

# Fundamentals for Applied Data Science

## MySQL Setup

# Download Link

- <https://dev.mysql.com/downloads/installer/>

The screenshot shows a web browser window with the address bar displaying <https://dev.mysql.com/downloads/installer/>. The page title is "MySQL Community Downloads" and the breadcrumb is "MySQL Installer".

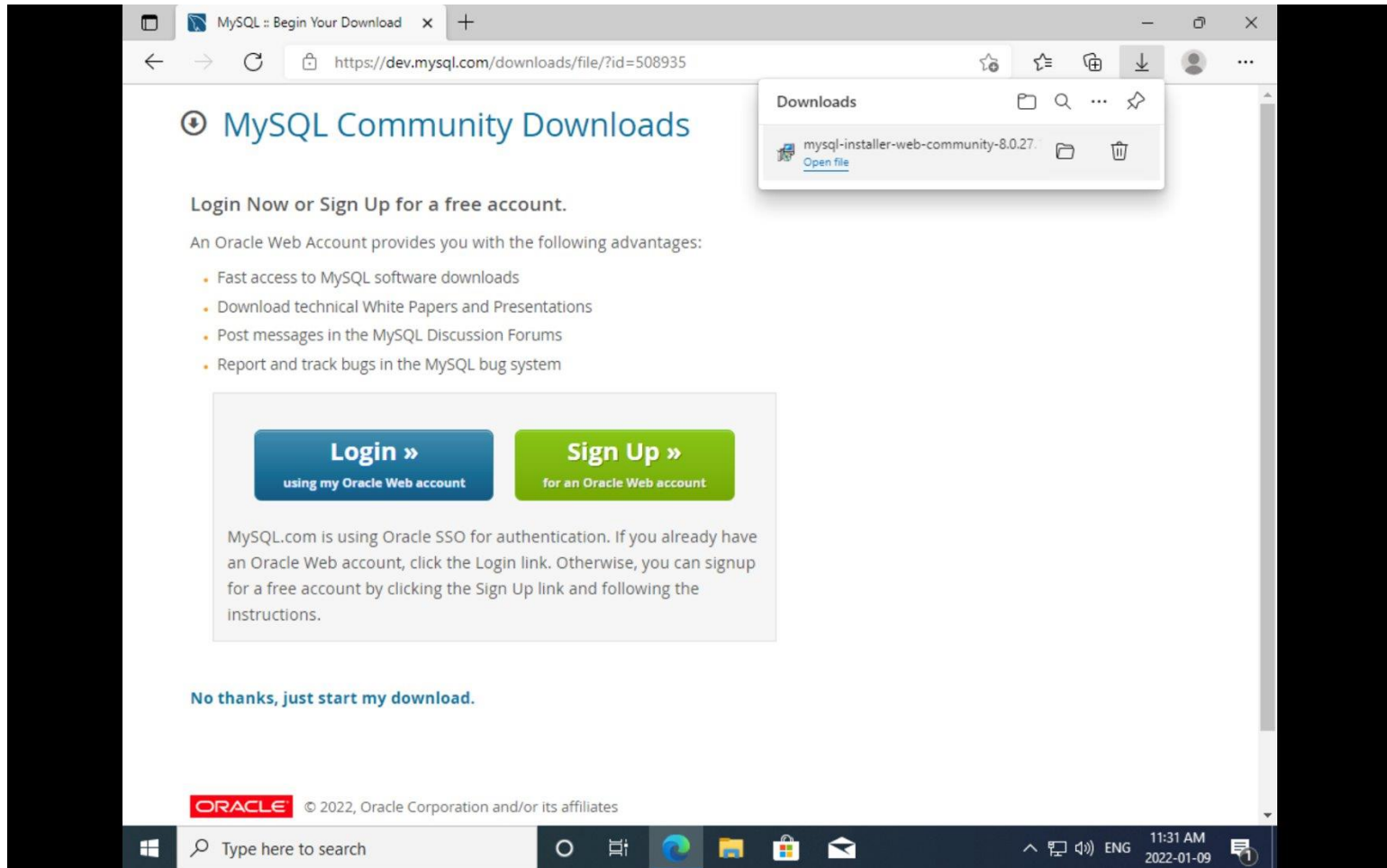
The main content area has two tabs: "General Availability (GA) Releases" (selected) and "Archives". Below the tabs, the heading "MySQL Installer 8.0.27" is displayed. A "Select Operating System:" dropdown menu is set to "Microsoft Windows". A link "Looking for previous GA versions?" is visible.

Two download options are listed:

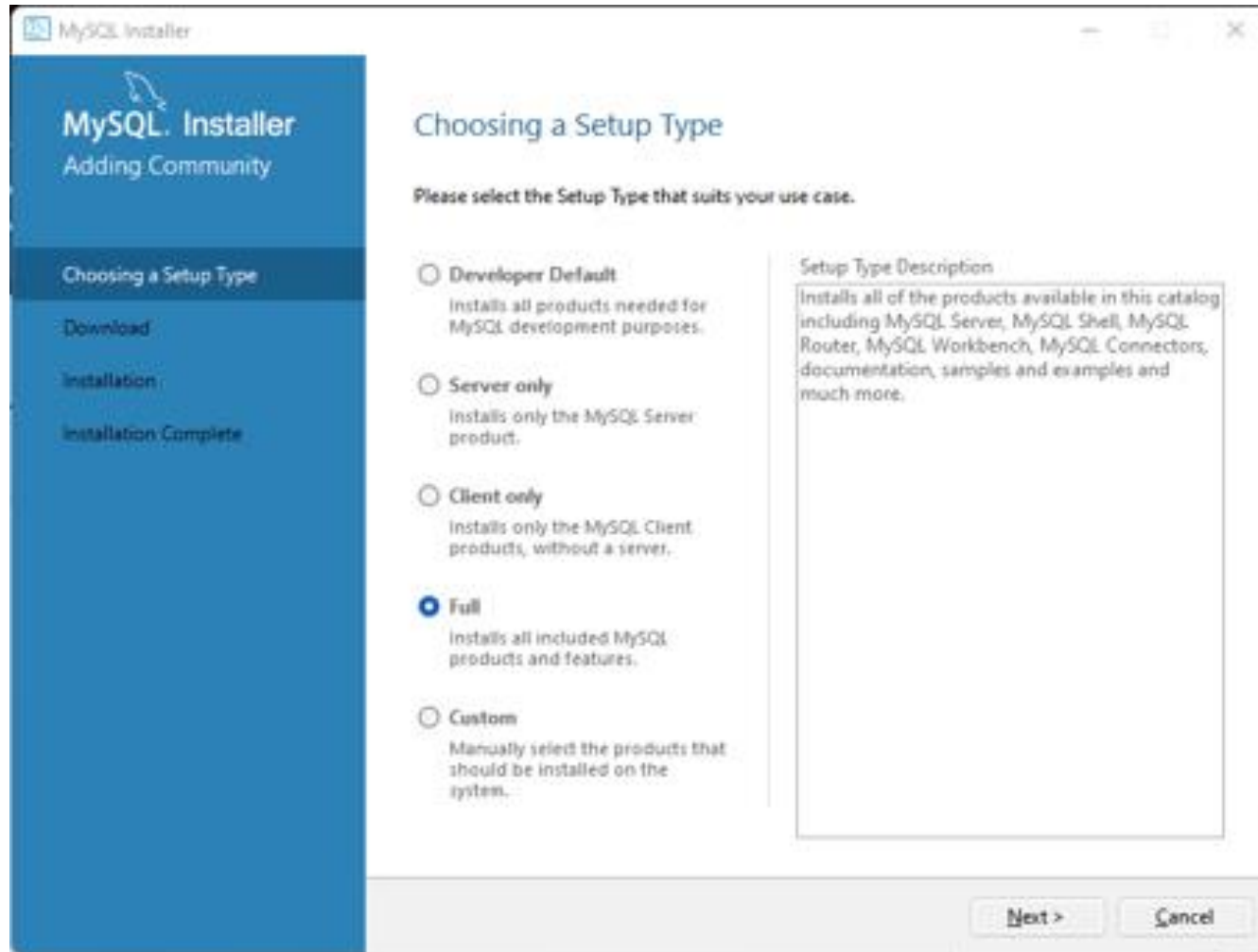
Operating System	Version	Size	Action
Windows (x86, 32-bit), MSI Installer	8.0.27	2.3M	<a href="#">Download</a>
(mysql-installer-web-community-8.0.27.1.msi)		MD5: 44b7f3e4c1bdcc641621cfaa31ea18f4	<a href="#">Signature</a>
Windows (x86, 32-bit), MSI Installer	8.0.27	470.2M	<a href="#">Download</a>
(mysql-installer-community-8.0.27.1.msi)		MD5: 9b7af5c91139659b10b84b1ca357d08f	<a href="#">Signature</a>

A note at the bottom states: "We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download."

