

# Starter Kit: Relational Databases Preparation

Wrocław

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Lat update: 2021-02-13

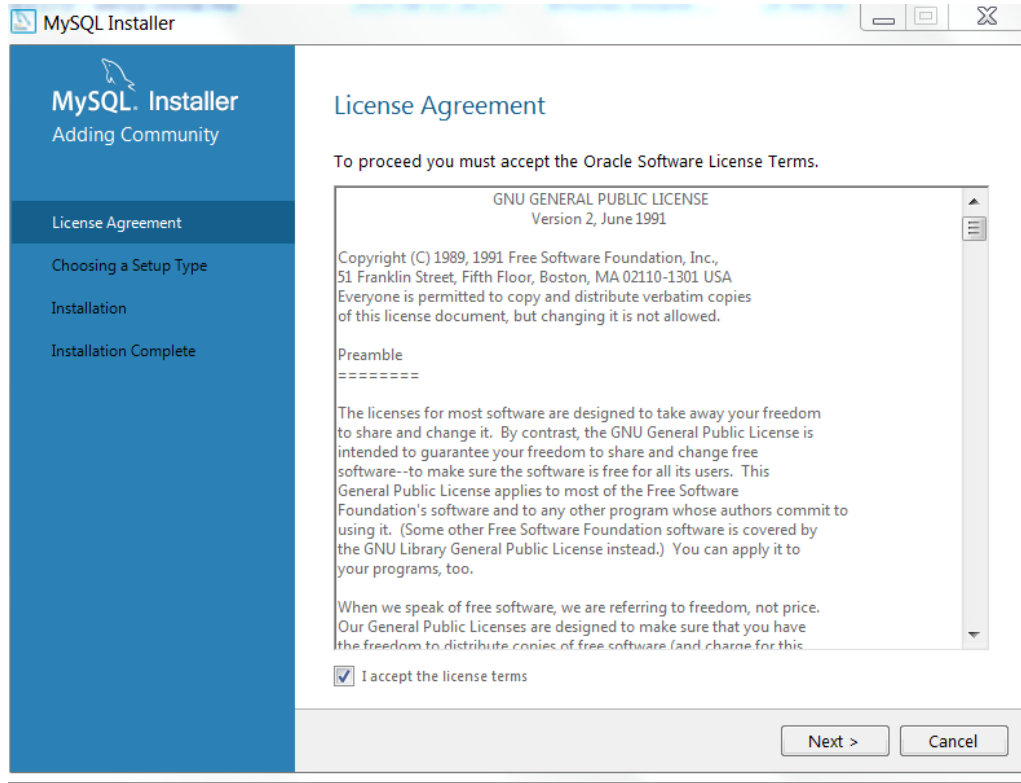
# Before we begin

1. Download installer for MySQL Server & MySQL Workbench
  - a) Smaller file is online installer – it will download data from the internet
  - b) Bigger file is offline installer – it should have all necessary thingsIf You are facing any issue – please follow instruction on MySQL WWW page
2. Follow instructions on the next slide (screenshots comes from version 8.0.13 and 8.0.17)
3. Profit

There are of course differences between version, so please make sure that You agreed with the lecturer versions, which You will be work with during this course.

