01. Development Environment

▼ Index

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01. Install

MySQL :: MySQL Community Downloads

https://dev.mysql.com/downloads/

01) MySQL Community Server

(01) Downlaod

https://dev.mysql.com/downloads/mysql/

- Step 01. Download Spec
  - Select Version : 8.0.35
  - Select Operating System : Windows
- Step 02. Go to Download Page 이동

- Step 03. Version & System 확인 후 MSI Installer Download
  - 자연스럽게 mysql-installer-community-8.0.35.0.msi download

(위에 항목은 On-line Installer 같다…)

MySQL Installer 8.0.35

Note: MySQL 8.0 is the final series with MySQL Installer. As of MySQL 8.1, use a MySQL product's MSI or Zip archive for installation. MySQL Server 8.1 and higher also bundle MySQL Configurator, a tool that helps configure MySQL Server.

Select Version:

8.0.35

Select Operating System:

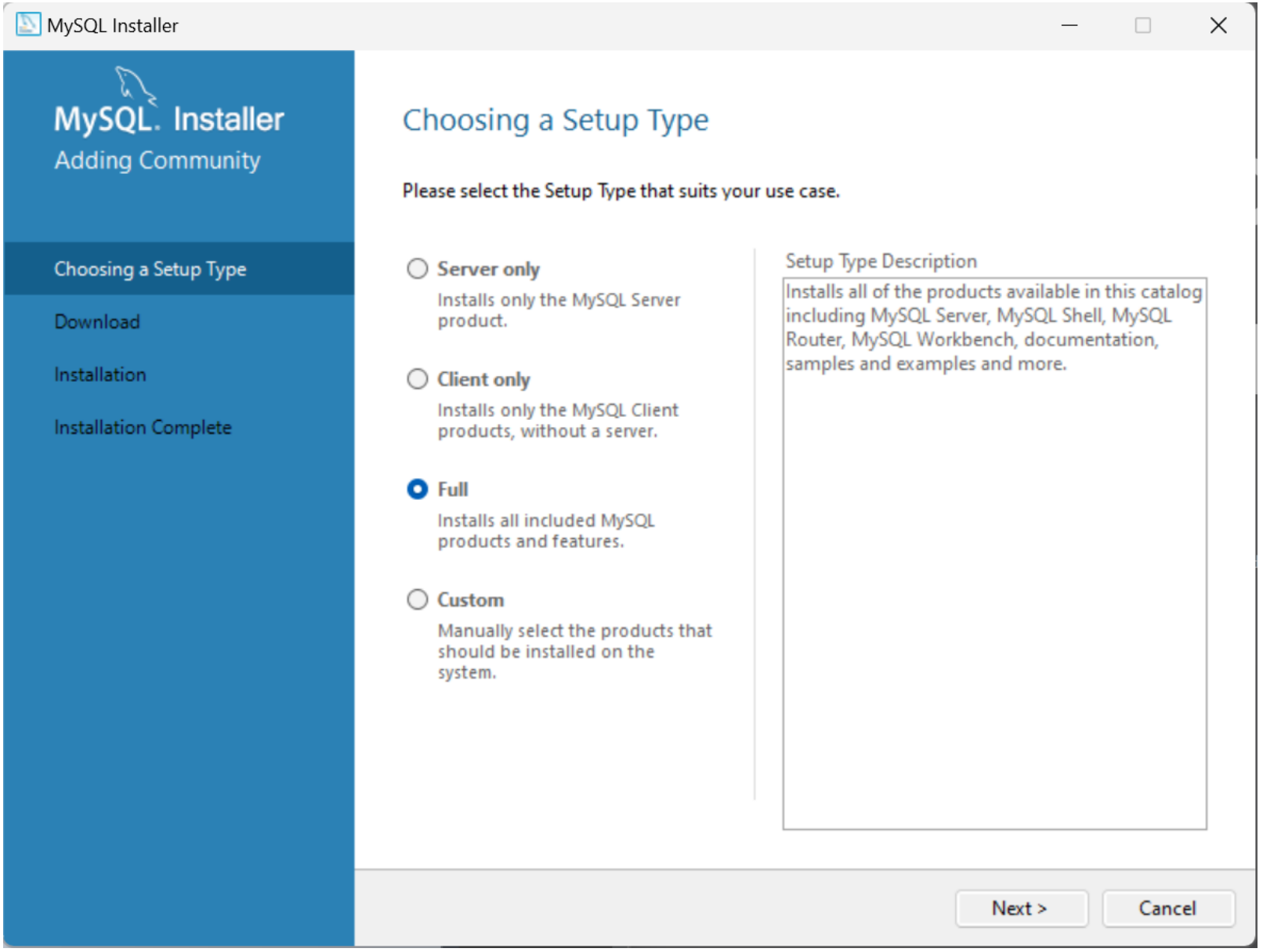
Microsoft Windows

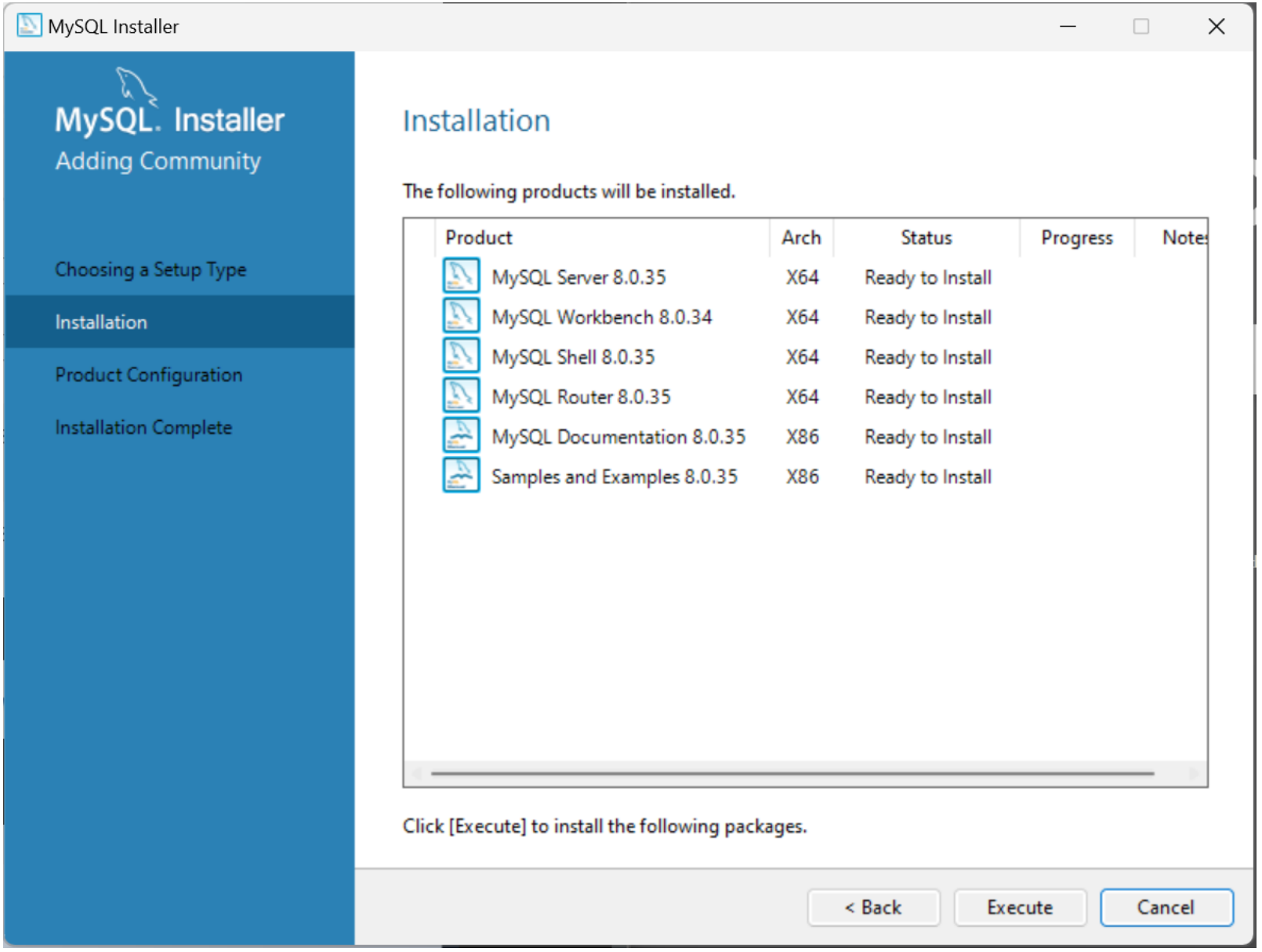
Windows (x86, 32-bit), MSI Installer	8.0.35	2.1M	**Download**
(mysql-installer-web-community-8.0.35.0.msi)	MD5: 214df2ccdf83eb5edc6ca7c115792406 | Signature		
Windows (x86, 32-bit), MSI Installer	8.0.35	288.6M	**Download**
(mysql-installer-community-8.0.35.0.msi)	MD5: 2cfda448a2971b6b5323775ef9e8d012 | Signature		

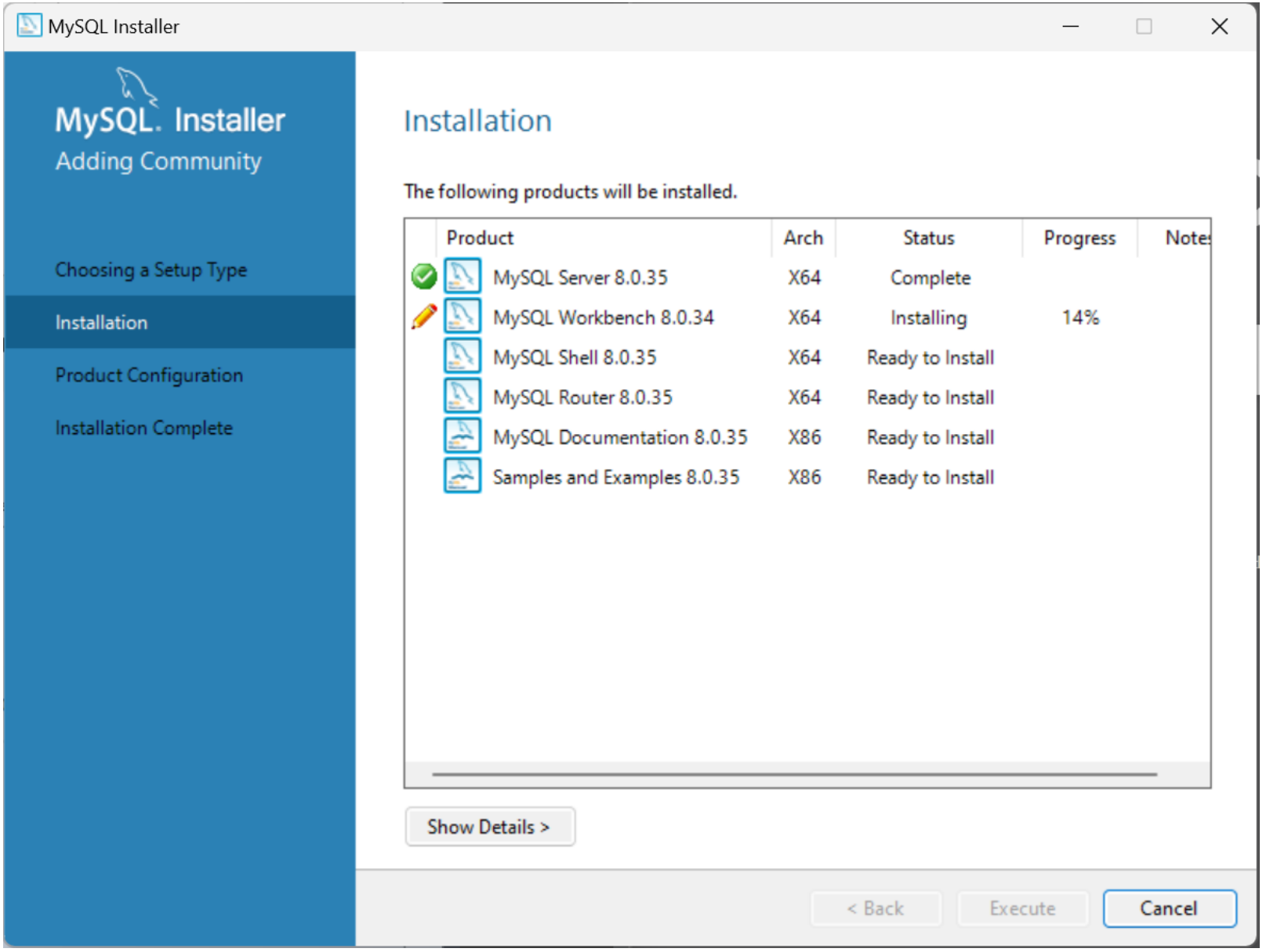
- Download 클릭 시 로그인 필요 화면이 뜨지만 아래 텍스트 버튼으로 PASS!