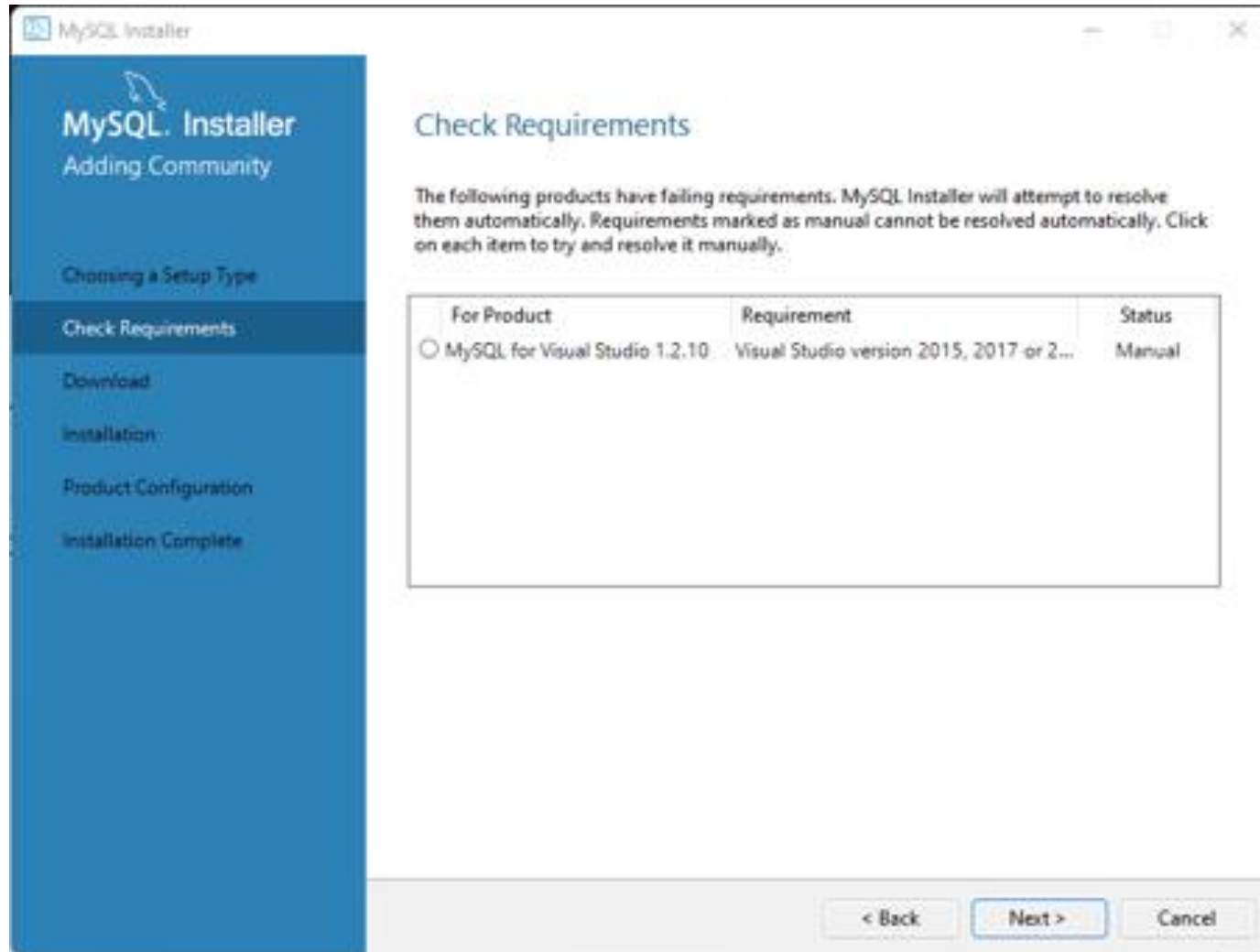
# Download MySQL Installer



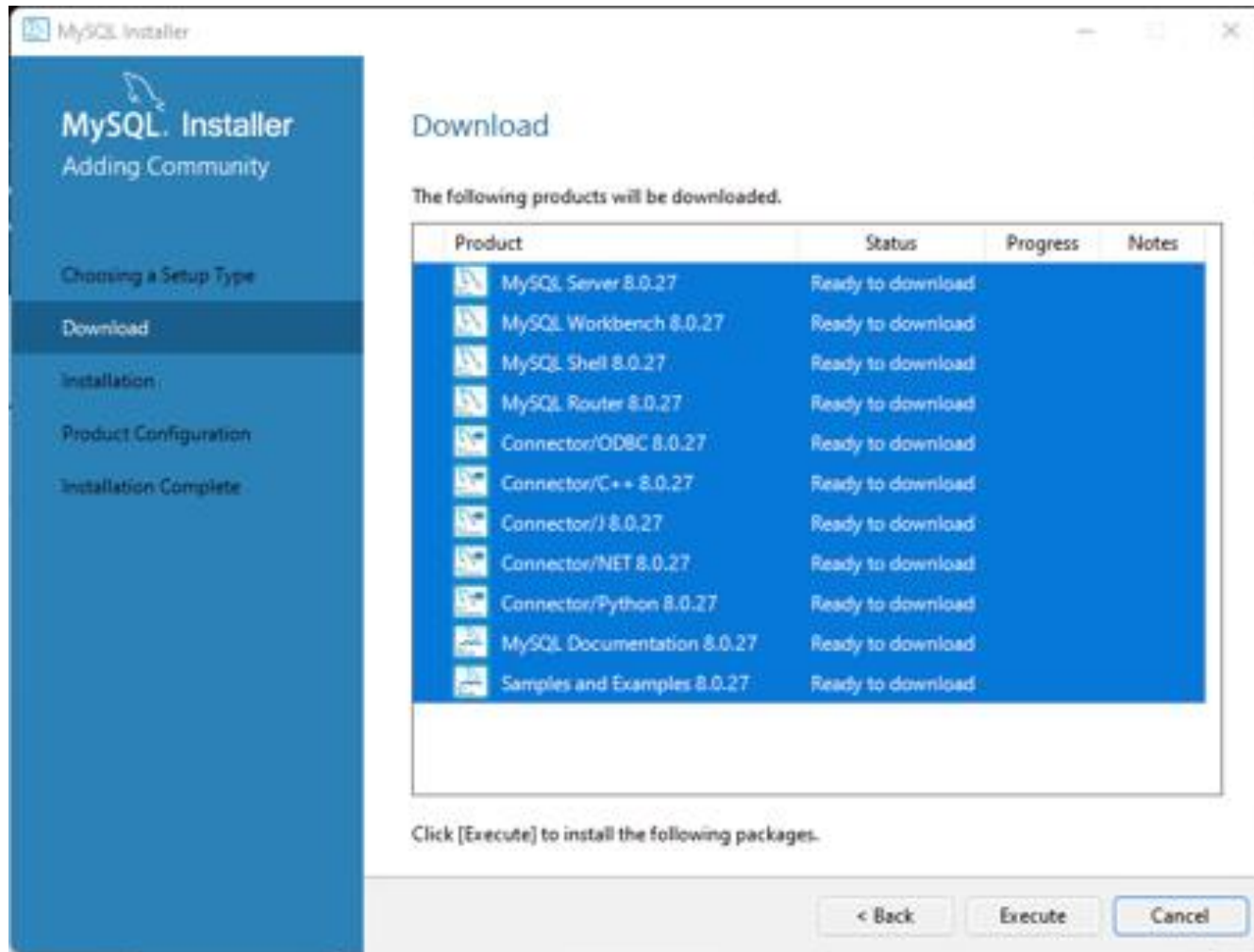
# Full Install



# Check Requirements

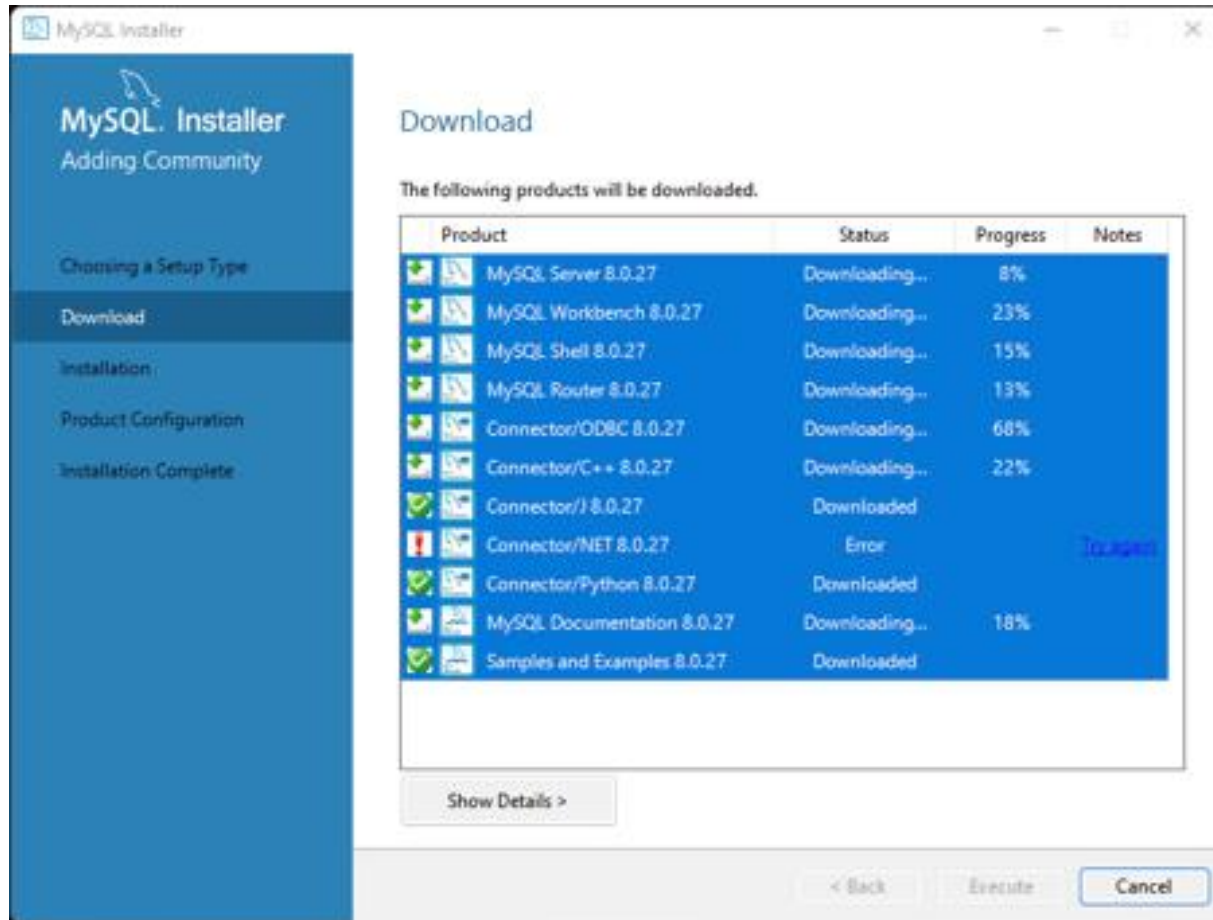


# Download Products

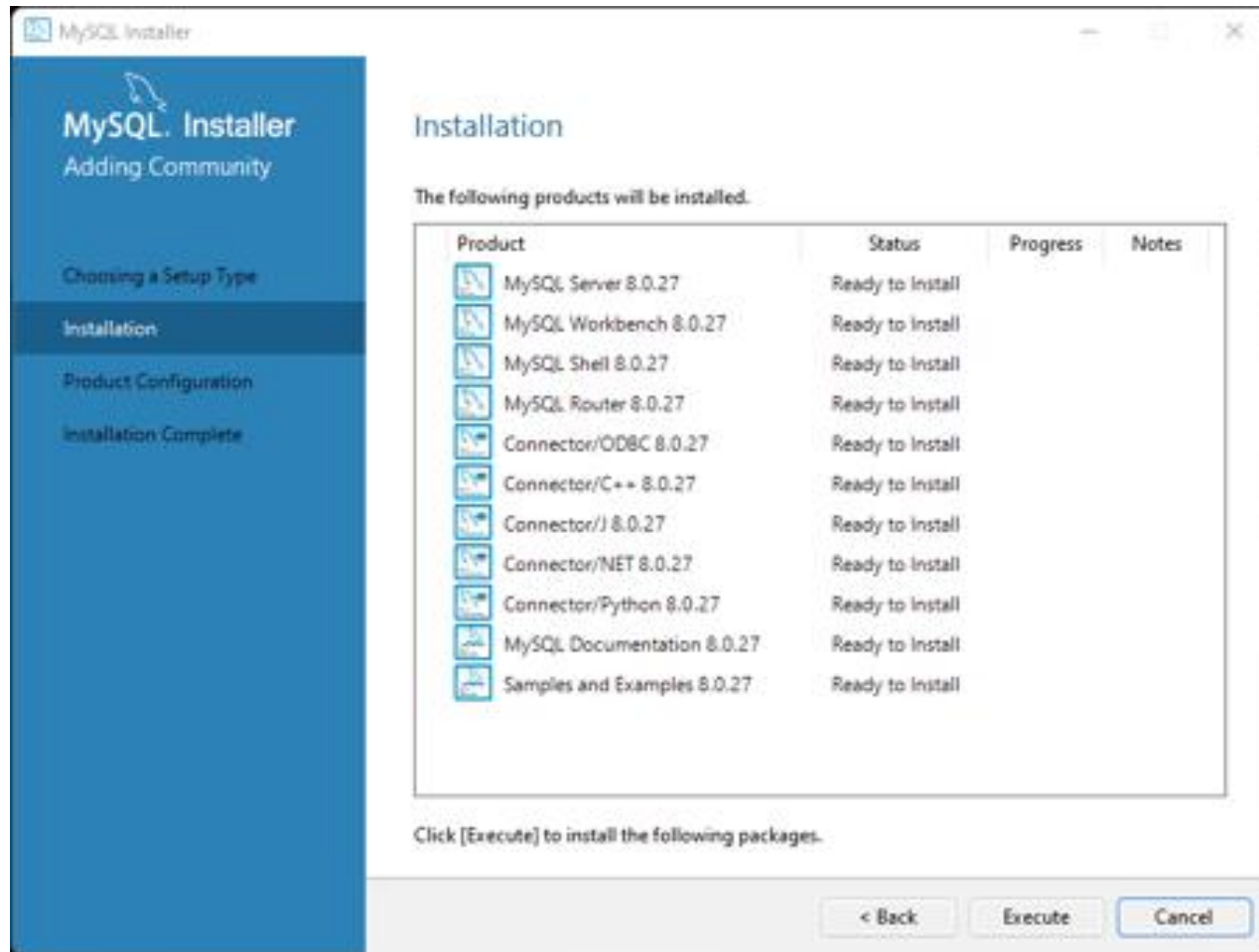