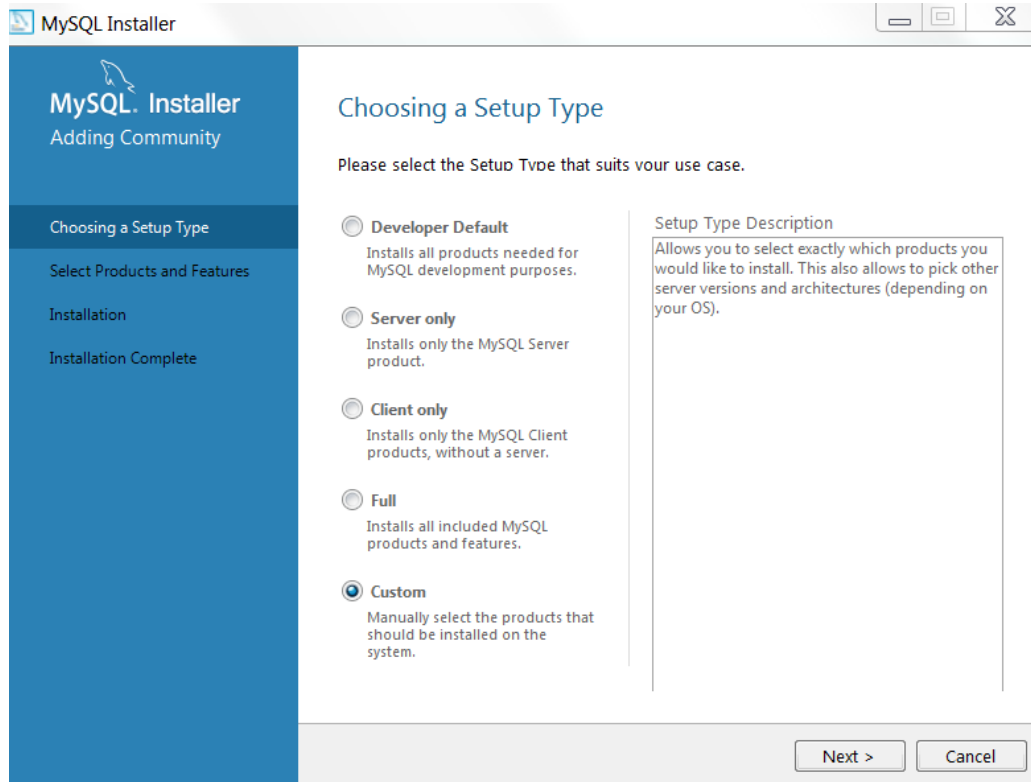
2021-02-13: current version: 8.0.23

# Installing MySQL DB & Workbench



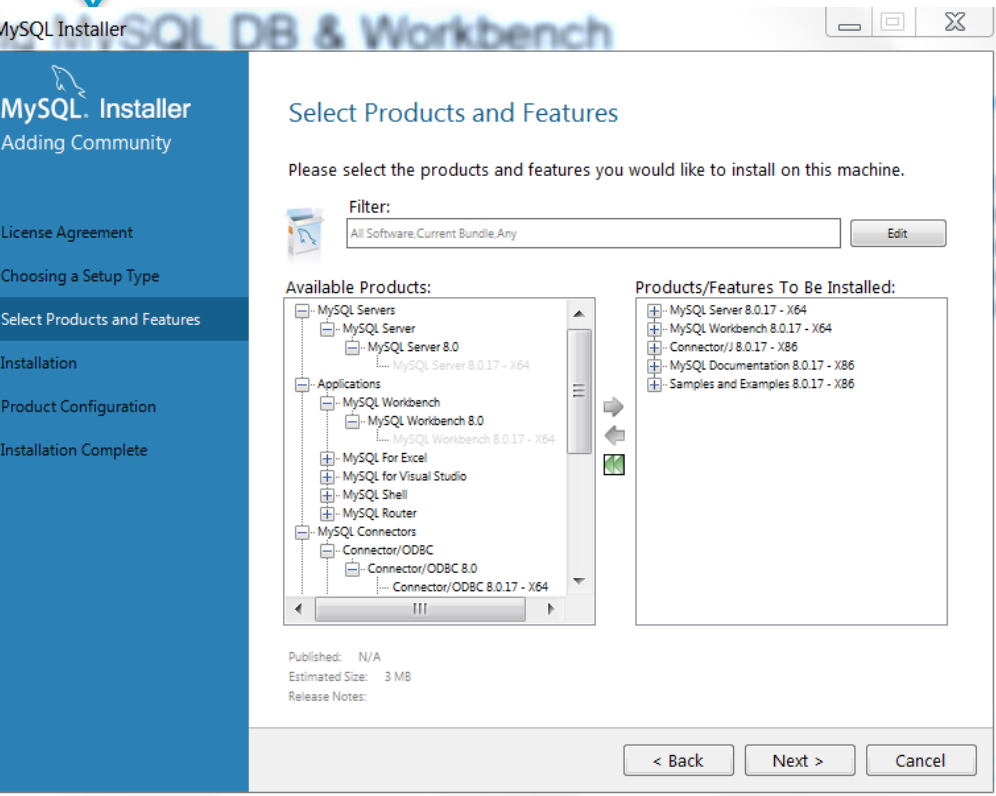
Read & accept license terms.  
Click „Next”

# Installing MySQL DB & Workbench



Select „Custom” and click „Next”

# Installing MySQL DB & Workbench



Include products from Screenshot:

## Mandatory:

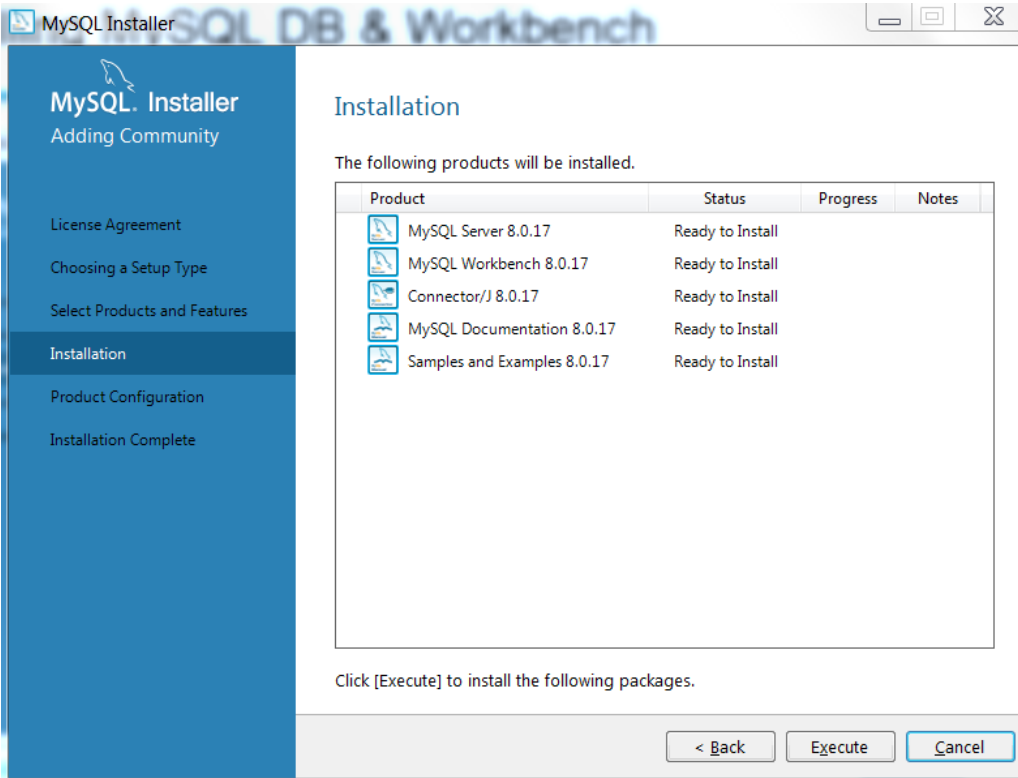
1. MySQL Server
2. Applications
  1. MySQL Workbench

## Others:

1. MySQL Connectors
  1. Connector/J
2. Documentation
  1. MySQL Documentation
  2. Samples and Examples

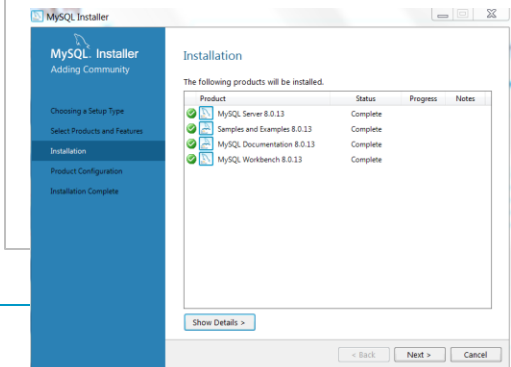
Hint: You have to click the most bottom node on the list to enable ,right arrow' (Products/Features To Be Installed)

# Installing MySQL DB & Workbench

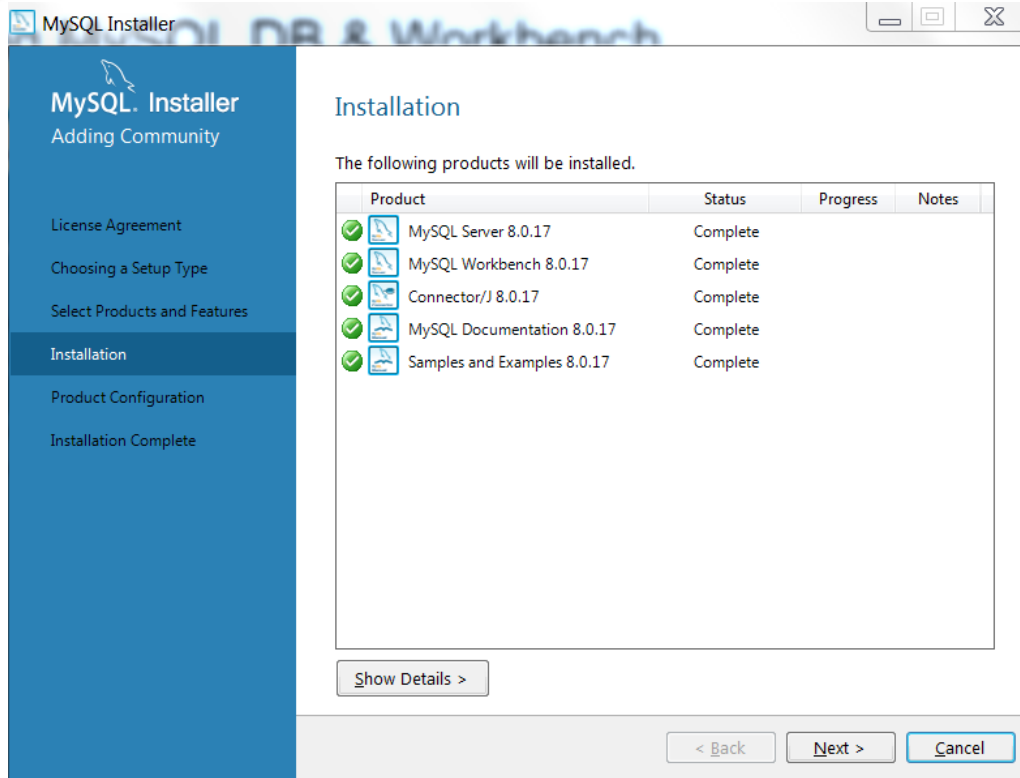


Be sure, that selected products are on the list and click „Execute”.