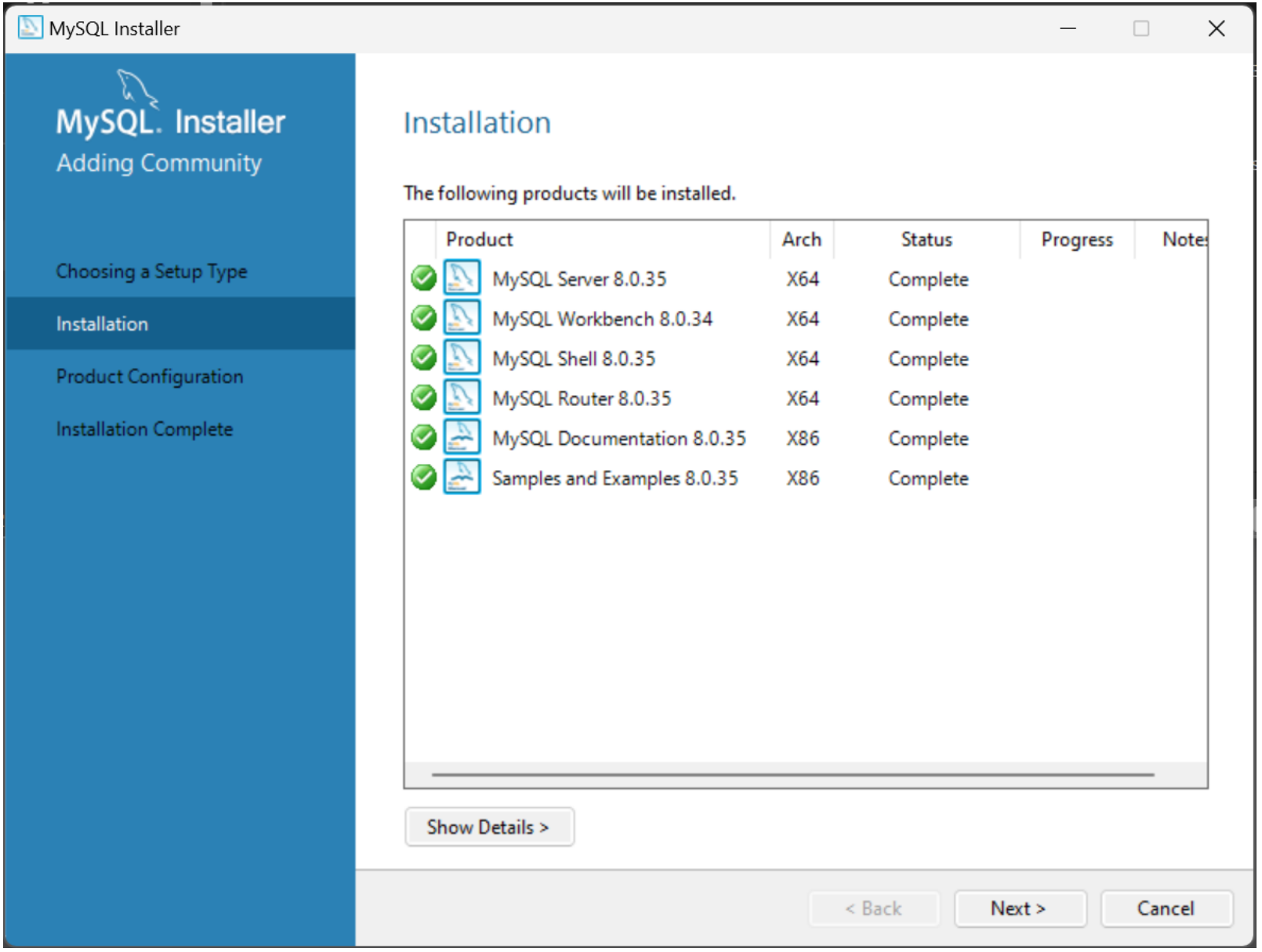
(02) Install

▼ Install Img


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Download
Installation
Installation Complete
Choosing a Setup Type
Please select the Setup Type that suits your use case.
Server only
Installs only the MySQL Server product.
Client only
Installs only the MySQL Client products, without a server.
Full
Installs all included MySQL products and features.
Custom
Manually select the products that should be installed on the system.
Setup Type Description
Installs all of the products available in this catalog including MySQL Server, MySQL Shell, MySQL Router, MySQL Workbench, documentation, samples and examples and more.
Next >
Cancel


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Installation
The following products will be installed.
Product
Arch
Status
Progress
Notes
MySQL Server 8.0.35
X64
Ready to Install
MySQL Workbench 8.0.34
X64
Ready to Install
MySQL Shell 8.0.35
X64
Ready to Install
MySQL Router 8.0.35
X64
Ready to Install
MySQL Documentation 8.0.35
X86
Ready to Install
Samples and Examples 8.0.35
X86
Ready to Install
Click [Execute] to install the following packages.
< Back
Execute
Cancel


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Installation
The following products will be installed.
Product
Arch
Status
Progress
Note
MySQL Server 8.0.35
X64
Complete
MySQL Workbench 8.0.34
X64
Installing
14%
MySQL Shell 8.0.35
X64
Ready to Install
MySQL Router 8.0.35
X64
Ready to Install
MySQL Documentation 8.0.35
X86
Ready to Install
Samples and Examples 8.0.35
X86
Ready to Install
Show Details >
< Back
Execute
Cancel


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Installation
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Product
Arch
Status
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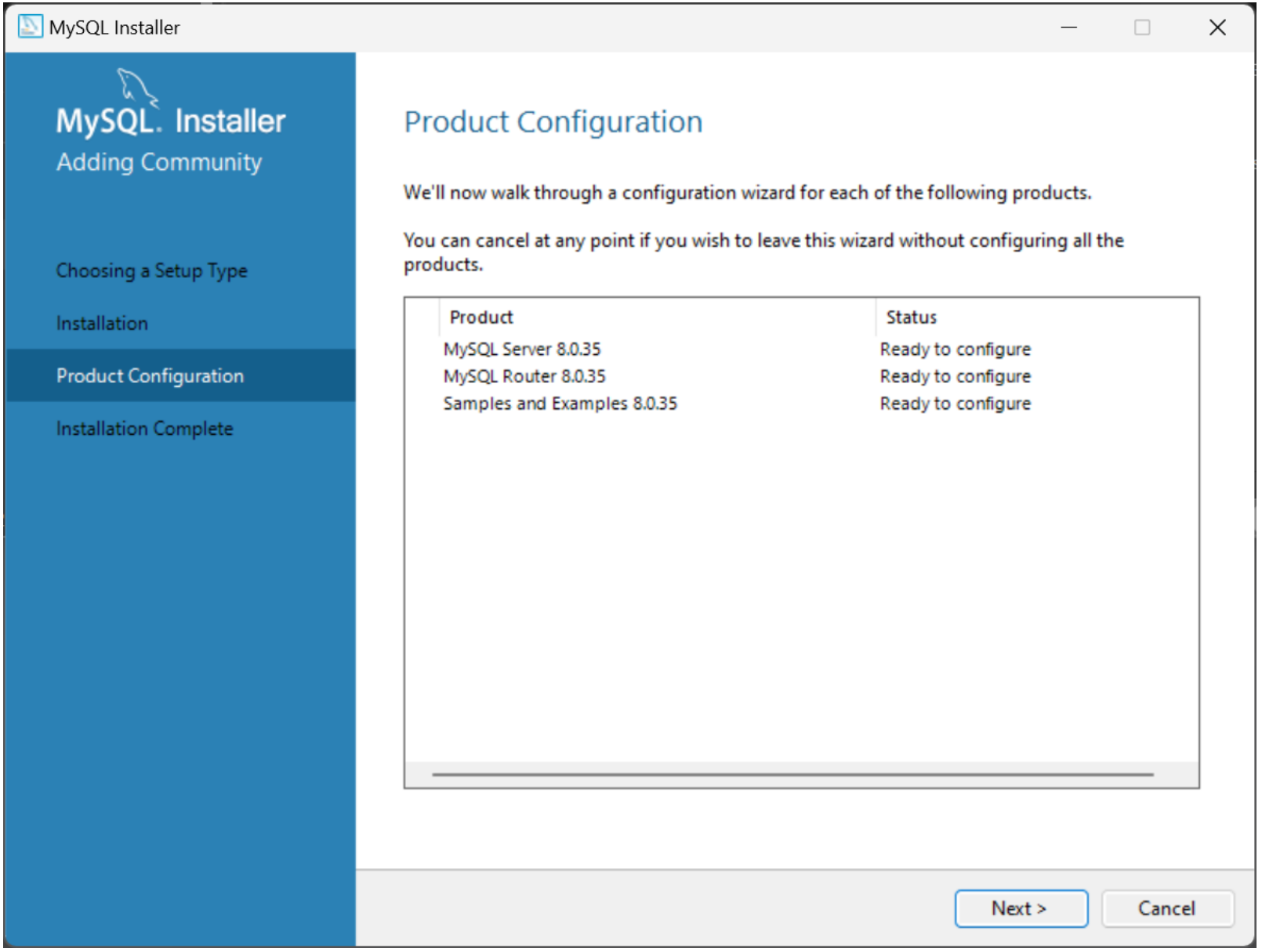
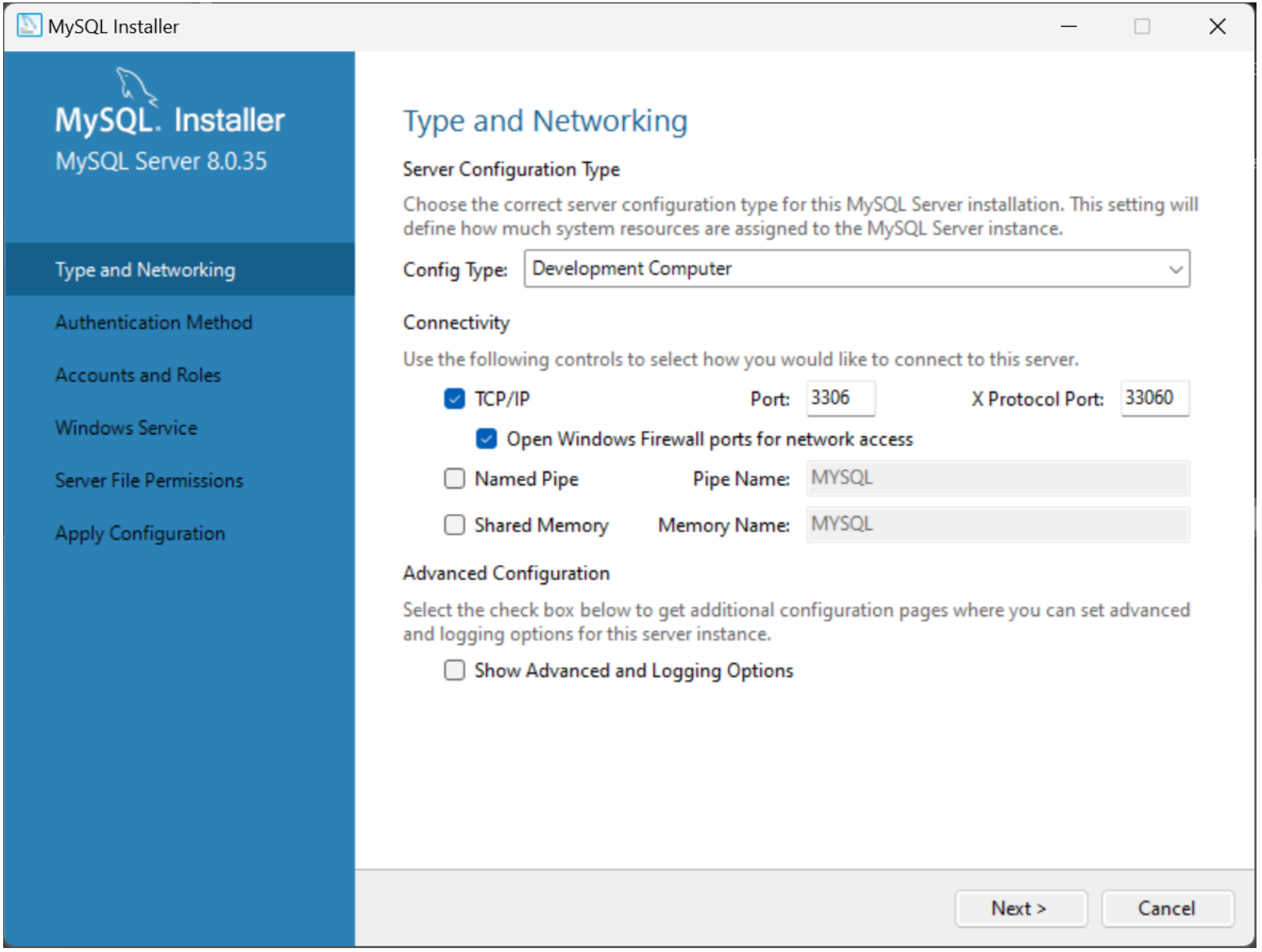
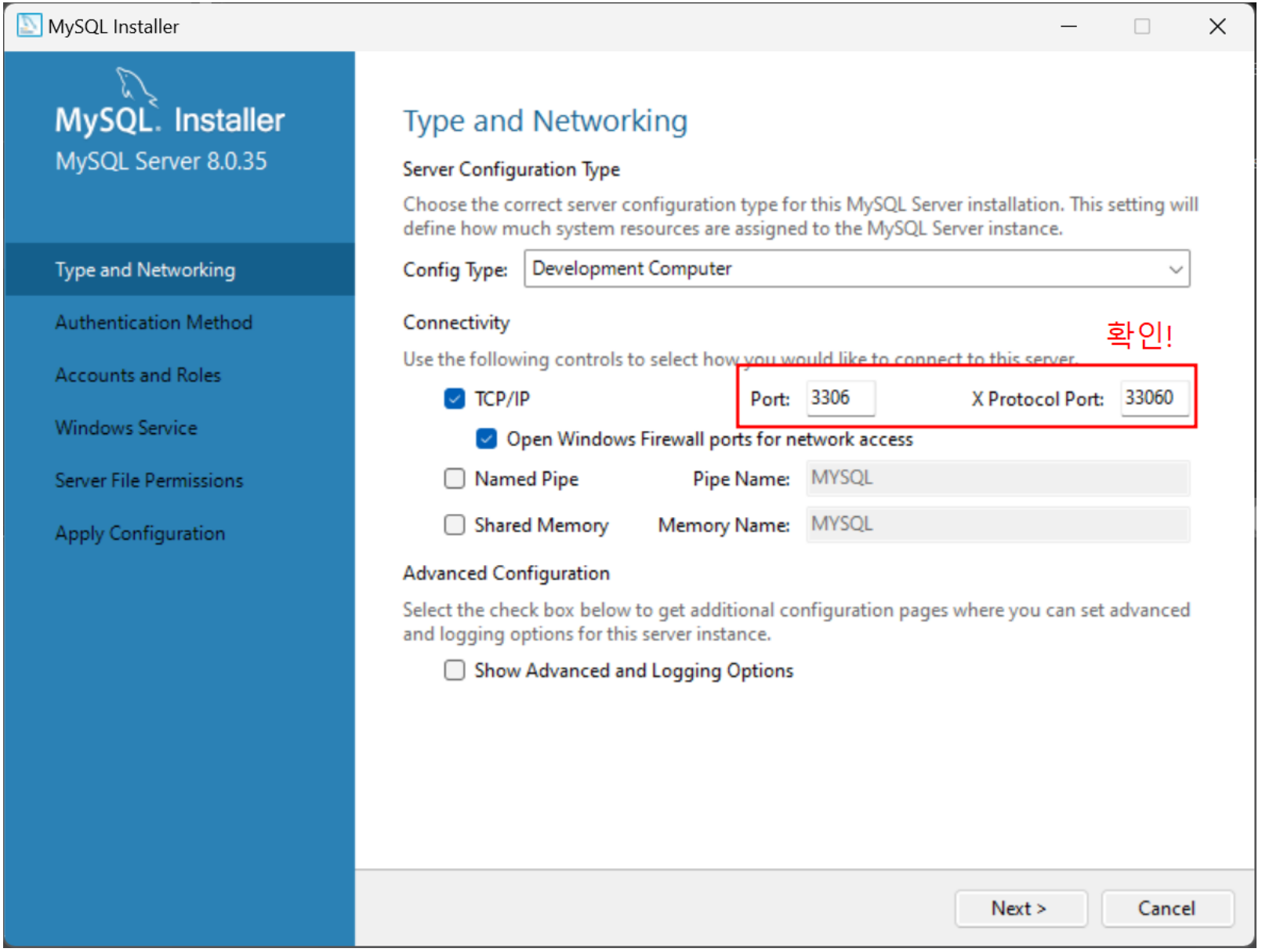
MySQL Shell 8.0.35
X64
Complete
MySQL Router 8.0.35
X64
Complete
MySQL Documentation 8.0.35
X86
Complete
Samples and Examples 8.0.35
X86
Complete
Show Details >
< Back
Next >
Cancel