# Download Products

- Retry if any of the products fail downloading

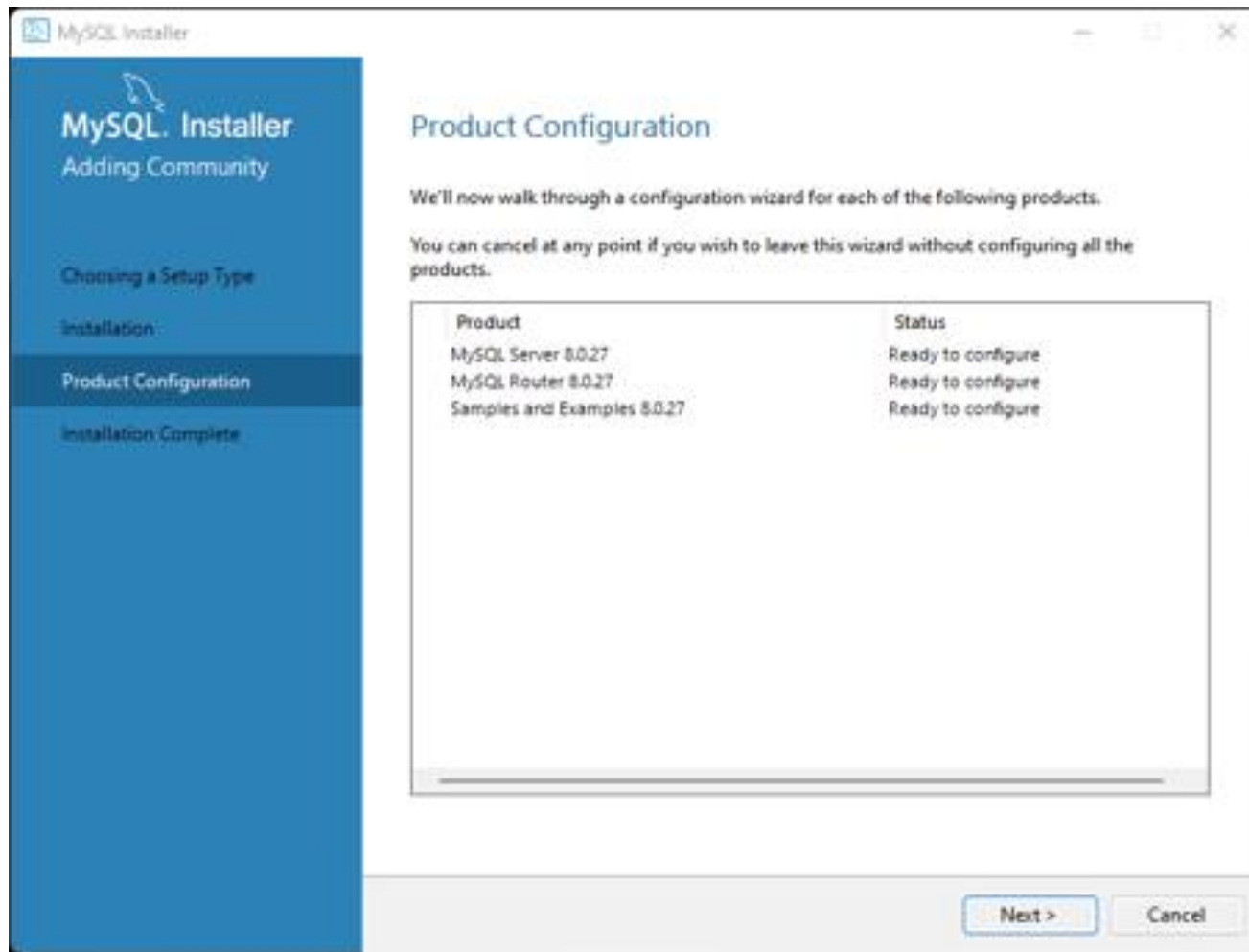


# Install Downloaded Products

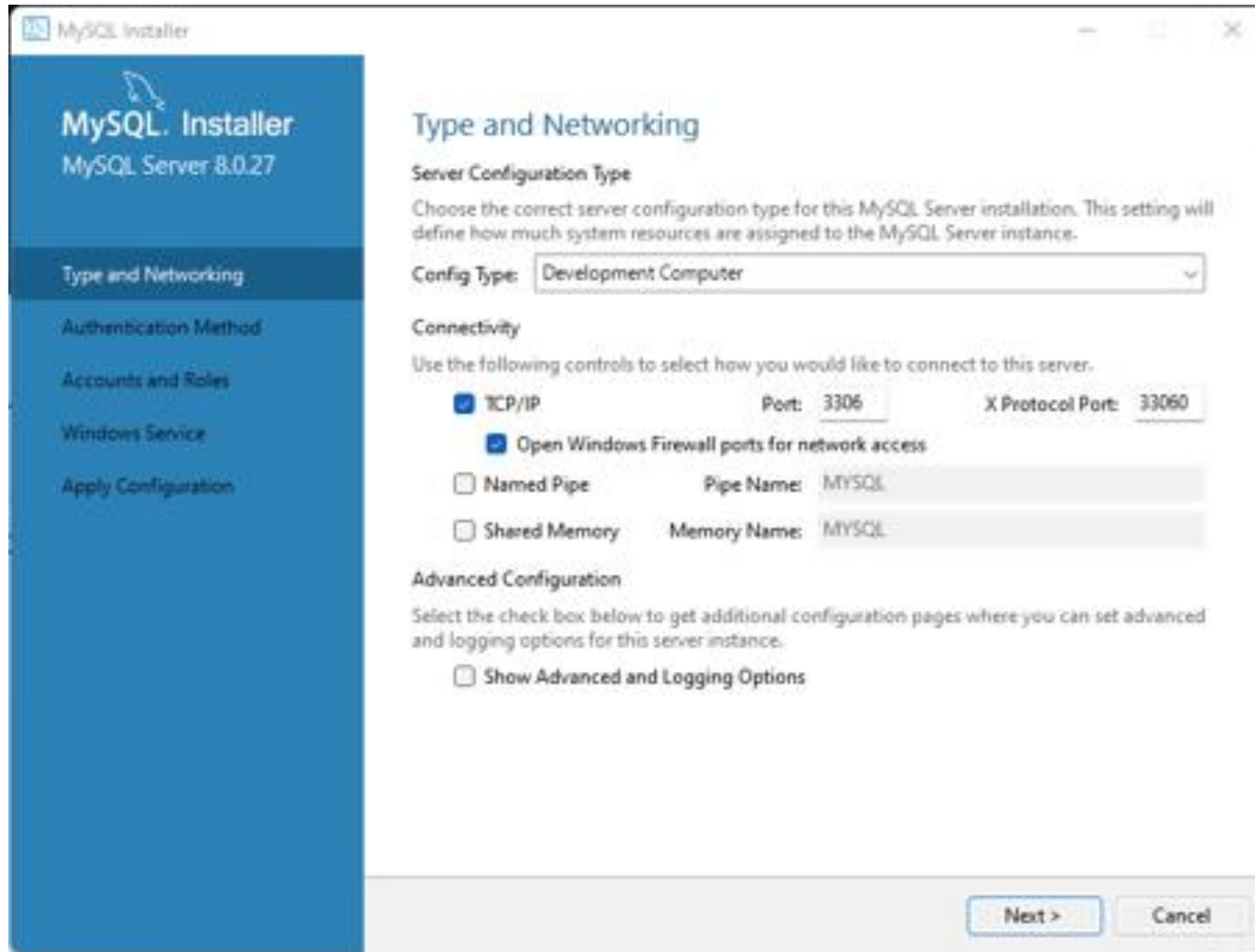




# Configure Products



# Configure Server

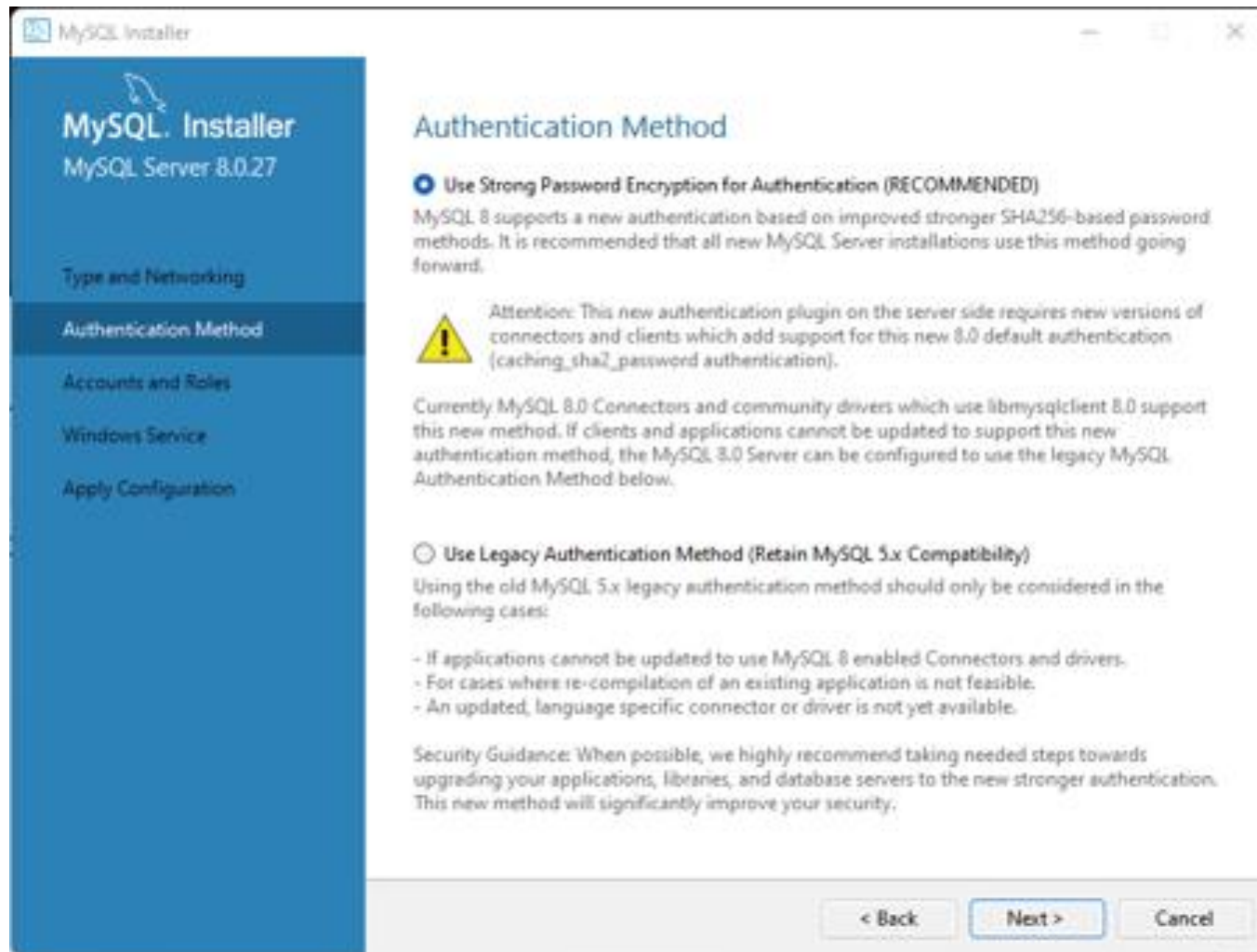


The screenshot shows the 'MySQL Installer' window for 'MySQL Server 8.0.27'. The left sidebar contains a list of configuration steps: 'Type and Networking' (selected), 'Authentication Method', 'Accounts and Roles', 'Windows Service', and 'Apply Configuration'. The main area is titled 'Type and Networking' and contains the following sections:

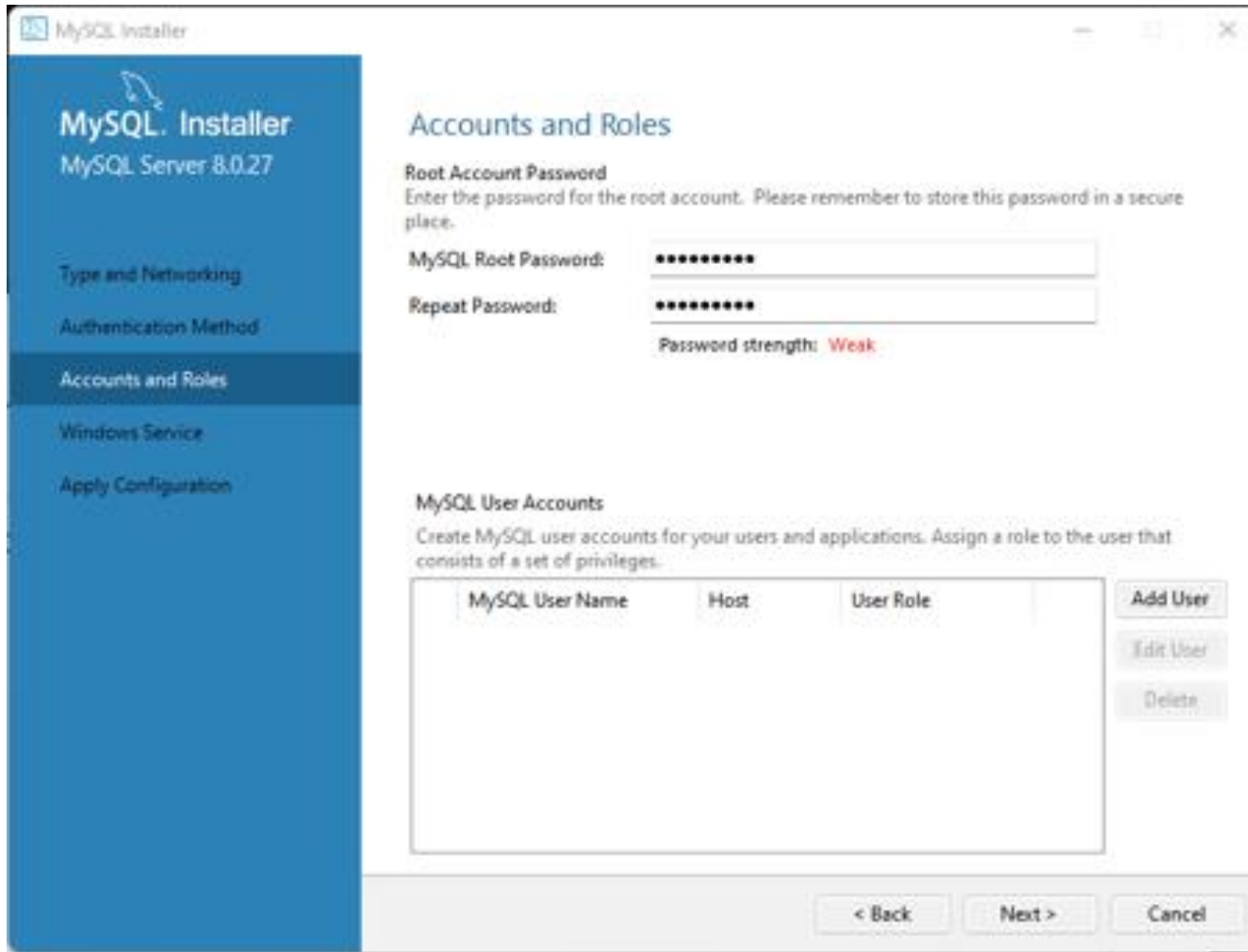
- Server Configuration Type**  
Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance.  
Config Type:
- Connectivity**  
Use the following controls to select how you would like to connect to this server.
  - ☒ TCP/IP Port:  X Protocol Port:
  - ☒ Open Windows Firewall ports for network access
  - ☐ Named Pipe Pipe Name:
  - ☐ Shared Memory Memory Name:
- 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

At the bottom right, there are 'Next >' and 'Cancel' buttons.

# Choose Authentication Method



# Set Root Password



The image shows the MySQL Installer window for MySQL Server 8.0.27. The left sidebar contains the following navigation items: Type and Networking, Authentication Method, Accounts and Roles (selected), Windows Service, and Apply Configuration. The main area is titled 'Accounts and Roles' and contains two sections: 'Root Account Password' and 'MySQL User Accounts'.

**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**

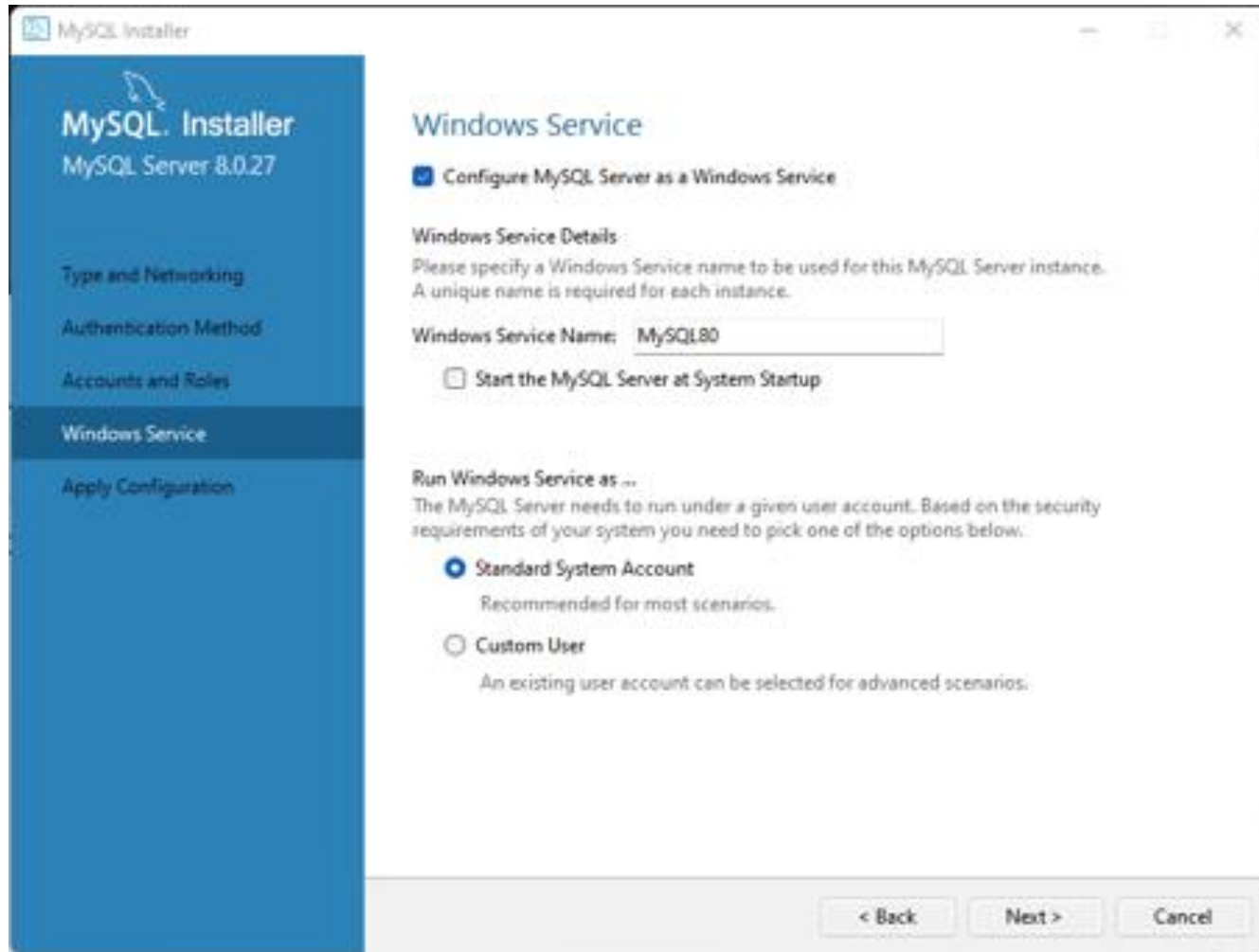
**MySQL User Accounts**  
Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.

MySQL User Name	Host	User Role
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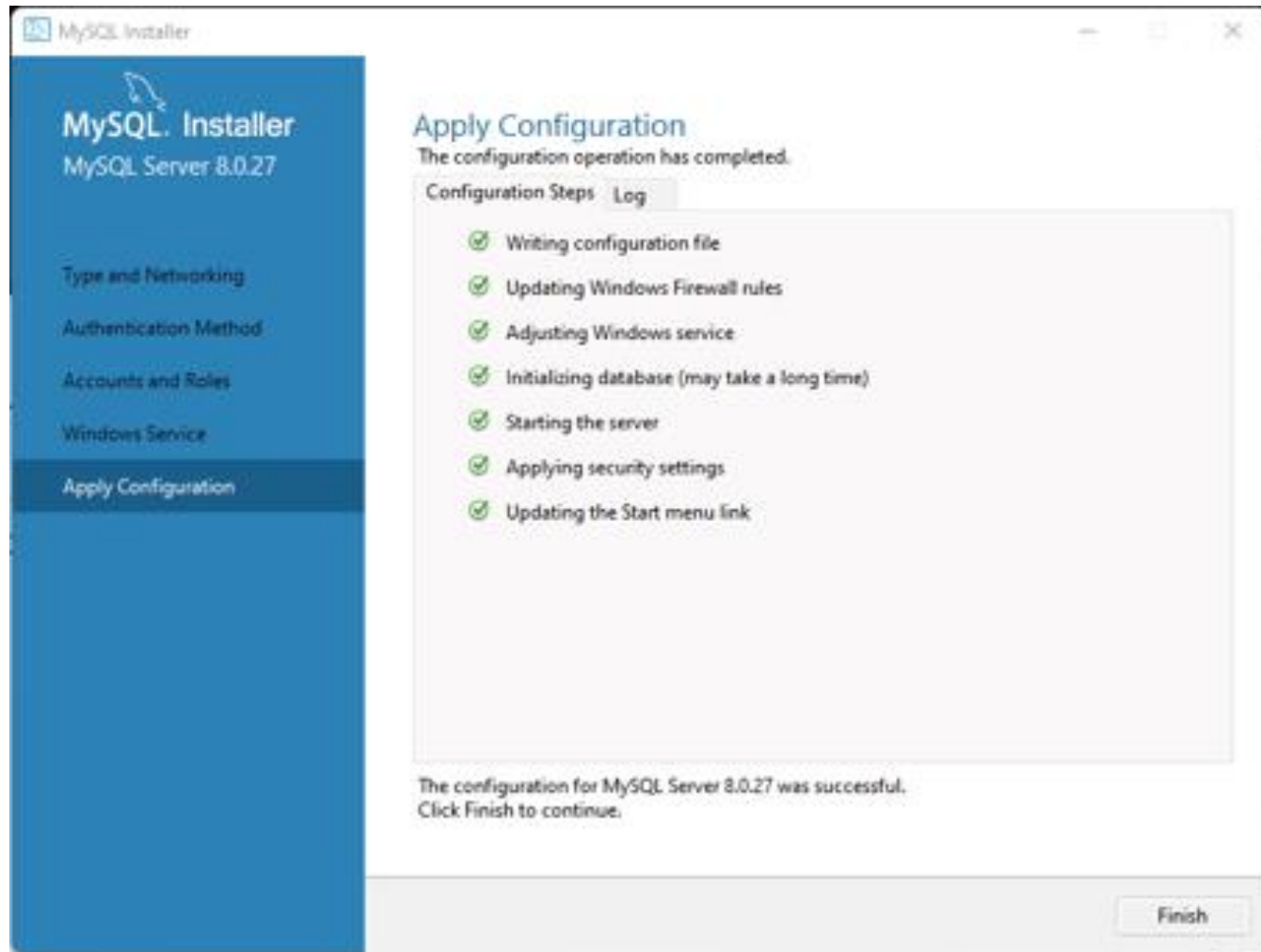
Buttons: Add User, Edit User, Delete