If You are using „web installer”, selected products will be downloaded.  
After everything will be downloaded, You will notice that there is a „Next” button available (previously there was „Execute”)



# Installing MySQL DB & Workbench

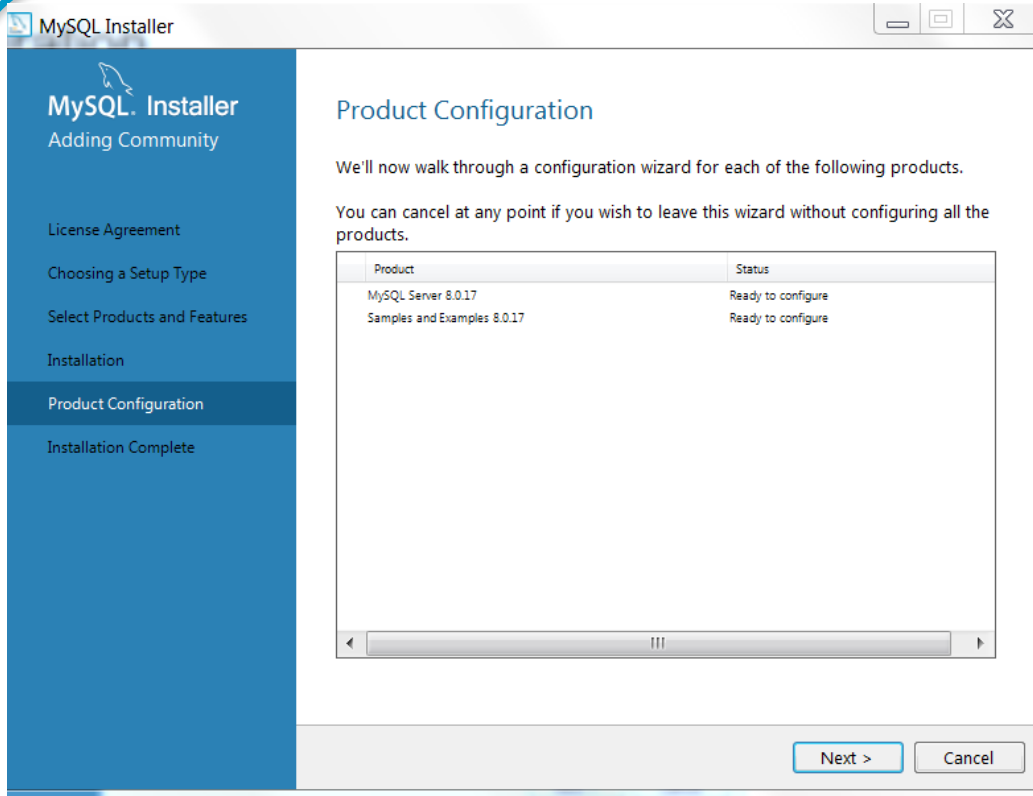


If You are using „web installer”, selected products will be downloaded.

After everything will be downloaded, You will notice that there is a „Next” button available (previously there was „Execute”).

Click „Next”