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 8.0.35
Ready to configure
MySQL Router 8.0.35
Ready to configure
Samples and Examples 8.0.35
Ready to configure
Next >
Cancel


MySQL Installer
MySQL. Installer
MySQL Server 8.0.35
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Type and Networking
Server Configuration Type
Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance.
Config Type: Development Computer
Connectivity
Use the following controls to select how you would like to connect to this server.
TCP/IP
Port: 3306
X Protocol Port: 33060
Open Windows Firewall ports for network access
Named Pipe
Pipe Name: MYSQL
Shared Memory
Memory Name: MYSQL
Advanced Configuration
Select the check box below to get additional configuration pages where you can set advanced and logging options for this server instance.
Show Advanced and Logging Options
Next >
Cancel


MySQL Installer
MySQL. Installer
MySQL Server 8.0.35
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Type and Networking
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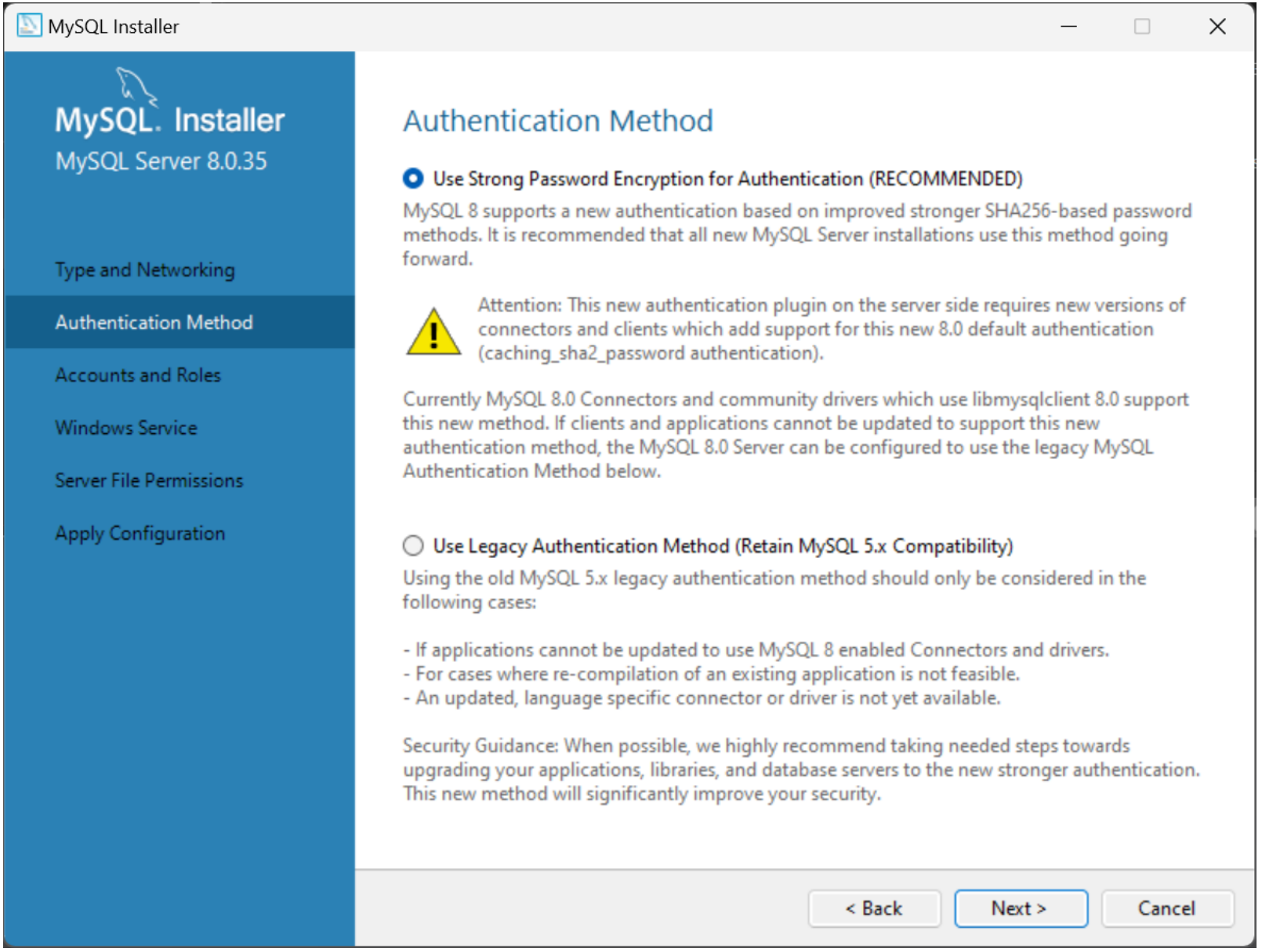
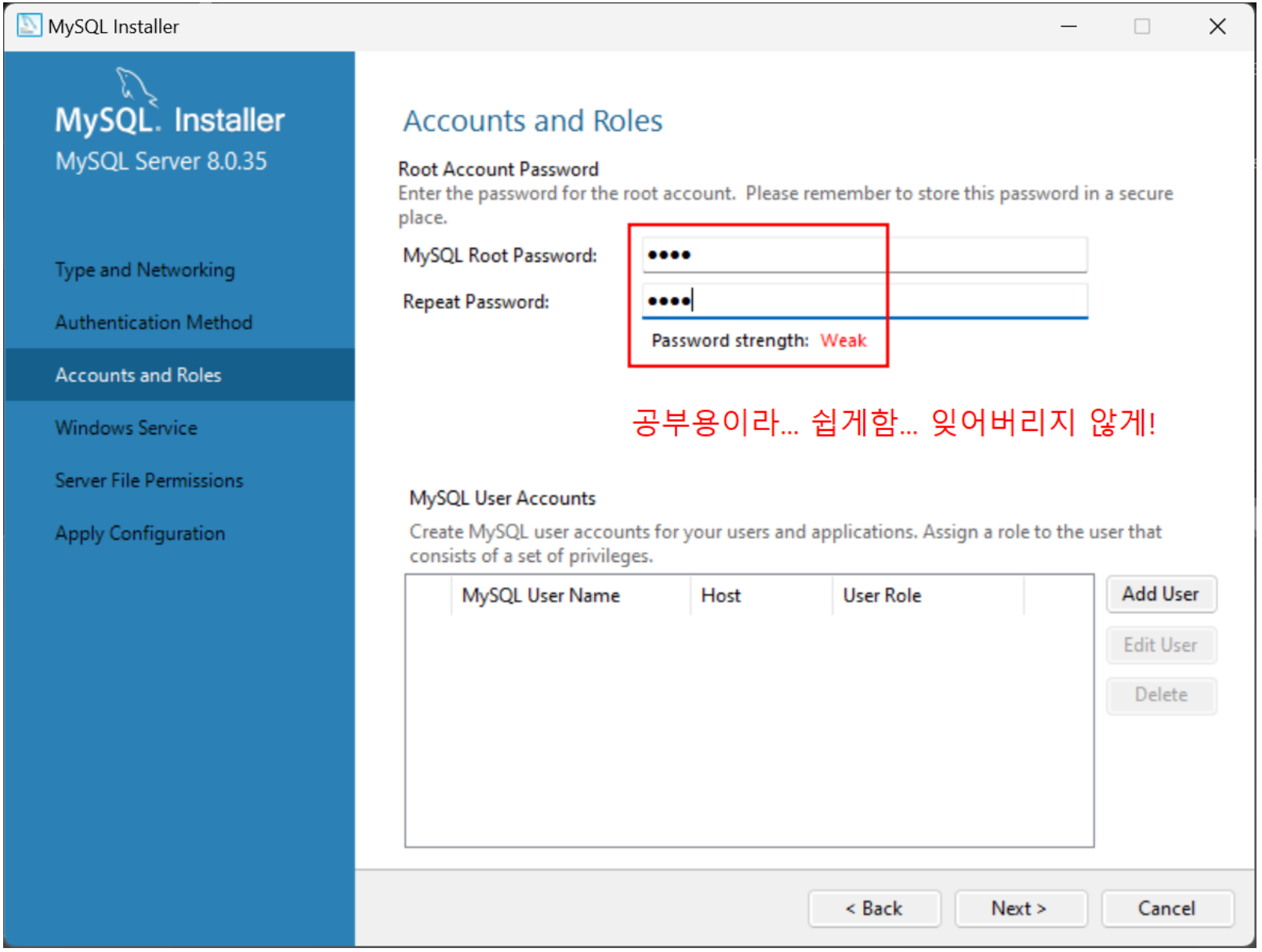
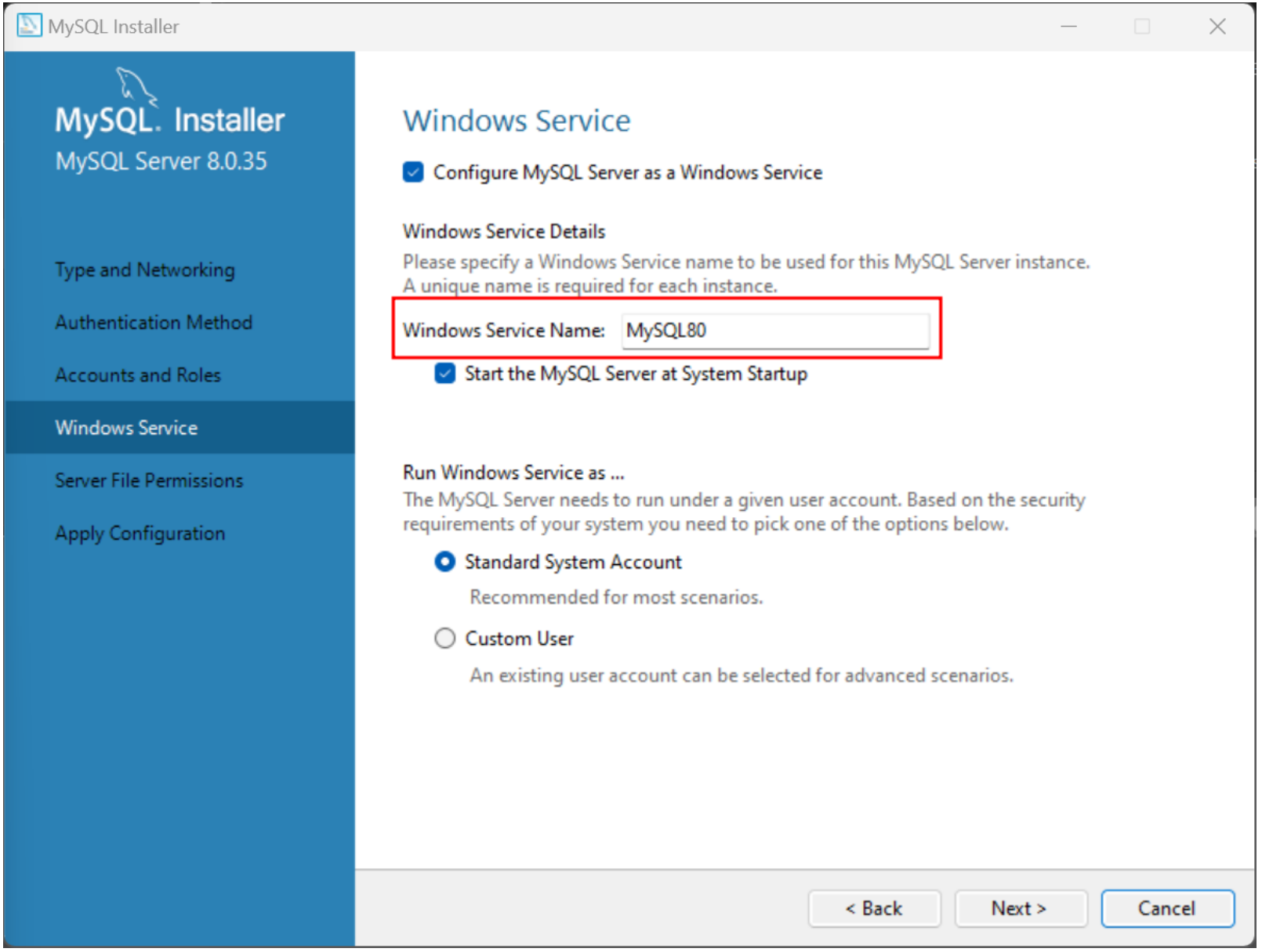
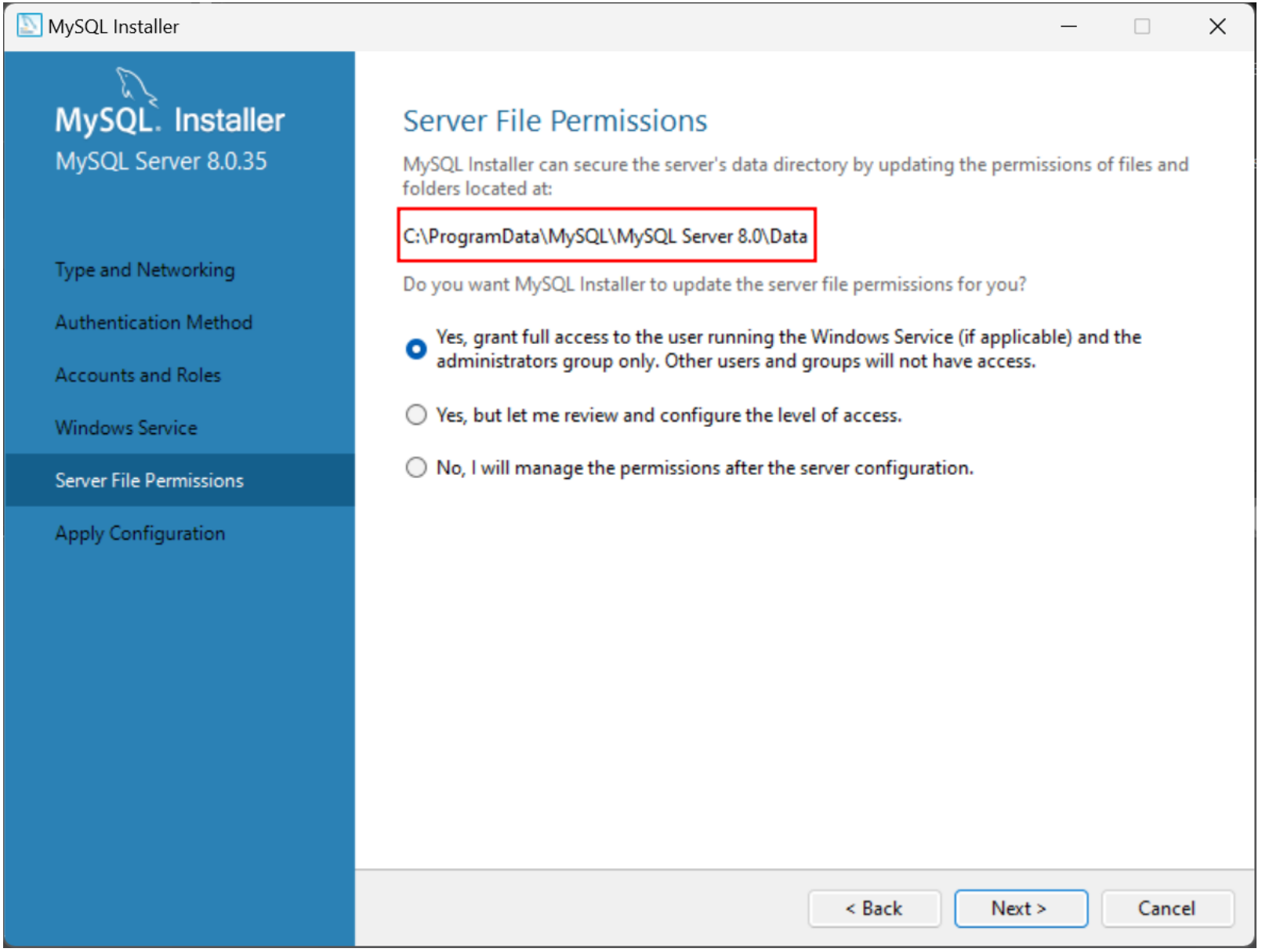
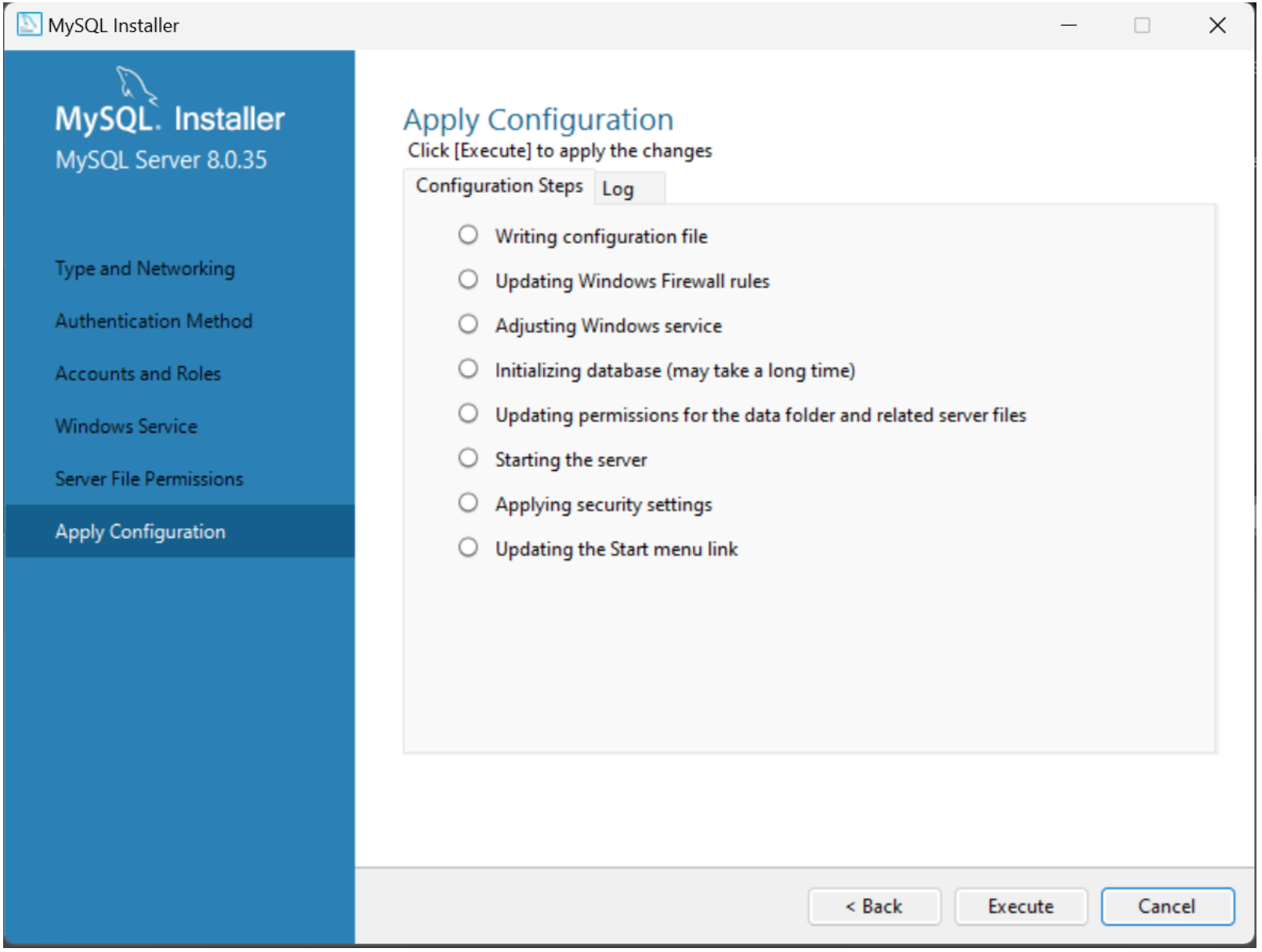
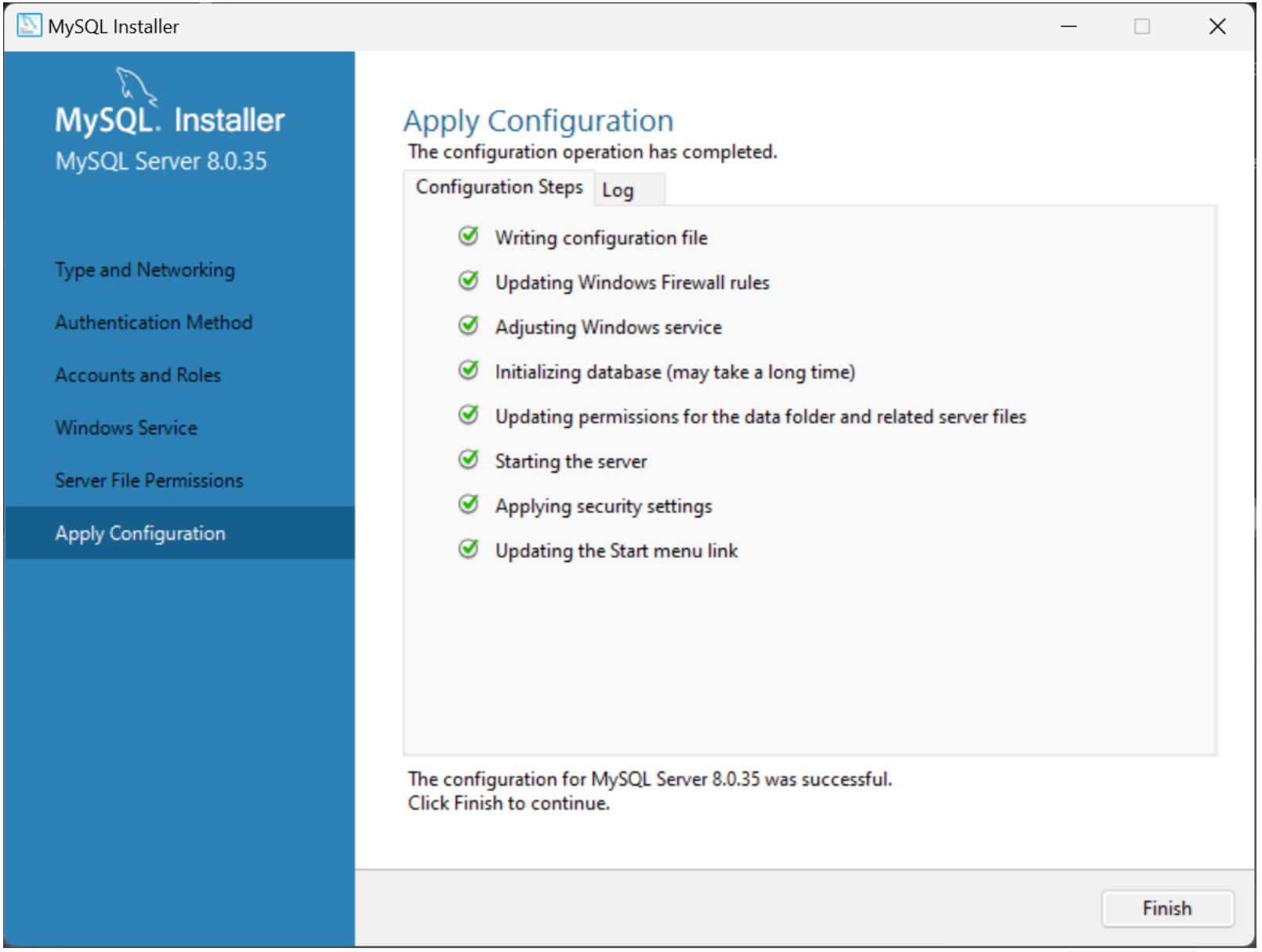