Navigation: < Back, Next >, Cancel

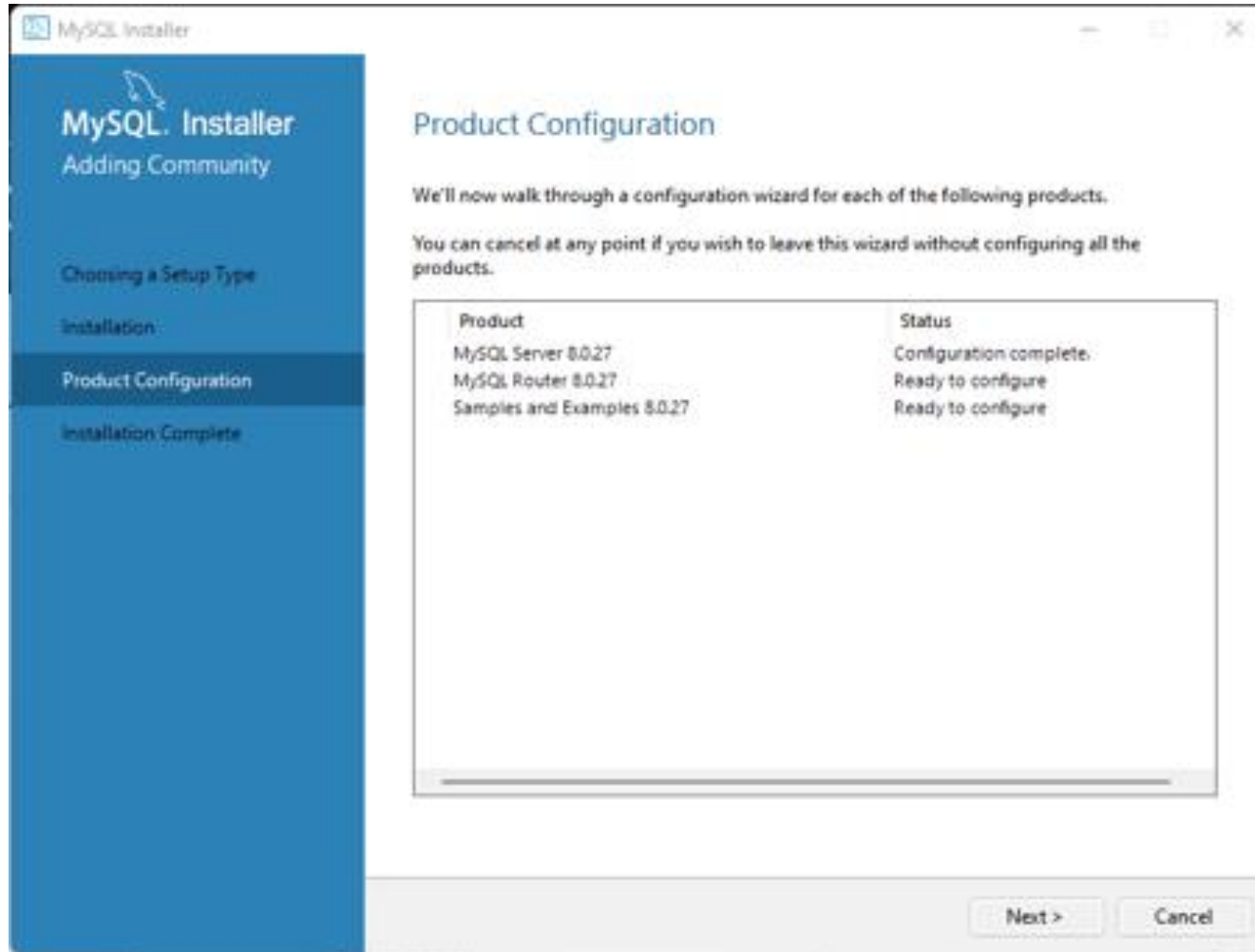
# Configure MySQL Service



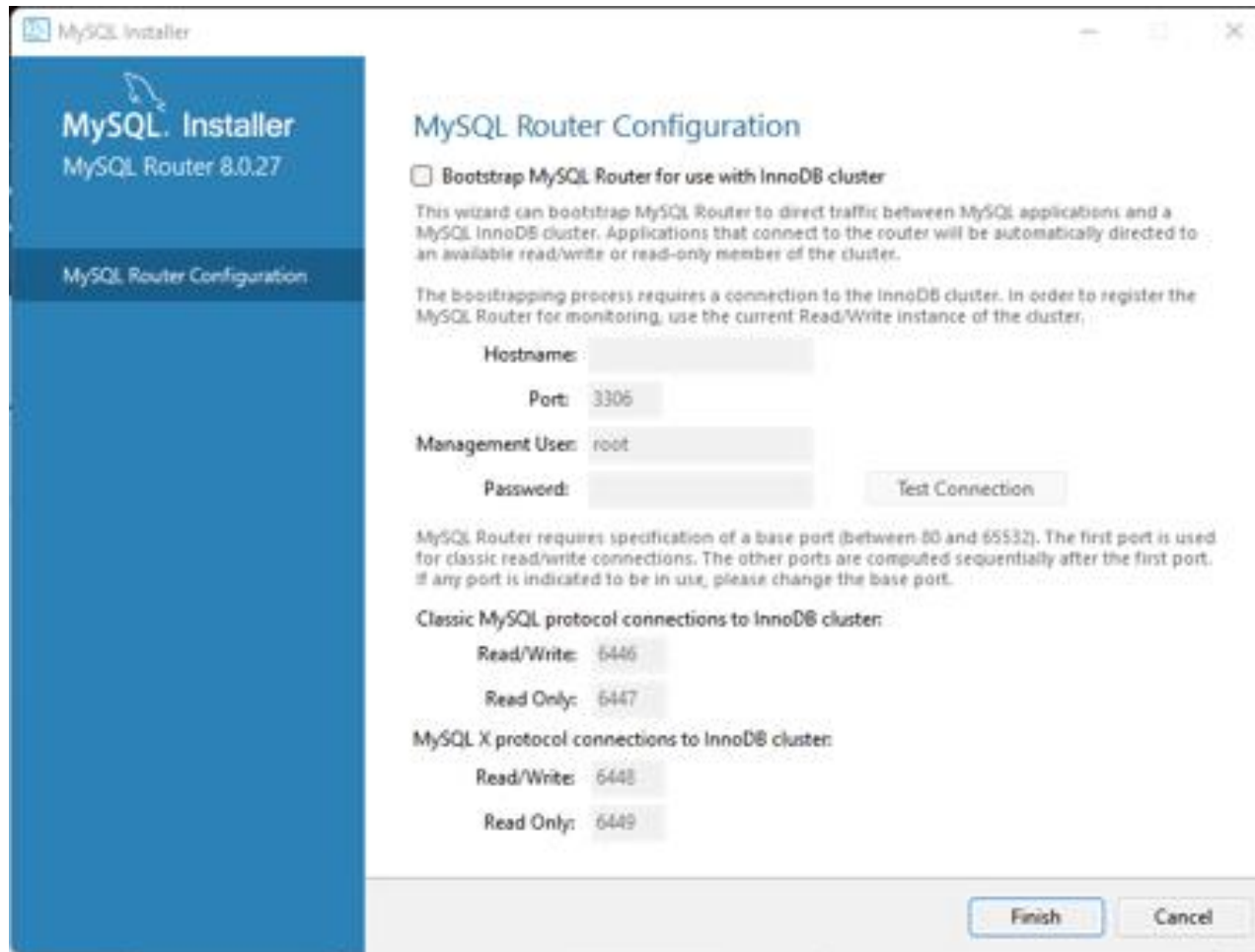
# Apply Configuration



# Continue Configuration



# Router Configuration



The image shows the MySQL Router 8.0.27 configuration window. The left sidebar has a blue header with the MySQL logo and 'MySQL Installer' text, followed by 'MySQL Router 8.0.27'. Below this is a dark blue bar with 'MySQL Router Configuration'. The main area is titled 'MySQL Router Configuration' and contains a checkbox for 'Bootstrap MySQL Router for use with InnoDB cluster'. Below the checkbox is a paragraph explaining the wizard's purpose. Then, there's a paragraph about the bootstrapping process. Below that are input fields for 'Hostname:', 'Port: 3306', 'Management User: root', and 'Password:'. A 'Test Connection' button is next to the password field. Below these fields is a paragraph about port specification. Then, there are two sections: 'Classic MySQL protocol connections to InnoDB cluster:' with 'Read/Write: 6446' and 'Read Only: 6447', and 'MySQL X protocol connections to InnoDB cluster:' with 'Read/Write: 6448' and 'Read Only: 6449'. At the bottom right are 'Finish' and 'Cancel' buttons.

