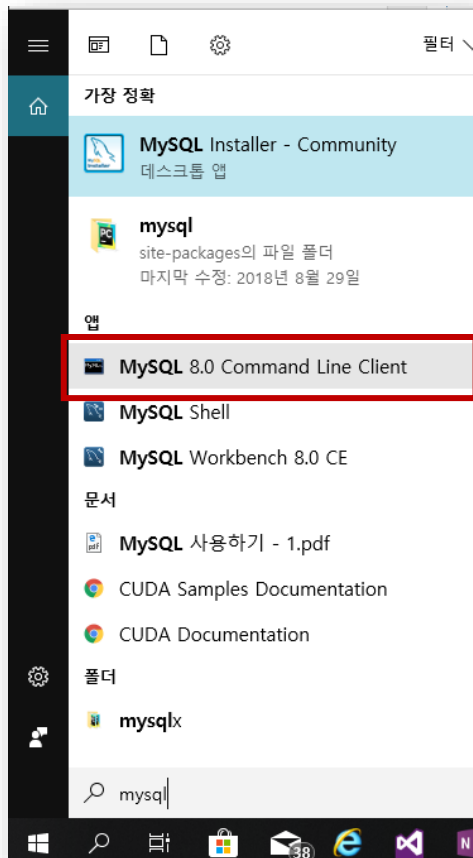
➤ Click 'Finish.'



# Step 8: Testing MySQL



➤ Open “MySQL 8.0 Command Line Client” and enter password.



# Step 8: Testing MySQL

➤ Create a new database named 'test' and check it.

◆ **mysql > CREATE DATABASE test;**

```
mysql> create database test;  
Query OK, 1 row affected (0.06 sec)
```

◆ **mysql > SHOW databases;**

```
mysql> show databases;  
+-----+  
| Database |  
+-----+  
| dbproject_2018000000 |  
| information_schema |  
| mysql |  
| performance_schema |  
| sakila |  
| sys |  
| test |  
| test_2018000000 |  
| world |  
+-----+  
9 rows in set (0.00 sec)
```

the database we just created!

# Step 8: Testing MySQL

➤ Select the database that we just created.

◆ **mysql > USE test;**

```
mysql> use test;  
Database changed
```

◆ **mysql > SHOW tables;**

- Since we didn't create any tables yet, it's an empty set.

```
mysql> show tables;  
Empty set (0.03 sec)
```

# Step 8: Testing MySQL

## ➤ Create a new table 'student.'

- ◆ **mysql** > CREATE TABLE student (.....);

```
mysql> create table student(  
  -> sid INT NOT NULL,  
  -> prof VARCHAR(45) NOT NULL,  
  -> dept VARCHAR(45) NOT NULL,  
  -> grade CHAR(1),  
  -> primary key(sid)  
  -> );  
Query OK, 0 rows affected (0.06 sec)
```

- ◆ **mysql** > DESCRIBE student;

```
mysql> describe student;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| sid   | int(11)       | NO   | PRI | NULL    |       |  
| prof  | varchar(45)   | NO   |     | NULL    |       |  
| dept  | varchar(45)   | NO   |     | NULL    |       |  
| grade | char(1)       | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
4 rows in set (0.03 sec)
```



# Step 8: Testing MySQL

## ➤ Insert tuples into the table.

- ◆ **mysql** > INSERT INTO (table name) VALUES (....)

```
mysql> insert into student values
-> (001, 'JWLEE', 'CS', '1'),
-> (002, 'JPHEO', 'CS', '4'),
-> (003, 'JWLEE', 'SW', '3'),
-> (004, 'JHLEE', 'CS', '4')
-> ;
Query OK, 4 rows affected (0.04 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

# Step 8: Testing MySQL

## ➤ Retrieve tuples from the table.

- ◆ **mysql** > SELECT \* FROM (table name);

```
mysql> select * from student
-> ;
```

sid	prof	dept	grade
1	JWLEE	CS	1
2	JPHEO	CS	4
3	JWLEE	SW	3
4	JHLEE	CS	4

```
4 rows in set (0.00 sec)
```

# Step 8: Testing MySQL

## ➤ Retrieve tuples from the table.

- ◆ **mysql** > SELECT \* FROM (table name) WHERE grade='4';

```
mysql> select * from student where grade='4';
+-----+-----+-----+-----+
| sid | prof | dept | grade |
+-----+-----+-----+-----+
| 2 | JPHEO | CS | 4 |
| 4 | JHLEE | CS | 4 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

# Step 8: Testing MySQL

## ➤ Delete tuples from the table and check it.

- ◆ **mysql** > DELETE FROM (table name) WHERE grade='4';

```
mysql> delete from student where grade='4'  
-> ;  
Query OK, 2 rows affected (0.06 sec)
```

- ◆ **mysql** > SELECT \* FROM (table name);

```
mysql> select * from student;  
+-----+-----+-----+-----+  
| sid | prof  | dept | grade |  
+-----+-----+-----+-----+  
| 1   | JWLEE | CS   | 1     |  
| 3   | JWLEE | SW   | 3     |  
+-----+-----+-----+-----+  
2 rows in set (0.00 sec)
```

# References

## ➤ MySQL Installation

- ◆ <https://dev.mysql.com/>
- ◆ <https://dog-developers.tistory.com/20>

## ➤ 생활코딩 MySQL

- ◆ <https://opentutorials.org/course/2136/12020>

# Q&A