MySQL Installer
MySQL. Installer
MySQL Server 8.0.35
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Authentication Method
Use Strong Password Encryption for Authentication (RECOMMENDED)
MySQL 8 supports a new authentication based on improved stronger SHA256-based password methods. It is recommended that all new MySQL Server installations use this method going forward.
Attention: This new authentication plugin on the server side requires new versions of connectors and clients which add support for this new 8.0 default authentication (caching_sha2_password authentication).
Currently MySQL 8.0 Connectors and community drivers which use libmysqlclient 8.0 support this new method. If clients and applications cannot be updated to support this new authentication method, the MySQL 8.0 Server can be configured to use the legacy MySQL Authentication Method below.
Use Legacy Authentication Method (Retain MySQL 5.x Compatibility)
Using the old MySQL 5.x legacy authentication method should only be considered in the following cases:
- If applications cannot be updated to use MySQL 8 enabled Connectors and drivers.
- For cases where re-compilation of an existing application is not feasible.
- An updated, language specific connector or driver is not yet available.
Security Guidance: When possible, we highly recommend taking needed steps towards upgrading your applications, libraries, and database servers to the new stronger authentication. This new method will significantly improve your security.
< Back
Next >
Cancel

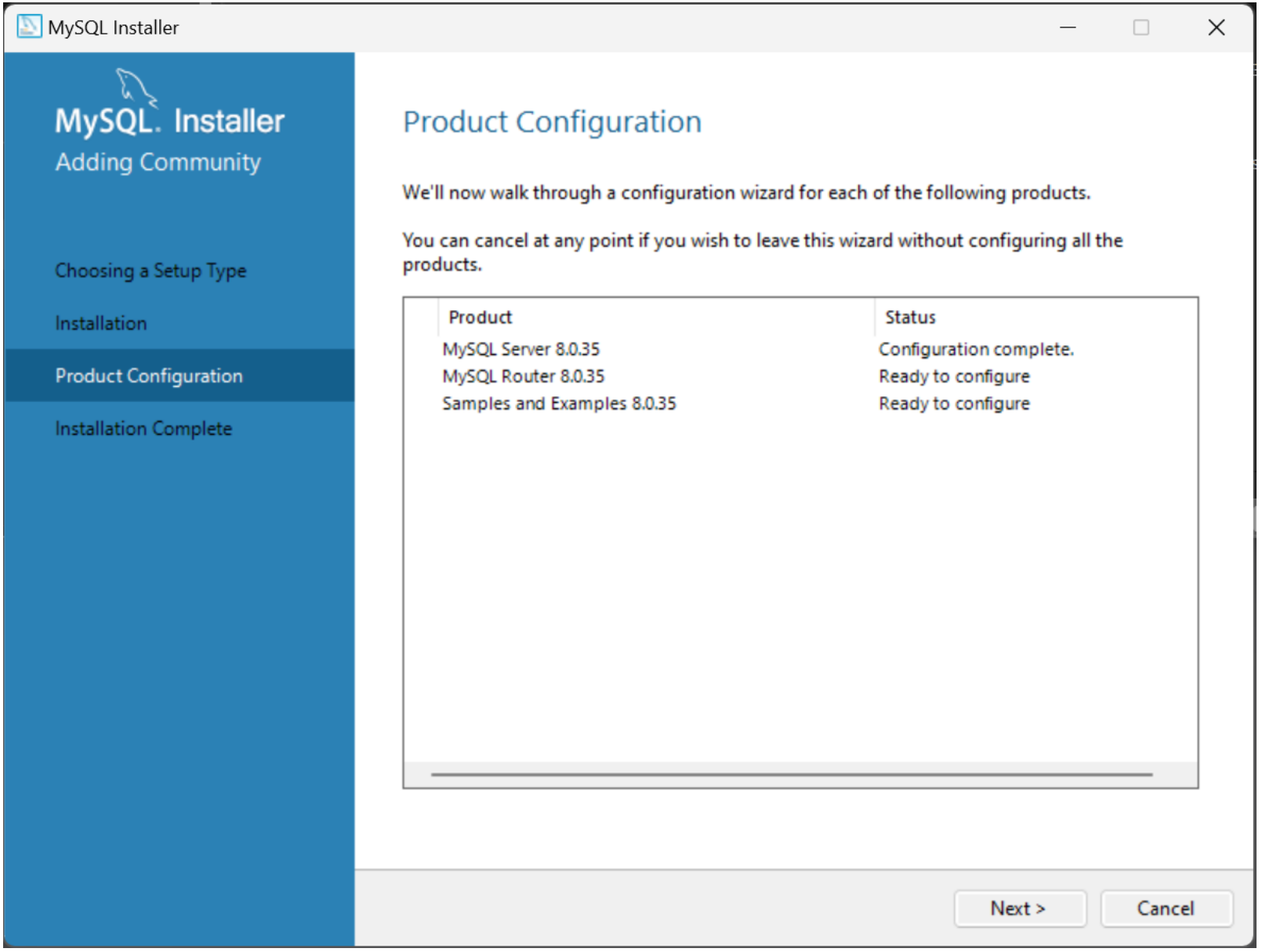

MySQL Installer
MySQL. Installer
MySQL Server 8.0.35
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Accounts and Roles
Root Account Password
Enter the password for the root account. Please remember to store this password in a secure place.
MySQL Root Password:
Repeat Password:
Password strength: Weak
공부용이라... 쉽게함... 잊어버리지 않게!
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