MySQL Installer  
MySQL Router 8.0.27

MySQL Router Configuration

☐ 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:



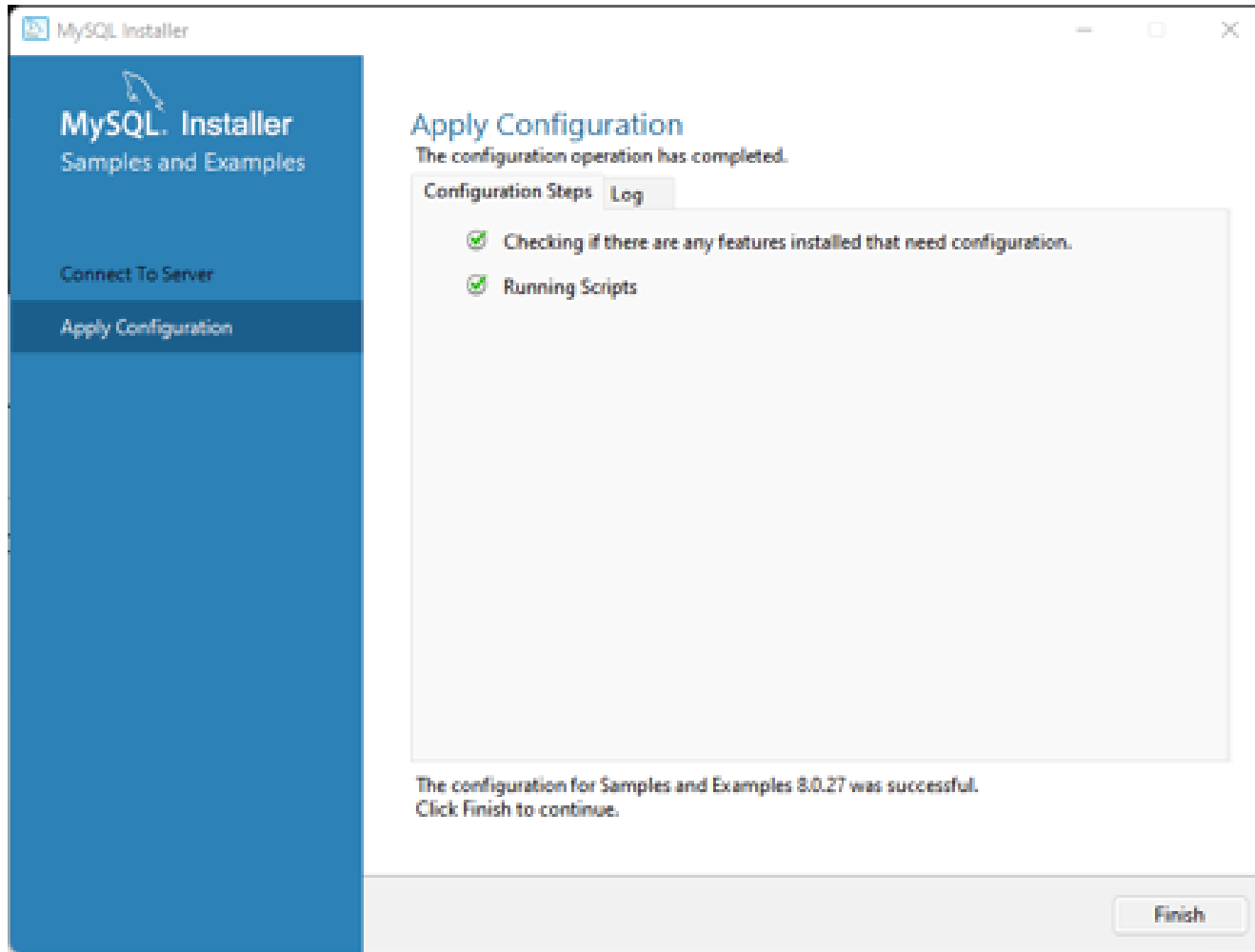
# Check Server Connection

The screenshot shows the 'Connect To Server' window in the MySQL Installer. The left sidebar has three options: 'MySQL. Installer Samples and Examples', 'Connect To Server' (which is selected), and 'Apply Configuration'. The main area is titled 'Connect To Server' and contains the instruction: 'Select the MySQL server instances from the list to receive sample schemas and data.' Below this is a table with the following data:

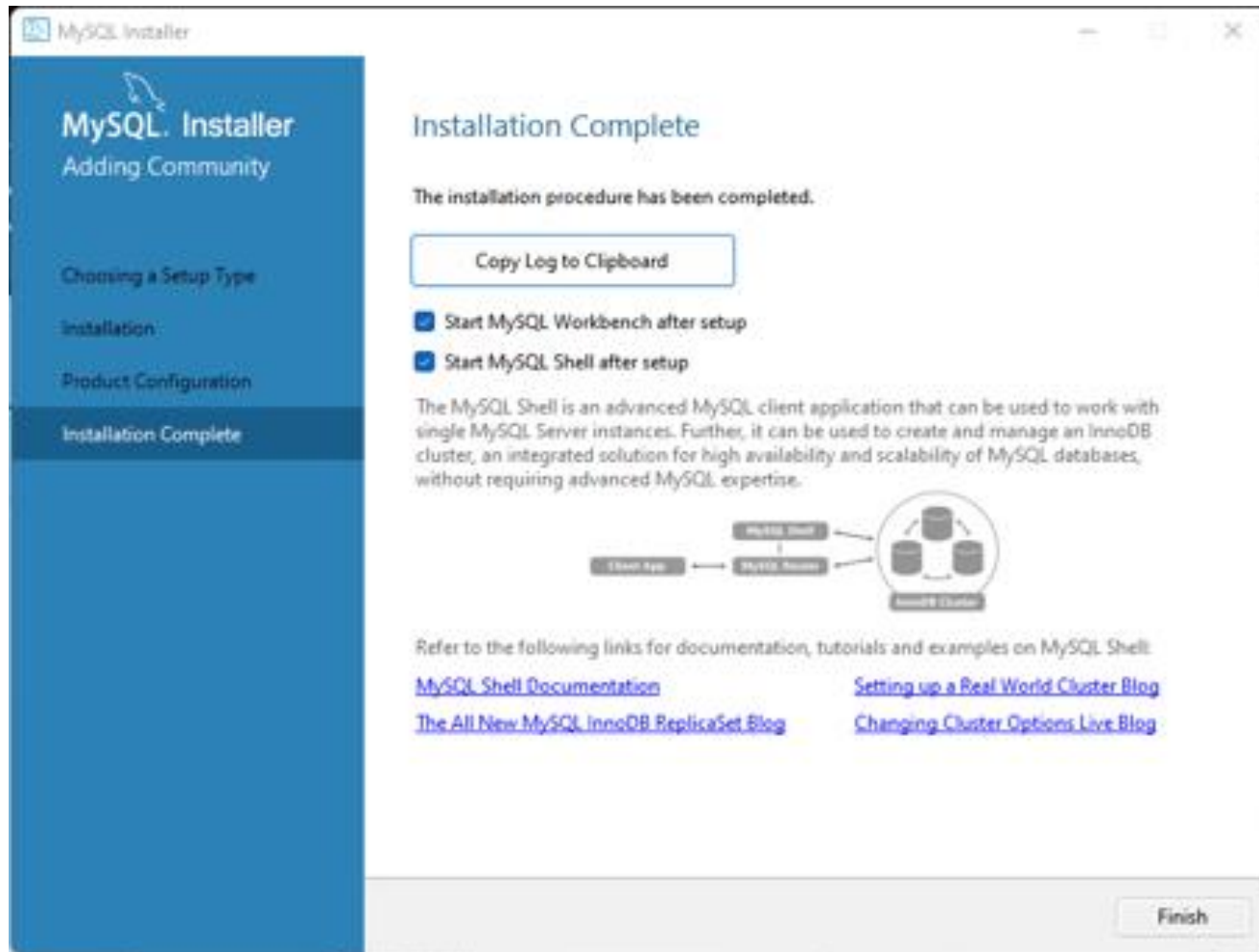
Server	Port	Arch...	Type	Status
<input checked="" type="checkbox"/> MySQL Server 8.0.27	3306	X64	Stand-alone Server	Connection succeeded.