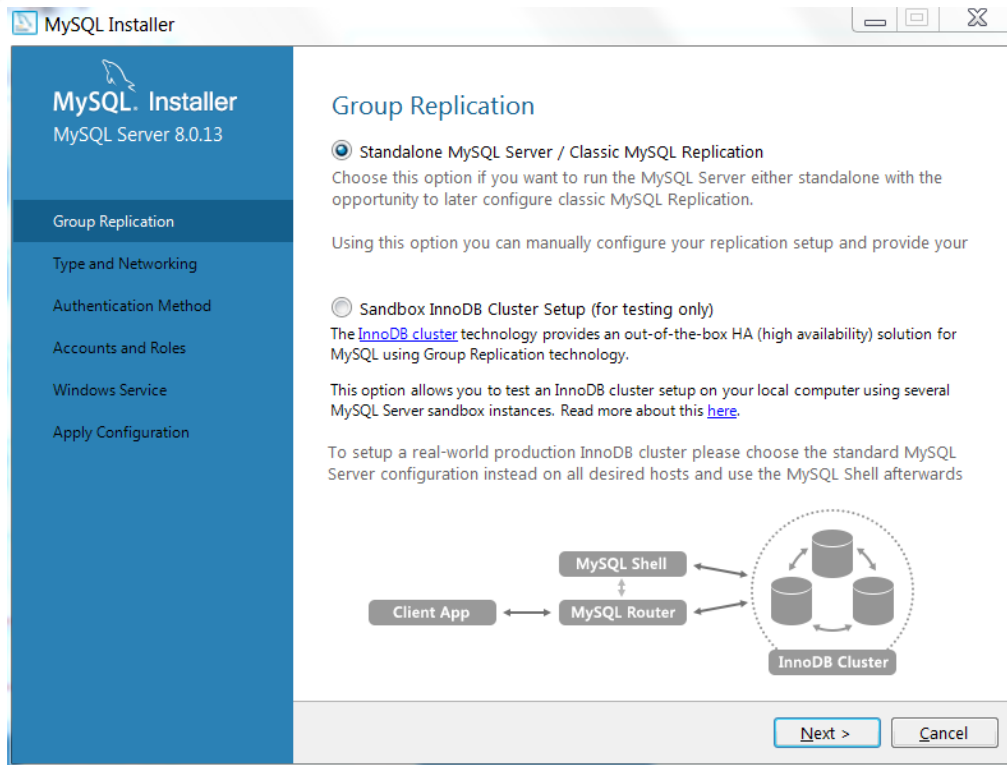
# Configuration



You will be notified, that there are some things, which should be configured.

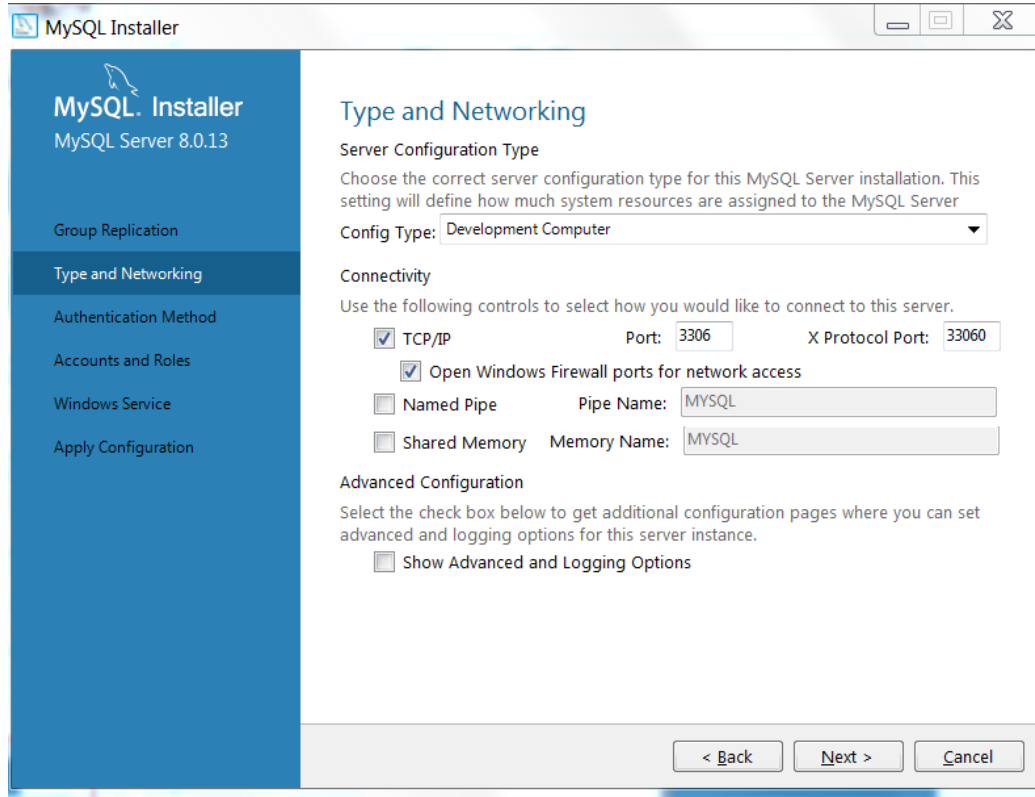


# Configuration of MySQL Server



Choose „Standalone MySQL Server / Classic MySQL Replication” and click „Next”

# Configuration of MySQL Server



The screenshot shows the 'MySQL Installer' window for 'MySQL Server 8.0.13'. The left sidebar contains navigation links: 'Group Replication', '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:

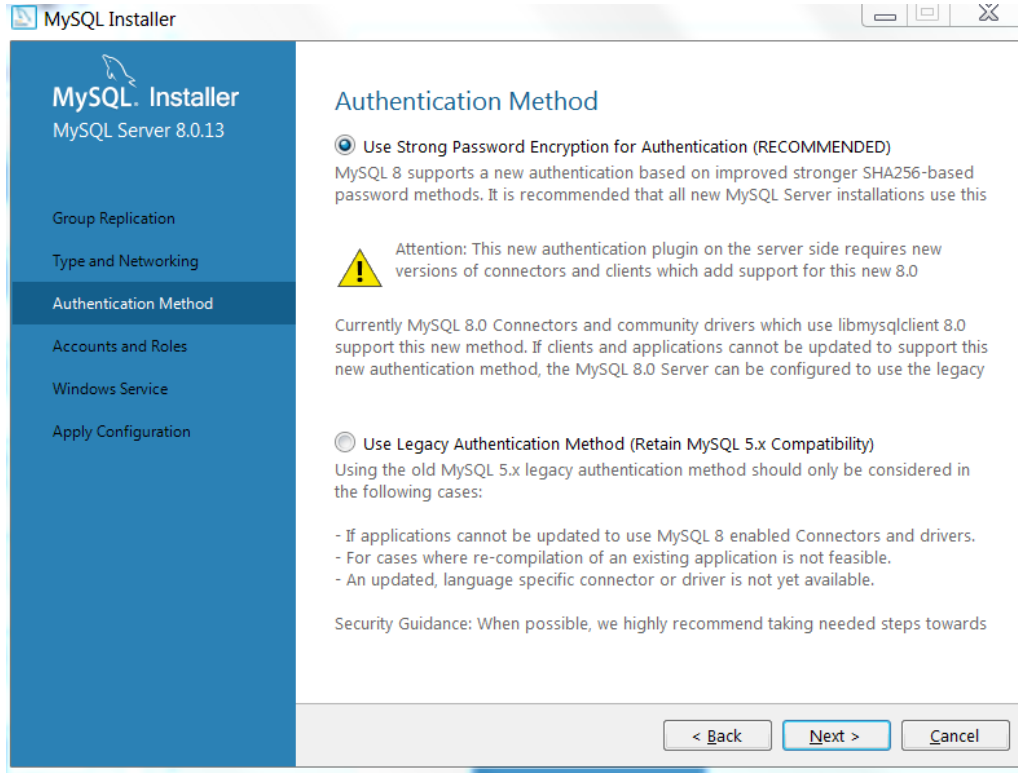
- Server Configuration Type**: A dropdown menu set to 'Development Computer'. Below it is a note: 'Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server.'
- Connectivity**: A section with the instruction 'Use the following controls to select how you would like to connect to this server.' It includes:
  - ☒ 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**: A section with the instruction 'Select the check box below to get additional configuration pages where you can set advanced and logging options for this server instance.' It includes:
  - ☐ Show Advanced and Logging Options

At the bottom right are three buttons: '< Back', 'Next >', and 'Cancel'.

Default port is set to 3306.

Use default settings and click „Next”

# Configuration of MySQL Server



Select default option „Use Strong Password Encryption for Authentication” and click „Next”

# Configuration of MySQL Server

The screenshot shows the MySQL Installer window for MySQL Server 8.0.17. The left sidebar lists the installation steps: High Availability, 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. The first section, 'Root Account Password', prompts the user to enter a password for the root account. It includes two input fields for 'MySQL Root Password' and 'Repeat Password', both masked with dots. Below these fields, the 'Password strength' is indicated as 'Weak' in red text. The second section, 'MySQL User Accounts', instructs the user to create MySQL user accounts and assign roles. It features a table with columns for 'MySQL User Name', 'Host', and 'User Role'. To the right of the table are three buttons: 'Add User' (highlighted in blue), 'Edit User', and 'Delete User'. At the bottom of the window are three navigation buttons: '< Back', 'Next >', and 'Cancel'.

MySQL Installer

MySQL Server 8.0.17

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

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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[Add User](#)

[Edit User](#)

[Delete User](#)

< Back   Next >   Cancel

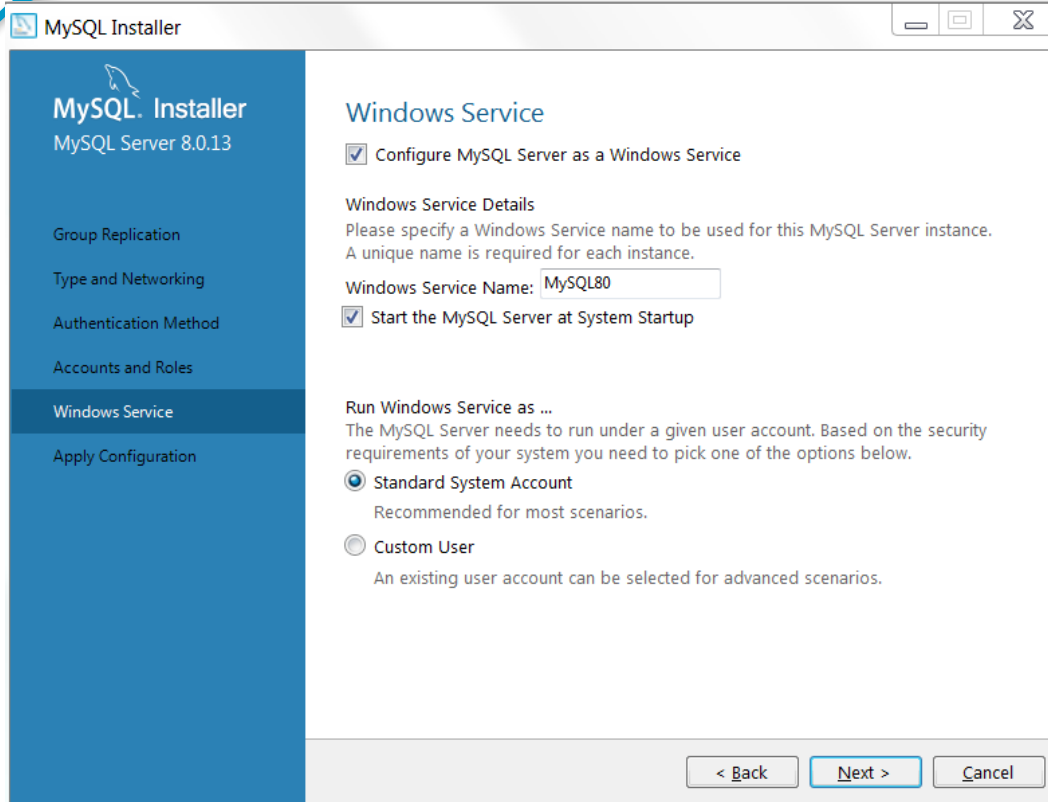
Choose a password for root account.