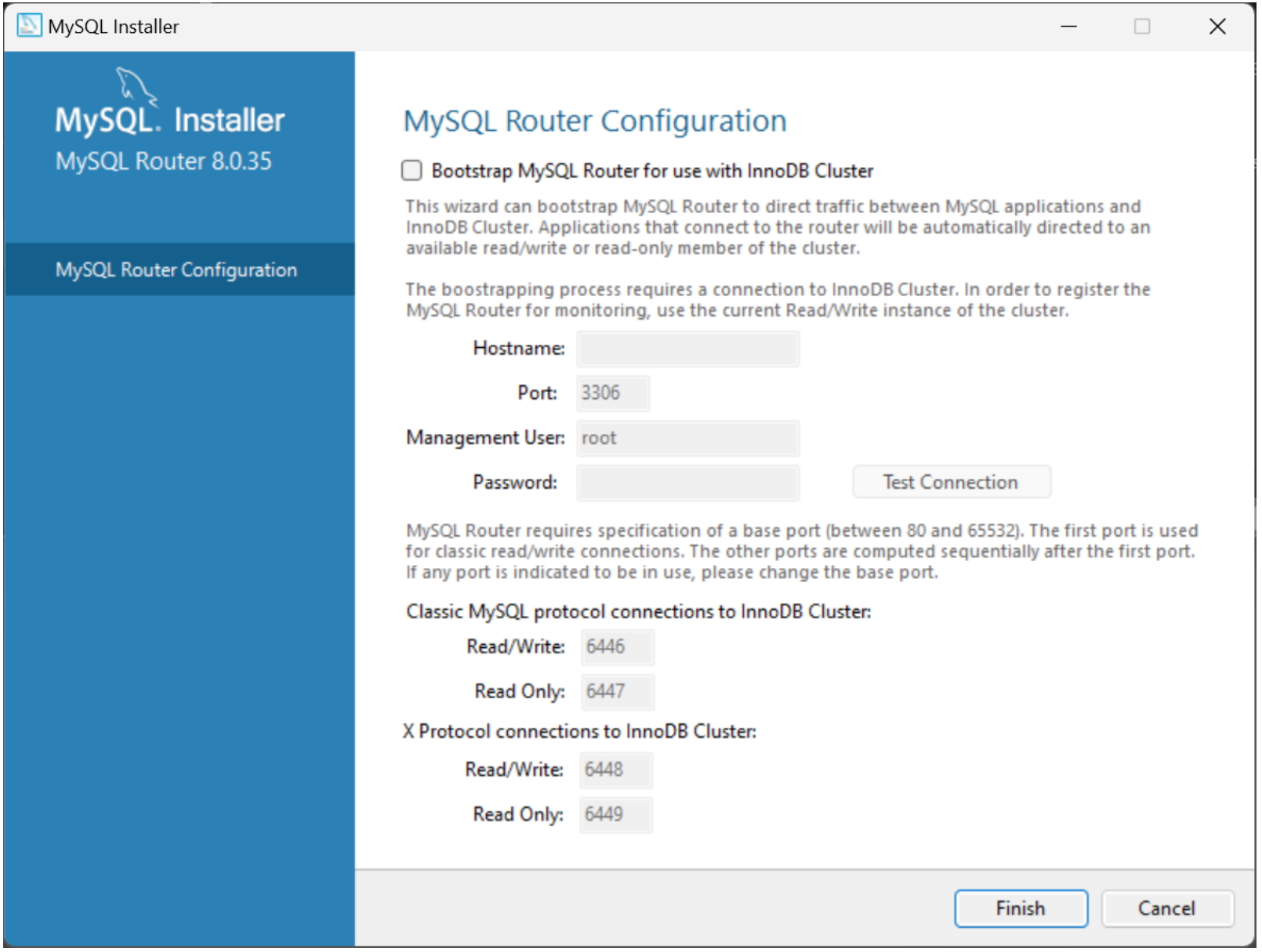

MySQL Installer
MySQL. Installer
MySQL Server 8.0.35
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Windows Service
Configure MySQL Server as a Windows Service
Windows Service Details
Please specify a Windows Service name to be used for this MySQL Server instance.
A unique name is required for each instance.
Windows Service Name: MySQL80
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

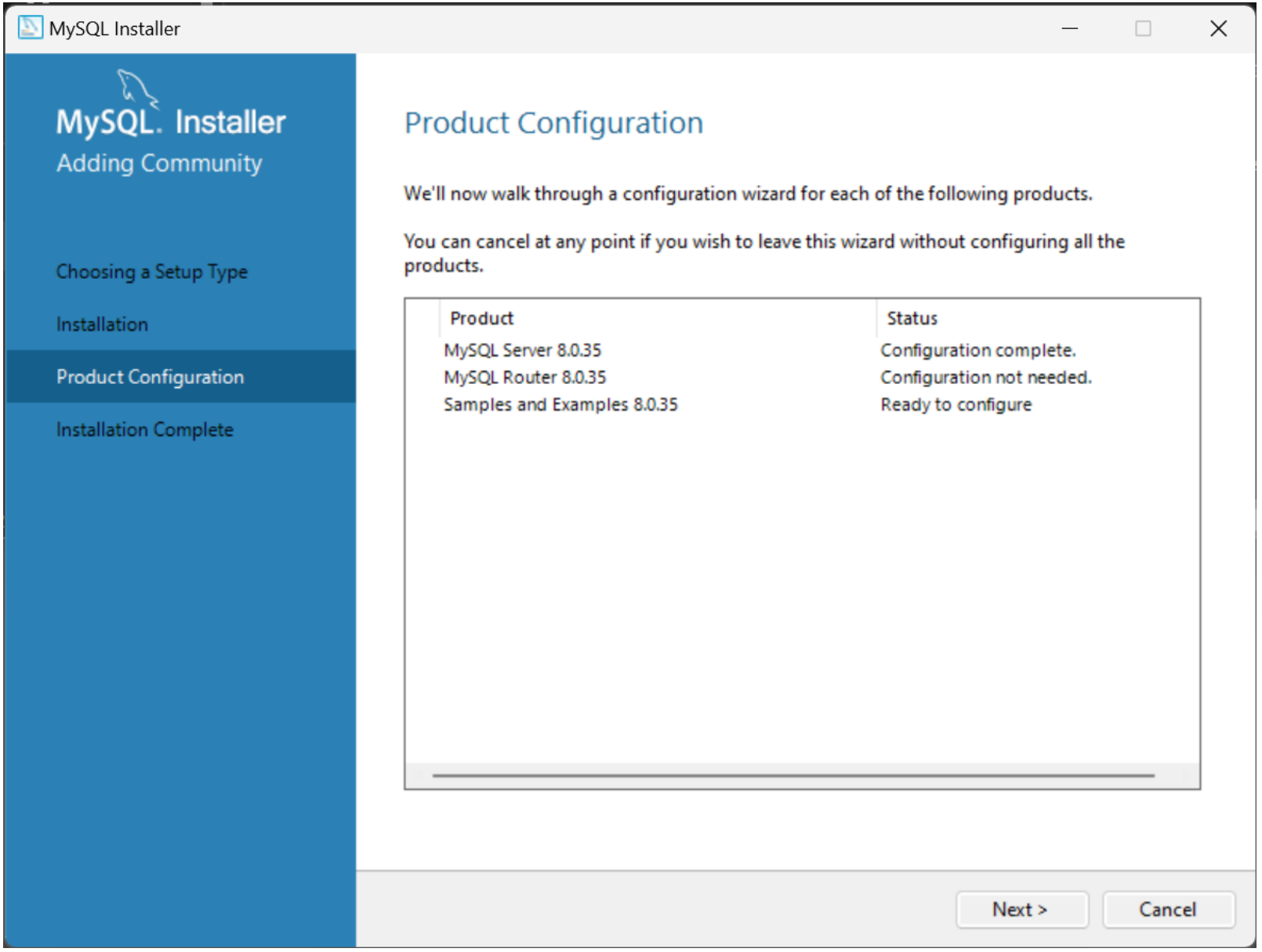

MySQL Installer
MySQL. Installer
MySQL Server 8.0.35
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Server File Permissions
MySQL Installer can secure the server's data directory by updating the permissions of files and folders located at:
C:\ProgramData\MySQL\MySQL Server 8.0\Data
Do you want MySQL Installer to update the server file permissions for you?
Yes, grant full access to the user running the Windows Service (if applicable) and the administrators group only. Other users and groups will not have access.
Yes, but let me review and configure the level of access.
No, I will manage the permissions after the server configuration.
< Back
Next >
Cancel


MySQL Installer
MySQL. Installer
MySQL Server 8.0.35
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Apply Configuration
Click [Execute] to apply the changes
Configuration Steps
Log
Writing configuration file
Updating Windows Firewall rules
Adjusting Windows service
Initializing database (may take a long time)
Updating permissions for the data folder and related server files
Starting the server
Applying security settings
Updating the Start menu link
< Back
Execute
Cancel


MySQL Installer
MySQL. Installer
MySQL Server 8.0.35
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Apply Configuration
The configuration operation has completed.
Configuration Steps
Log
Writing configuration file
Updating Windows Firewall rules
Adjusting Windows service
Initializing database (may take a long time)
Updating permissions for the data folder and related server files
Starting the server
Applying security settings
Updating the Start menu link
The configuration for MySQL Server 8.0.35 was successful.
Click Finish to continue.
Finish


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 8.0.35
Configuration complete.
MySQL Router 8.0.35
Ready to configure
Samples and Examples 8.0.35
Ready to configure
Next >
Cancel


MySQL Installer
MySQL. Installer
MySQL Router 8.0.35
MySQL Router Configuration
MySQL Router Configuration
Bootstrap MySQL Router for use with InnoDB Cluster
This wizard can bootstrap MySQL Router to direct traffic between MySQL applications and 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 boostrapping process requires a connection to InnoDB Cluster. In order to register the MySQL Router for monitoring, use the current Read/Write instance of the cluster.
Hostname:
Port: 3306
Management User: root
Password:
Test Connection
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: 6446
Read Only: 6447
X Protocol connections to InnoDB Cluster:
Read/Write: 6448
Read Only: 6449
Finish
Cancel