Below the table, there is a text prompt: 'Provide the credentials that should be used (requires root privileges). Click "Check" to ensure they work.' This is followed by two input fields: 'User name: root' and 'Password: [masked]'. To the right of the password field is the text 'Credentials provided in Server configuration'. Below these fields is a 'Check' button with a green checkmark icon next to it. At the bottom right of the window are 'Next >' and 'Cancel' buttons.

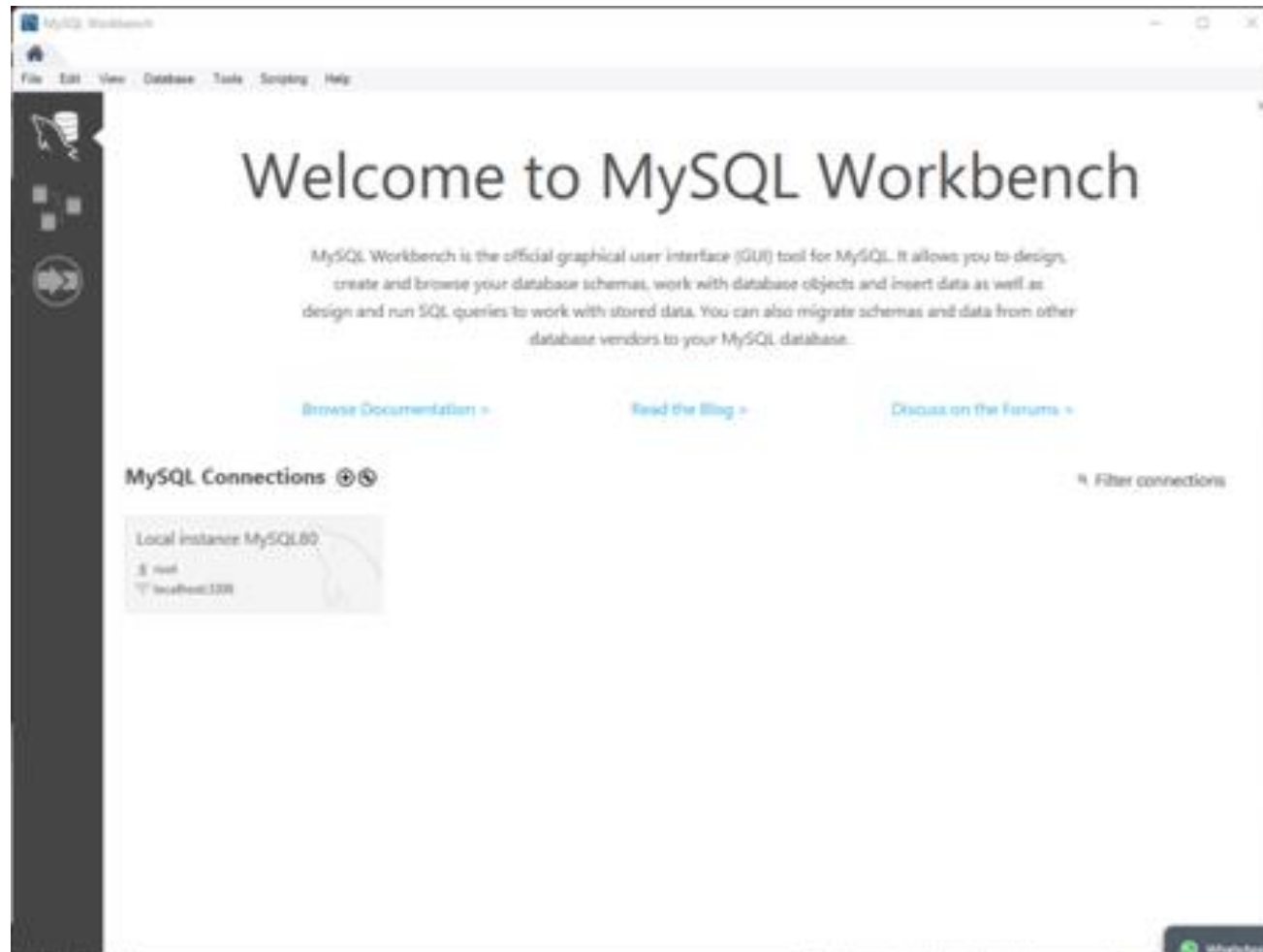
# Apply Configuration



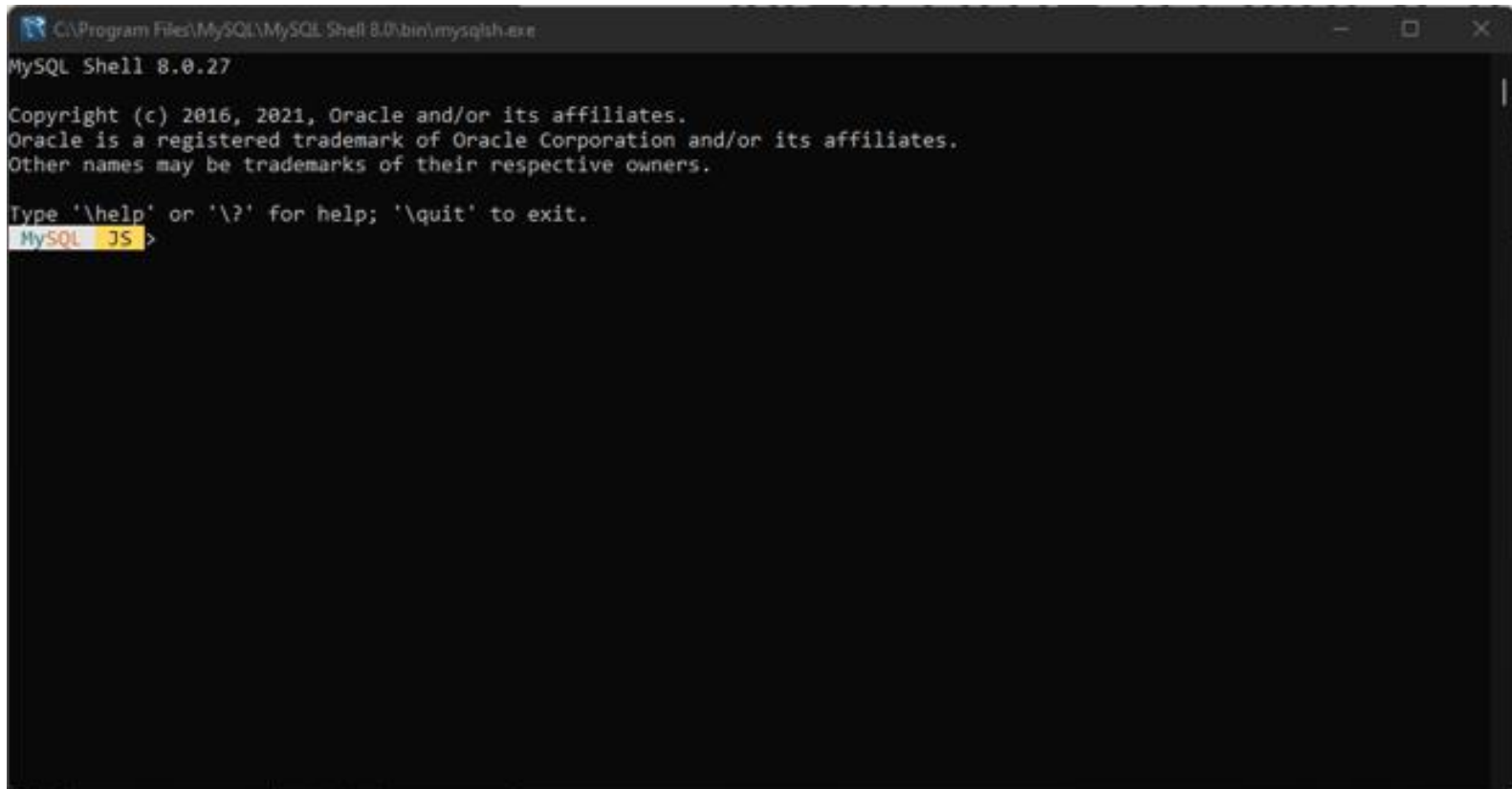
# Finish Installation



# MySQL Workbench



# MySQL Shell



```
C:\Program Files\MySQL\MySQL Shell 8.0\bin\mysqlsh.exe
MySQL Shell 8.0.27

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Other names may be trademarks of their respective owners.

Type '\help' or '\?' for help; '\quit' to exit.
MySQL JS >
```

The image shows a Windows command prompt window titled "C:\Program Files\MySQL\MySQL Shell 8.0\bin\mysqlsh.exe". The window displays the MySQL Shell 8.0.27 startup screen. It includes copyright information for Oracle (c) 2016, 2021, and instructions to type '\help' or '\?' for help, and '\quit' to exit. The prompt "MySQL JS >" is visible at the bottom.