**Important:** remember the password!

**Hint:** Because it's a dev environment, You can pick some easy password like 'root' for user 'root' or use some Password Managers like KeePass to store Your password.

Click „Next”

# Configuration of MySQL Server



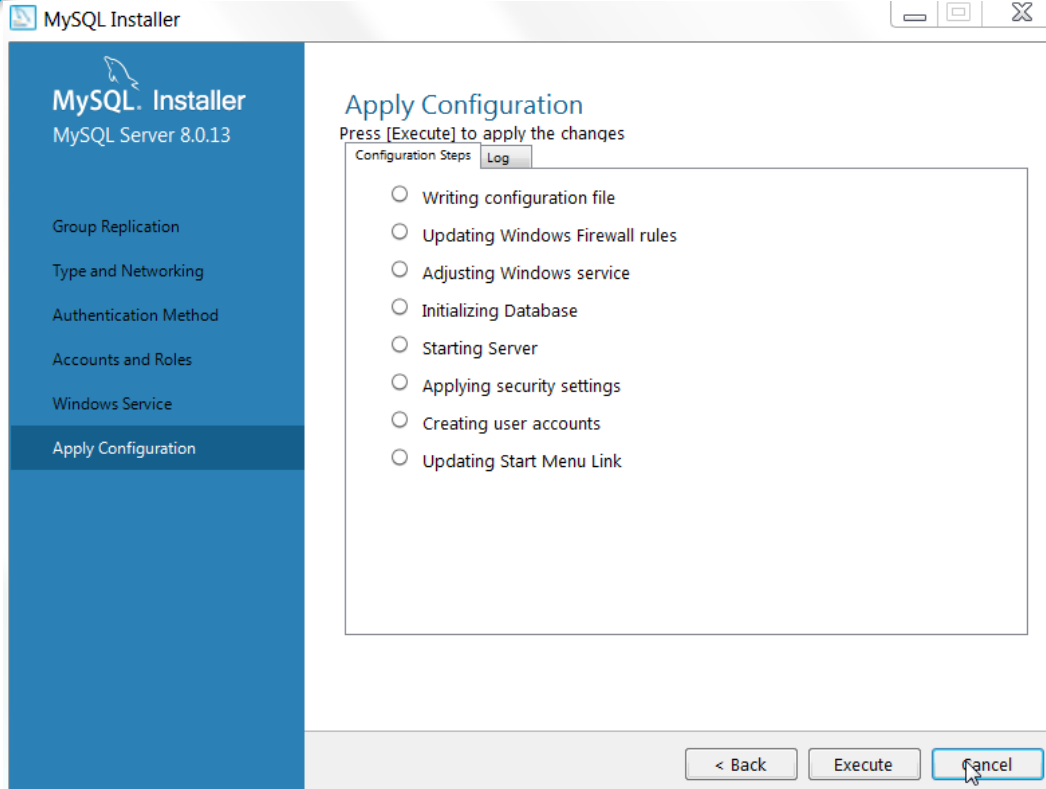
Use default settings.

This means, that MySQL Server will start work after You will start Your computer. It will be installed as a service with name „MySQL80”.

You will be able to change those settings later: Win+R => services.msc => find „MySQL80” and edit.