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
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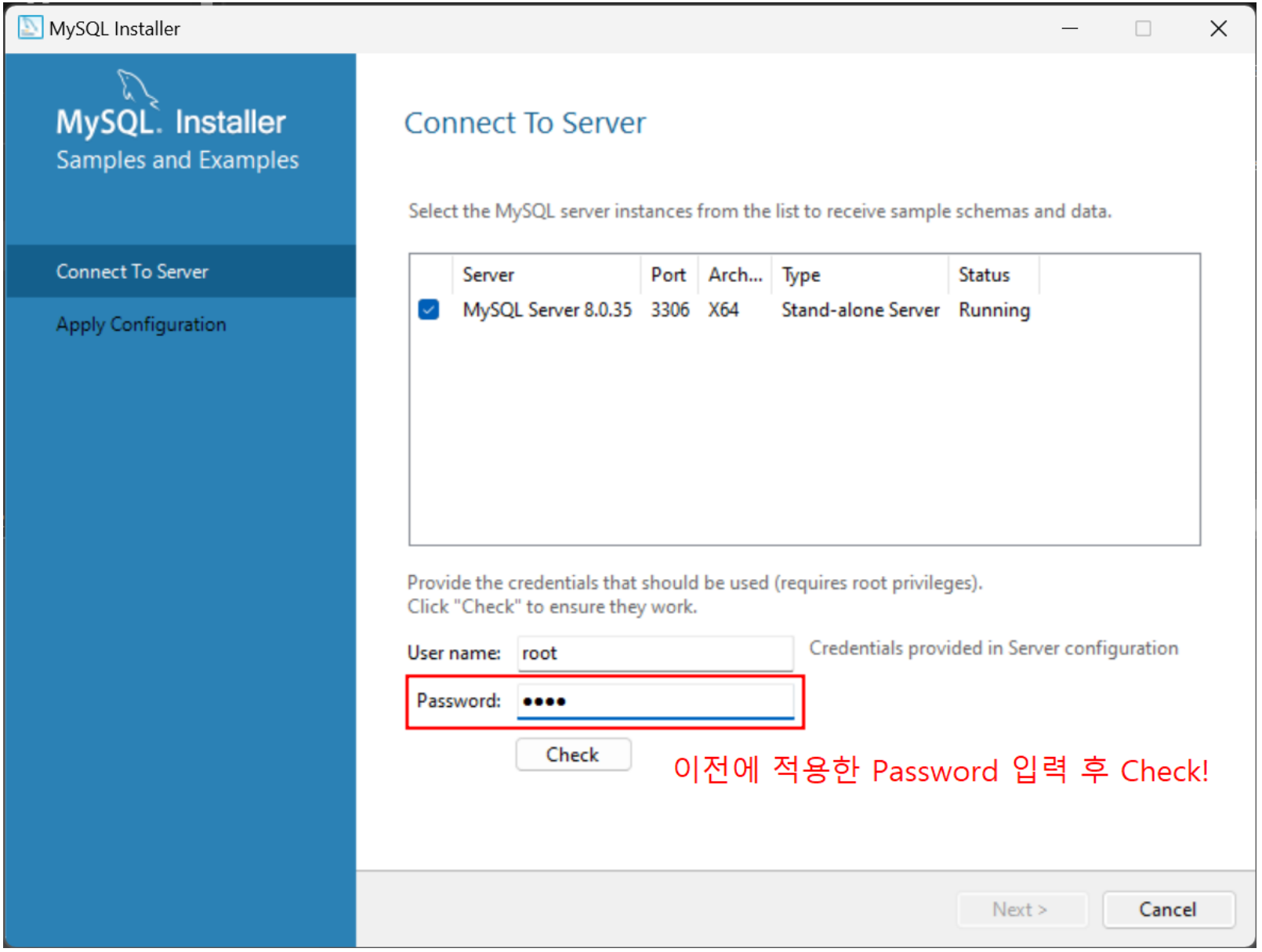
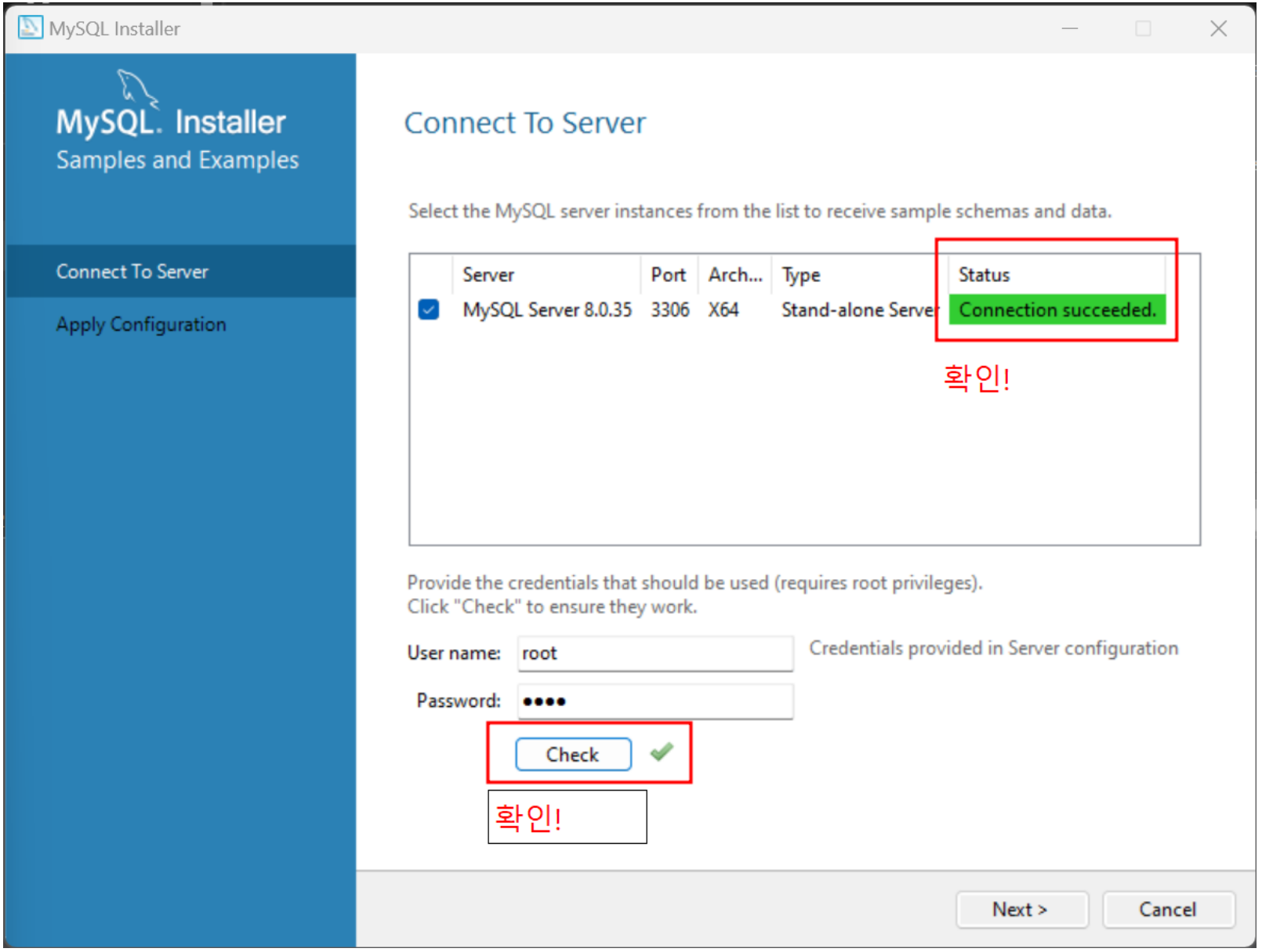
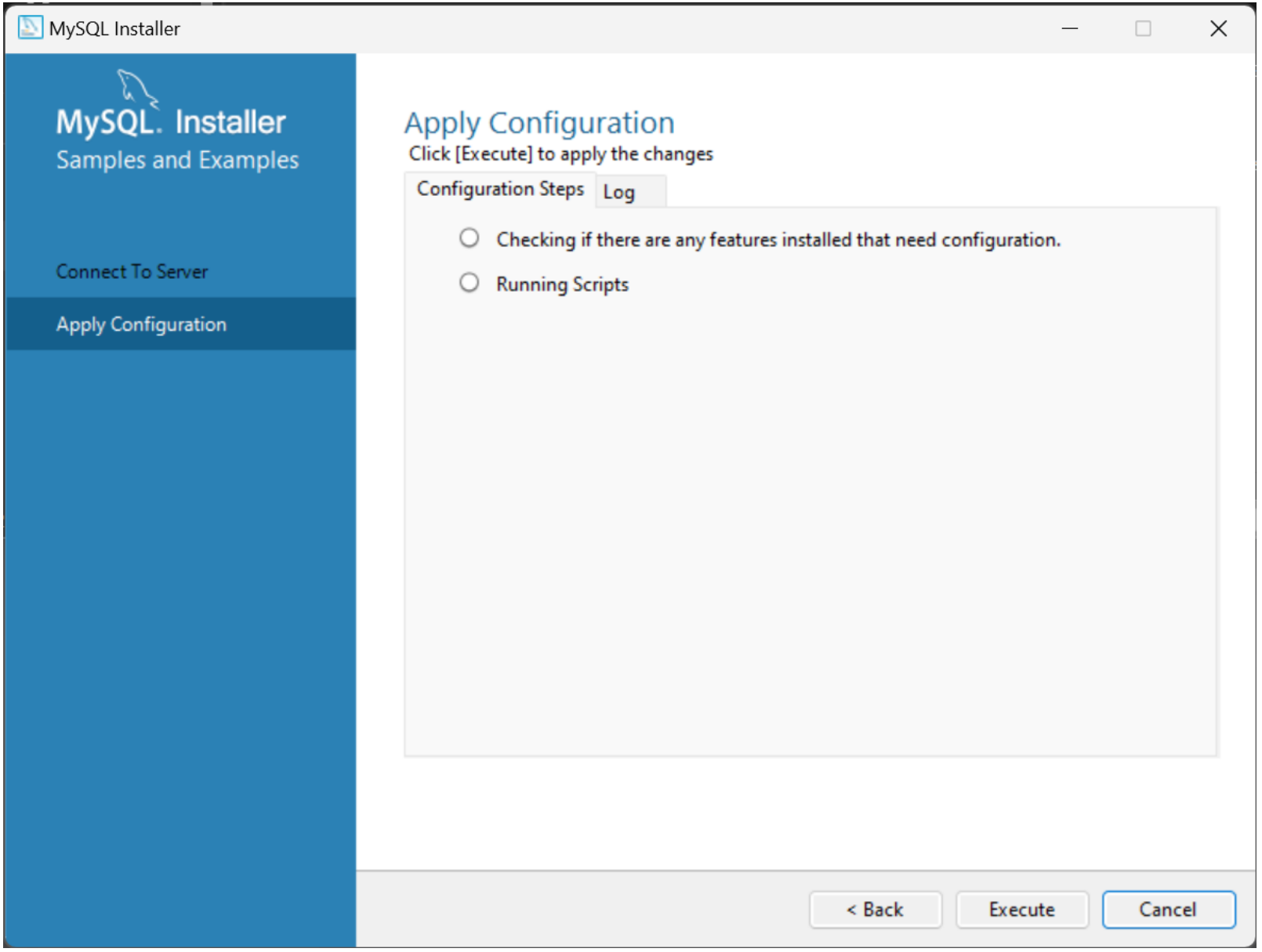
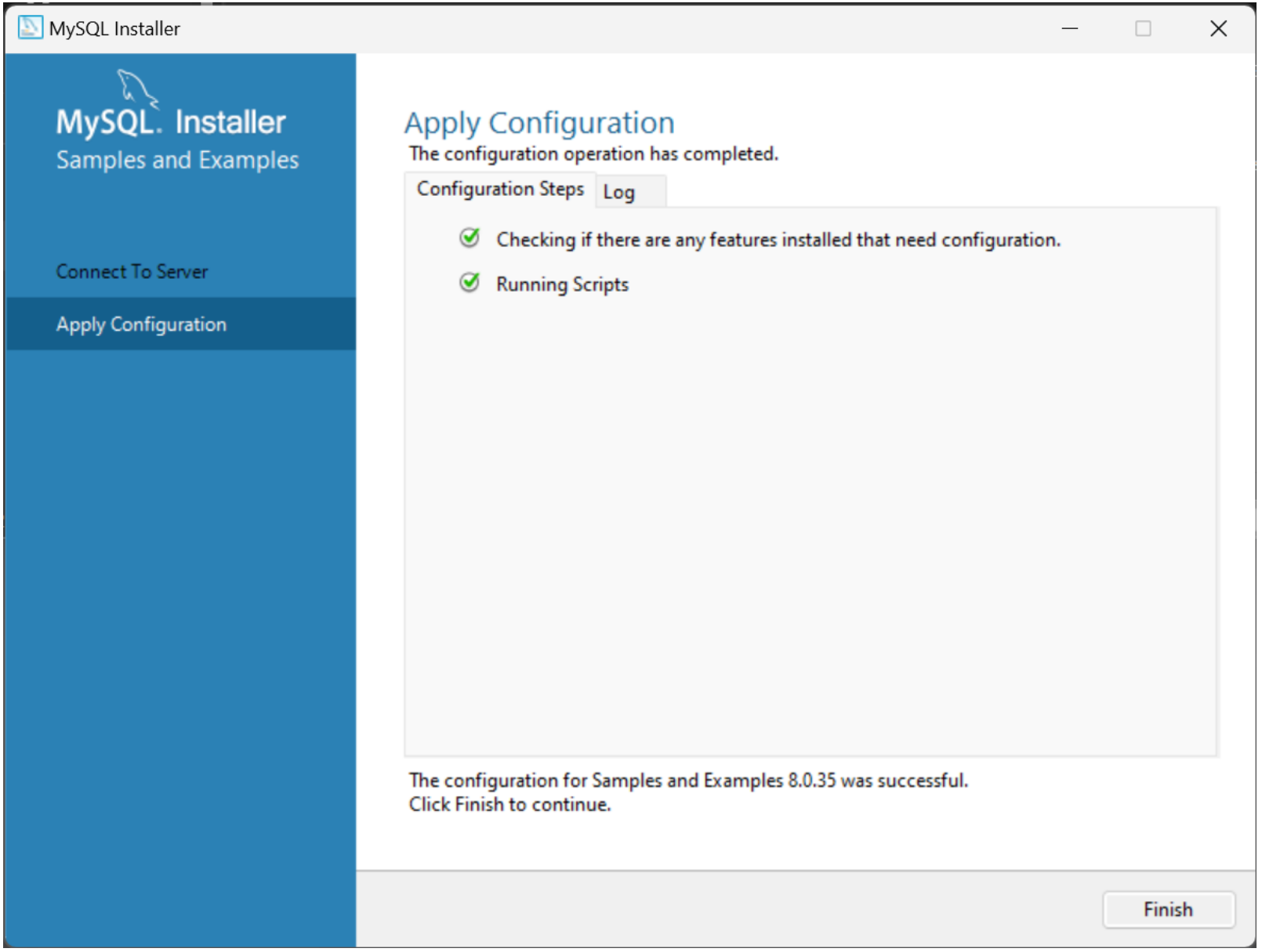
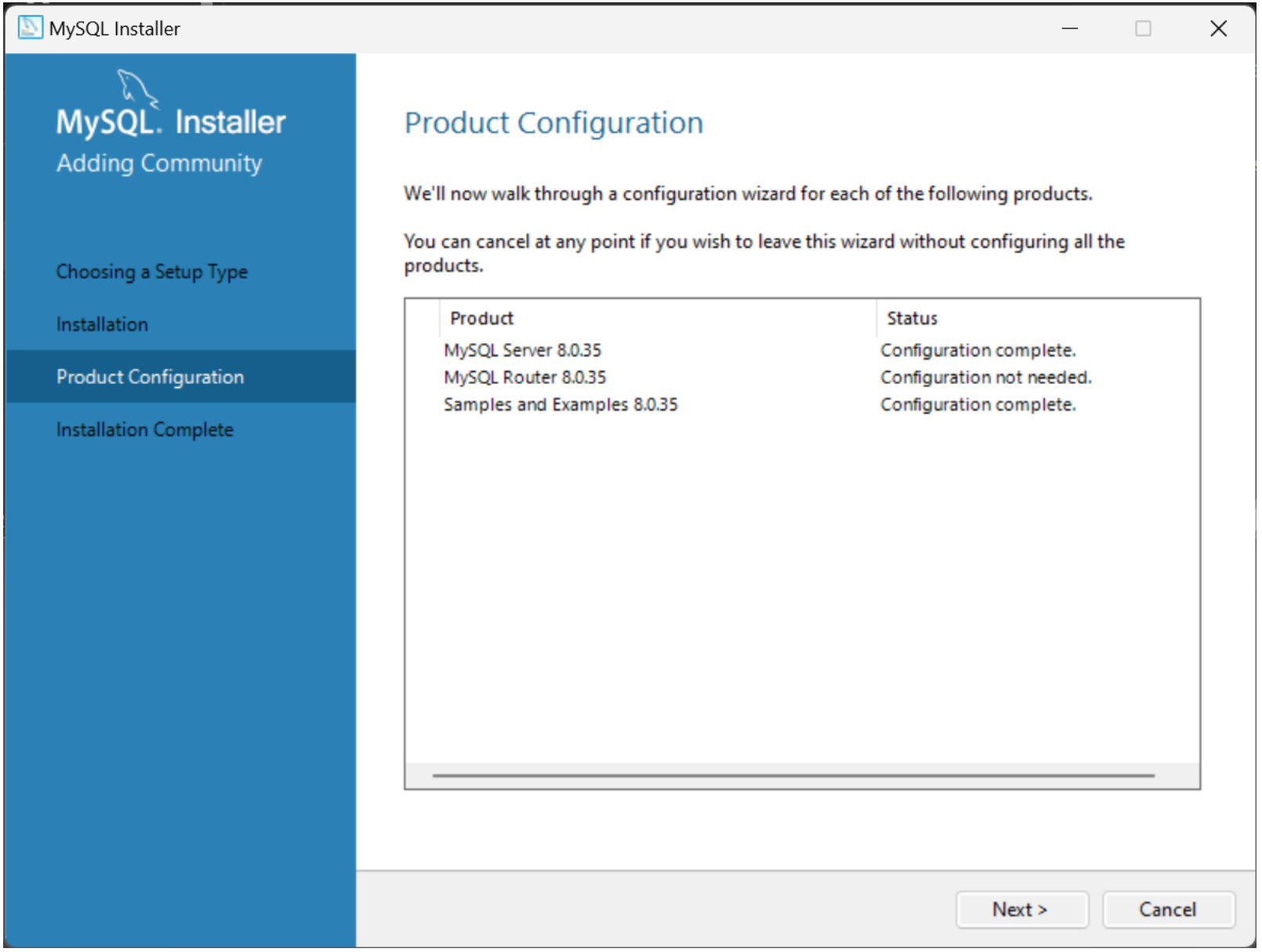
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 8.0.35
Configuration complete.
MySQL Router 8.0.35
Configuration not needed.
Samples and Examples 8.0.35
Ready to configure
Next >
Cancel

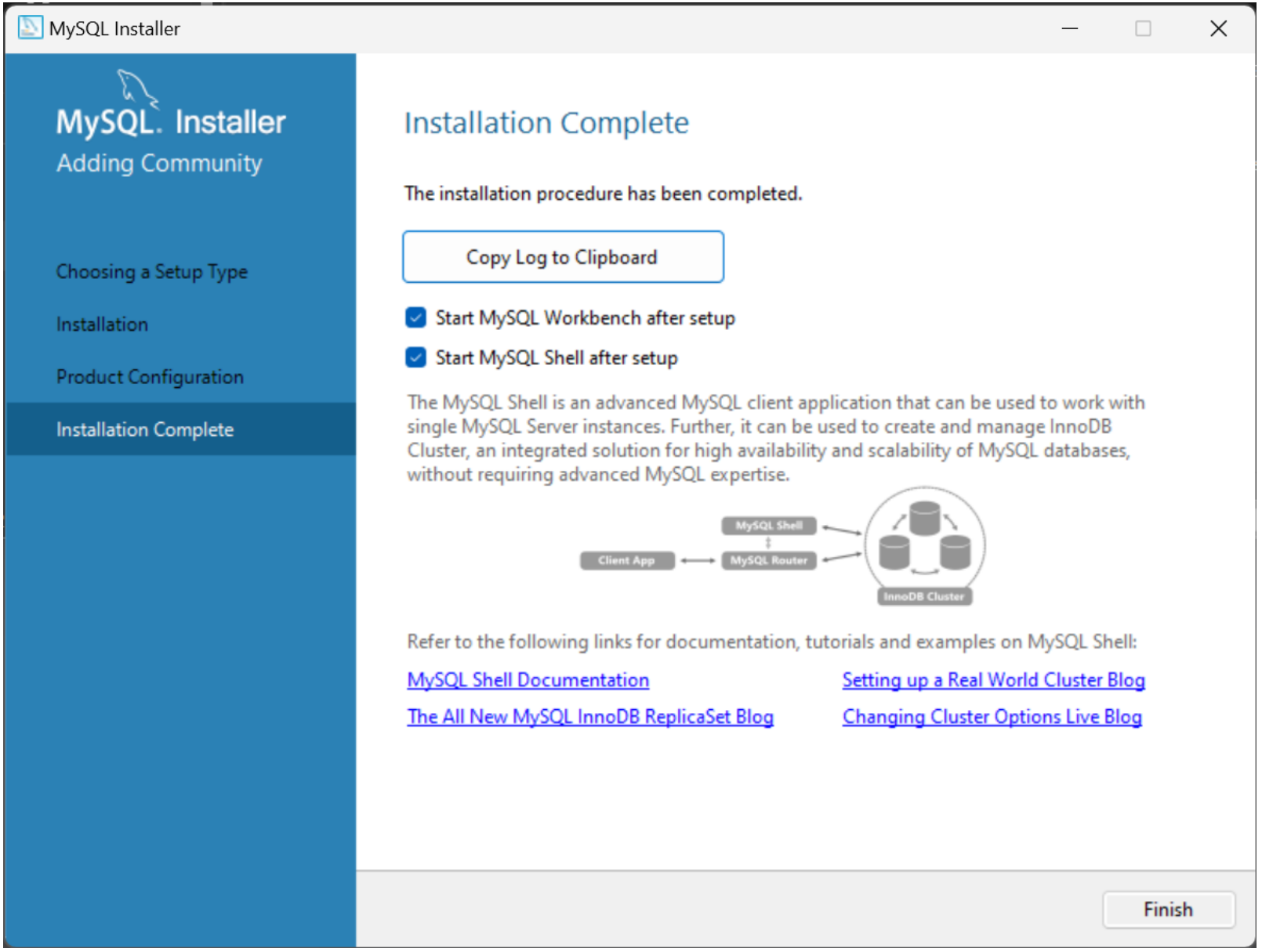

MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Configuration
Connect To Server
Select the MySQL server instances from the list to receive sample schemas and data.
Server
Port
Arch...
Type
Status
MySQL Server 8.0.35
3306
X64
Stand-alone Server
Running
Provide the credentials that should be used (requires root privileges).
Click "Check" to ensure they work.
User name:
root
Credentials provided in Server configuration
Password:
Check
이전에 적용한 Password 입력 후 Check!
Next >
Cancel

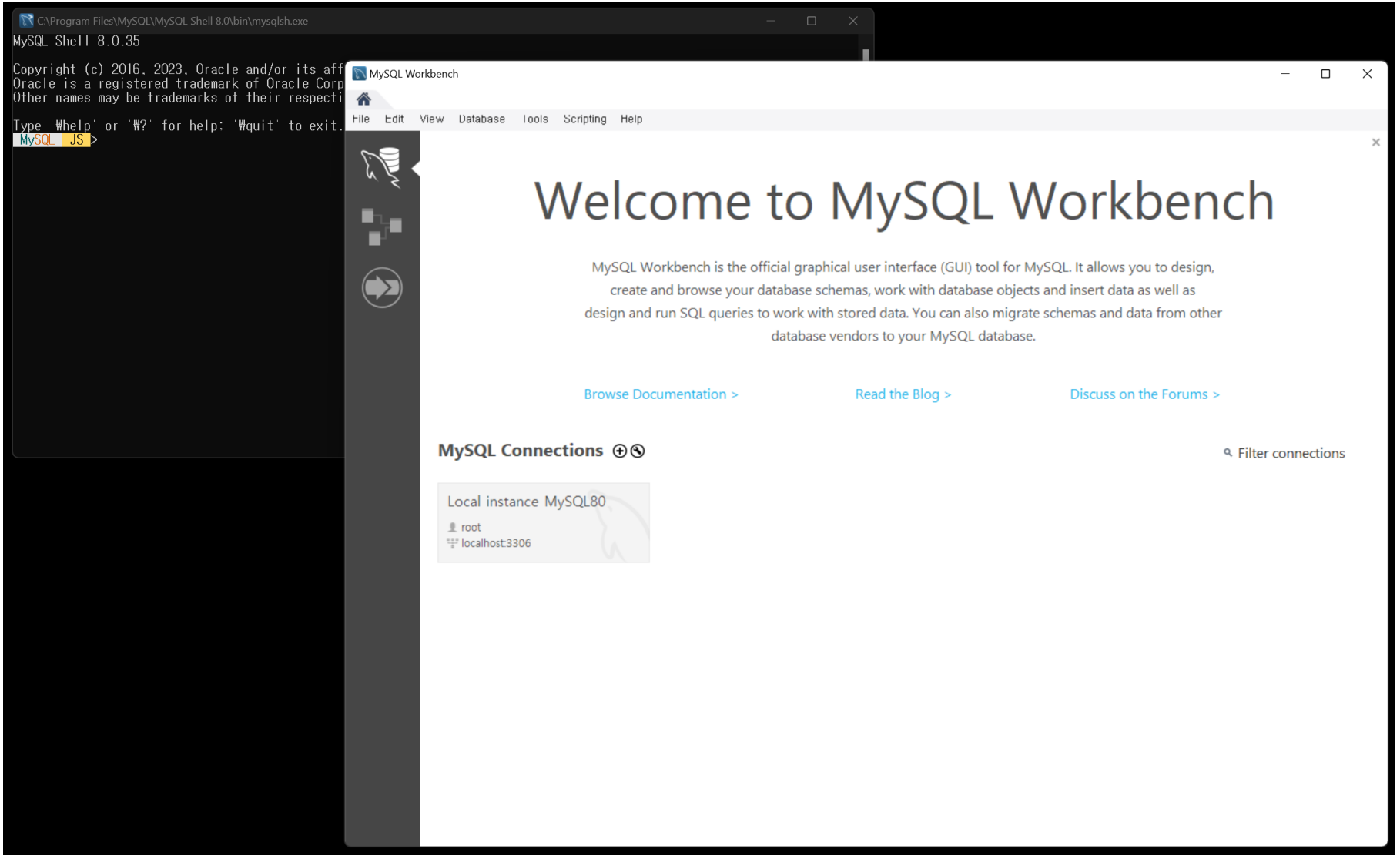

MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Configuration
Connect To Server
Select the MySQL server instances from the list to receive sample schemas and data.
Server
Port
Arch...
Type
Status
MySQL Server 8.0.35
3306
X64
Stand-alone Server
Connection succeeded.
확인!
Provide the credentials that should be used (requires root privileges).
Click "Check" to ensure they work.
User name:
root
Credentials provided in Server configuration
Password:
Check
확인!
Next >
Cancel


MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Configuration
Apply Configuration
Click [Execute] to apply the changes
Configuration Steps
Log
Checking if there are any features installed that need configuration.
Running Scripts
< Back
Execute
Cancel

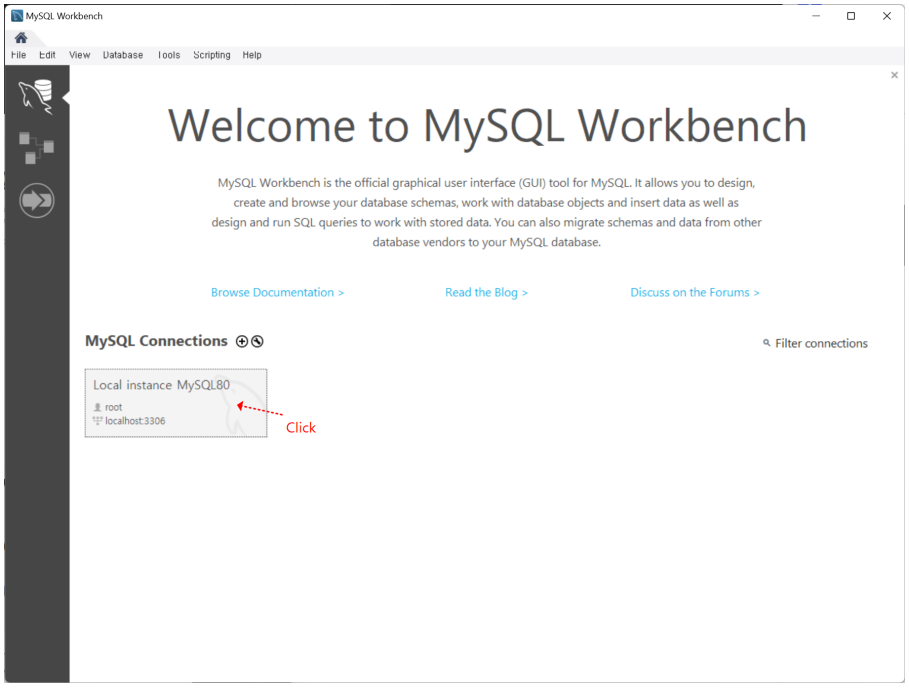

MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Configuration
Apply Configuration
The configuration operation has completed.
Configuration Steps
Log
Checking if there are any features installed that need configuration.
Running Scripts
The configuration for Samples and Examples 8.0.35 was successful.
Click Finish to continue.
Finish

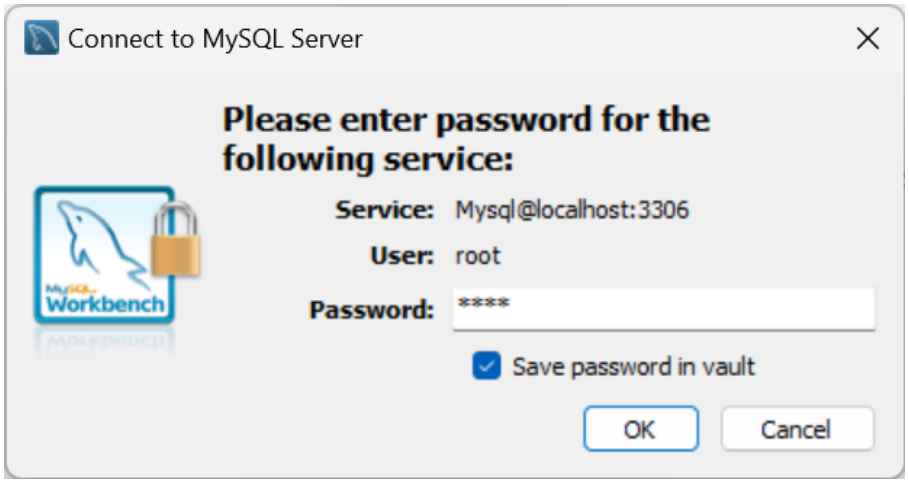

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 8.0.35
Configuration complete.
MySQL Router 8.0.35
Configuration not needed.
Samples and Examples 8.0.35
Configuration complete.
Next >
Cancel

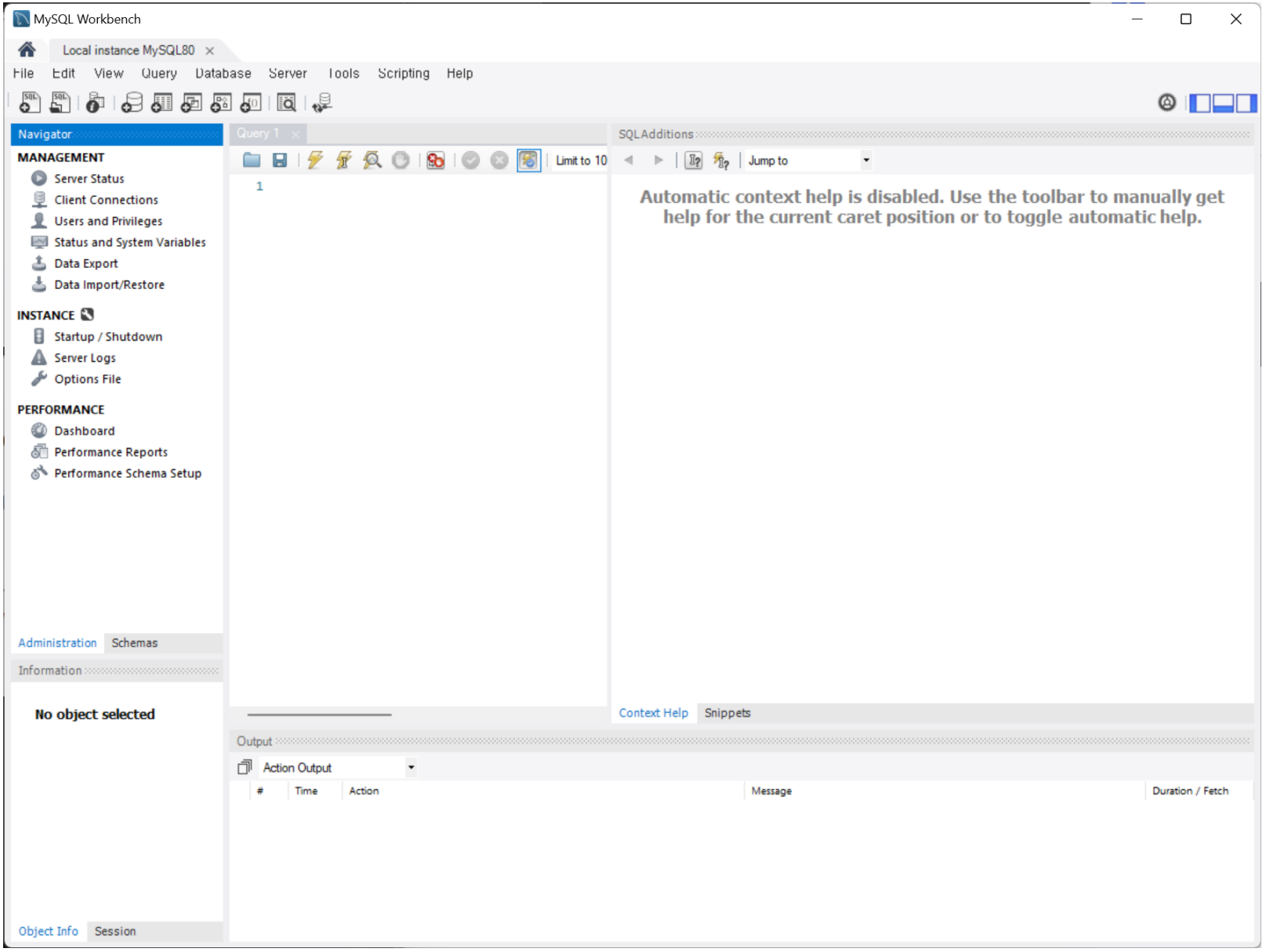

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Installation Complete
The installation procedure has been completed.
Copy Log to Clipboard
Start MySQL Workbench after setup
Start MySQL Shell after setup
The MySQL Shell is an advanced MySQL client application that can be used to work with single MySQL Server instances. Further, it can be used to create and manage InnoDB Cluster, an integrated solution for high availability and scalability of MySQL databases, without requiring advanced MySQL expertise.
MySQL Shell
Client App
MySQL Router
InnoDB Cluster
Refer to the following links for documentation, tutorials and examples on MySQL Shell:
MySQL Shell Documentation
Setting up a Real World Cluster Blog
The All New MySQL InnoDB ReplicaSet Blog
Changing Cluster Options Live Blog
Finish



(03) Verification

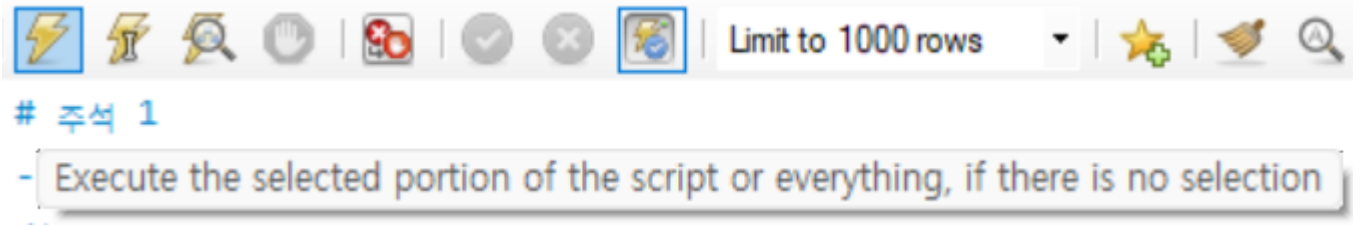

MySQL Workbench
File Edit View Database Tools Scripting Help
Welcome to MySQL Workbench
MySQL Workbench is the official graphical user interface (GUI) tool for MySQL. It allows you to design, create and browse your database schemas, work with database objects and insert data as well as design and run SQL queries to work with stored data. You can also migrate schemas and data from other database vendors to your MySQL database.
Browse Documentation >
Read the Blog >
Discuss on the Forums >
MySQL Connections
Filter connections
Local instance MySQL80
root
localhost:3306
Click


Connect to MySQL Server
Please enter password for the following service:
Service: Mysql@localhost:3306
User: root
Password: ****
Save password in vault
OK
Cancel

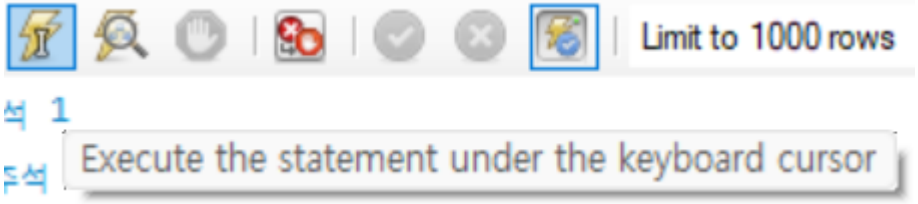

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
MANAGEMENT
Server Status
Client Connections
Users and Privileges
Status and System Variables
Data Export
Data Import/Restore
INSTANCE
Startup / Shutdown
Server Logs
Options File
PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
Administration Schemas
Information
No object selected
Object Info Session
Query 1
Limit to 10
1
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch

02. MySQL Workbench 사용법

- Execution Button



전체 실행 or 블록 처리된 라인 실행



현재 커서 라인 실행

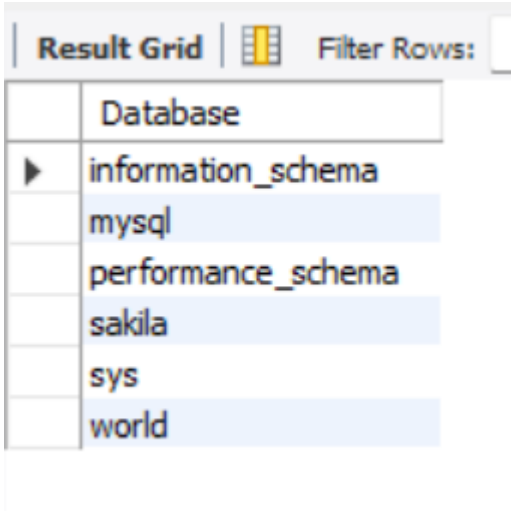
```
-- 주석 1 : 해당 라인 주석

# 주석 1 : 해당 키워드 이후 주석

/*
주석 3 : 다중 라인 주석
*/
```

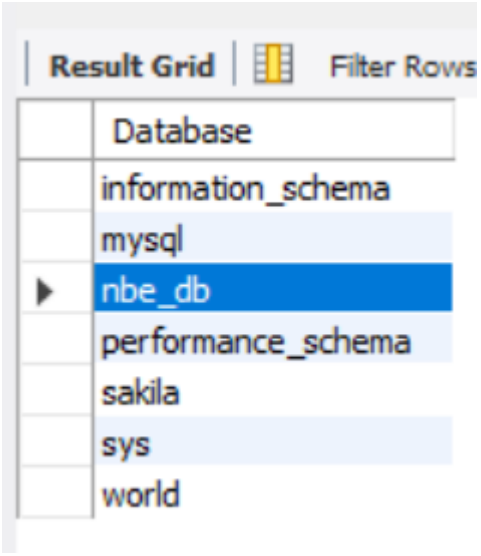
- 모든 데이터베이스 목록 보기

```
-- 모든 데이터베이스 목록 보기
show databases;
```



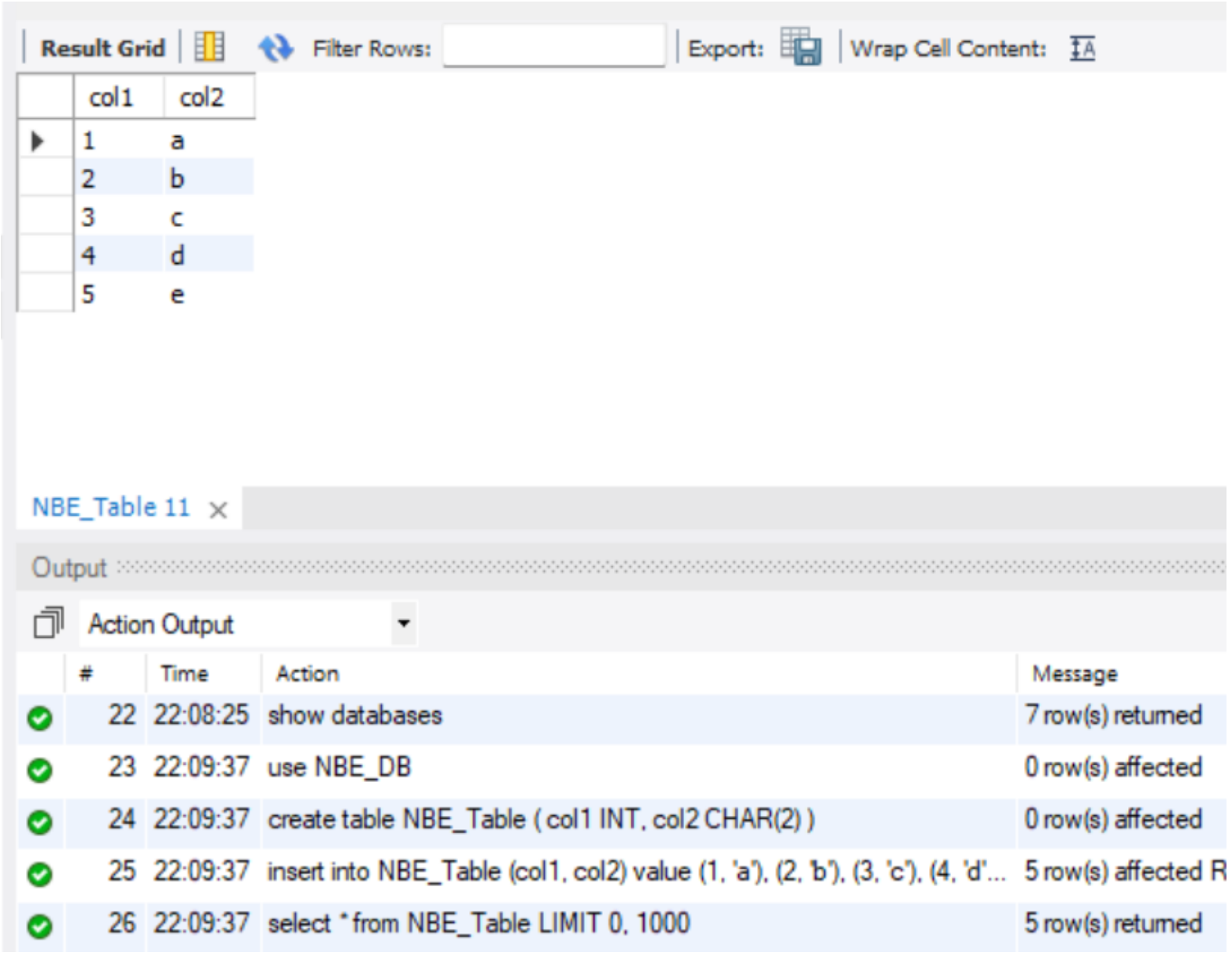
- 데이터베이스 생성 및 확인

```
-- 데이터베이스 생성 및 지정
create database NBE_DB; #생성
show databases;
# 삭제 drop database NBE_DB;
```



- 데이터베이스 지정 및 테이블 생성 & 데이터 삽입

```
-- 데이터 베이스 지정 및 테이블 생성 및 데이터 삽입
#지정
use NBE_DB;
# 테이블 생성
create table NBE_Table (
      col1 INT,
      col2 CHAR(2)
);
# 데이터 삽입
insert into NBE_Table (col1, col2)
value (1, 'a'), (2, 'b'), (3, 'c'), (4, 'd'), (5, 'e');
# 확인
select * from NBE_Table;
```


Result Grid
Filter Rows:
Export:
Wrap Cell Content:
col1 col2
1 a
2 b
3 c
4 d
5 e
NBE_Table 11
Output
Action Output
Time Action Message
22 22:08:25 show databases 7 row(s) returned
23 22:09:37 use NBE_DB 0 row(s) affected
24 22:09:37 create table NBE_Table (col1 INT, col2 CHAR(2)) 0 row(s) affected
25 22:09:37 insert into NBE_Table (col1, col2) value (1, 'a'), (2, 'b'), (3, 'c'), (4, 'd'... 5 row(s) affected R
26 22:09:37 select * from NBE_Table LIMIT 0, 1000 5 row(s) returned