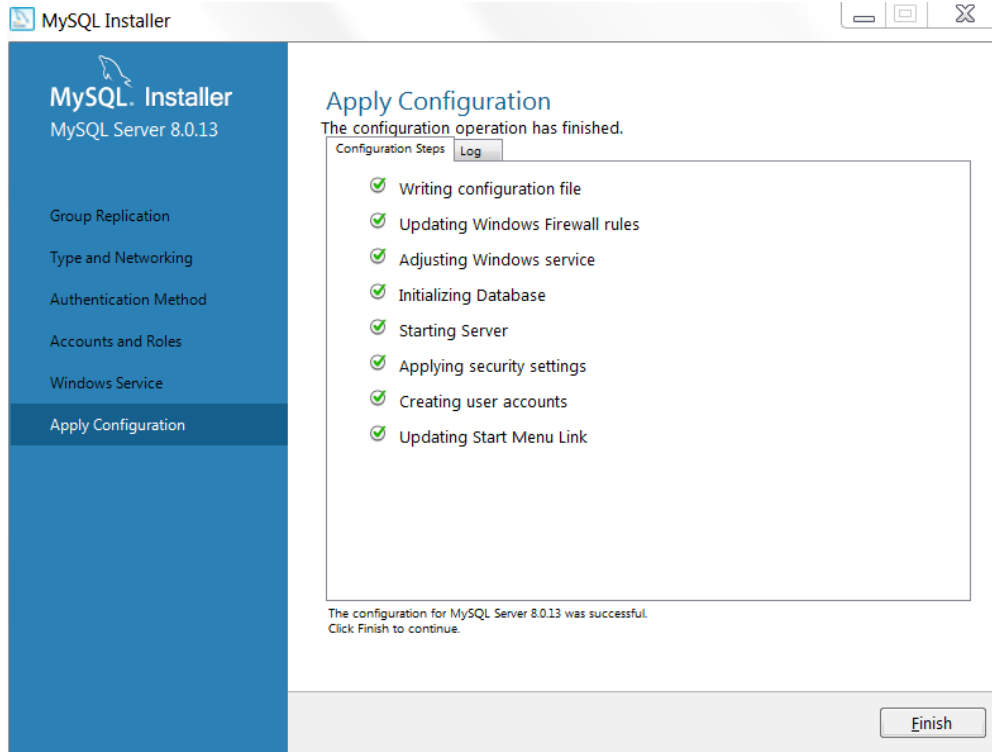
Name	Description	Status	Startup Type	Log On As
MySQL80		Started	Automatic	Network Service

# Configuration of MySQL Server



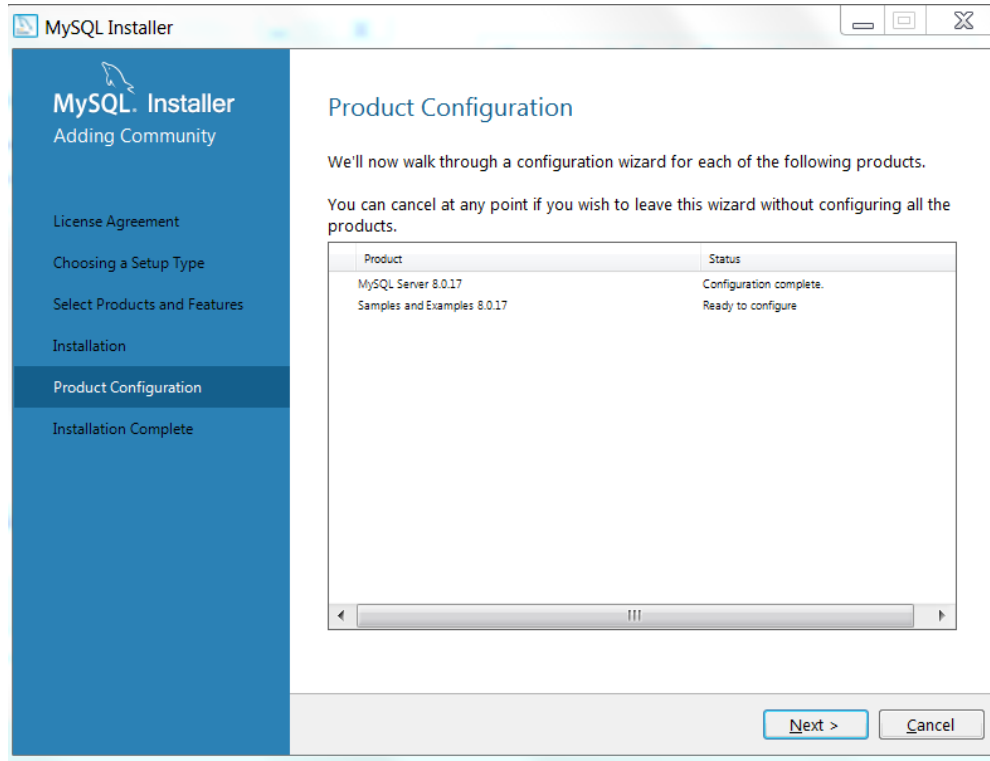
Apply configuration by clicking „Execute”

# Configuration of MySQL Server



After success click „Finish”

# Configuration



If we installed „Samples and Examples” – we will be able to configure them as well.



# Configuration of Samples

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	Archit...	Type	Status
<input checked="" type="checkbox"/>	MySQL Server 8.0.17	3306	X64	Stand-alone Server	Connection succeeded.

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

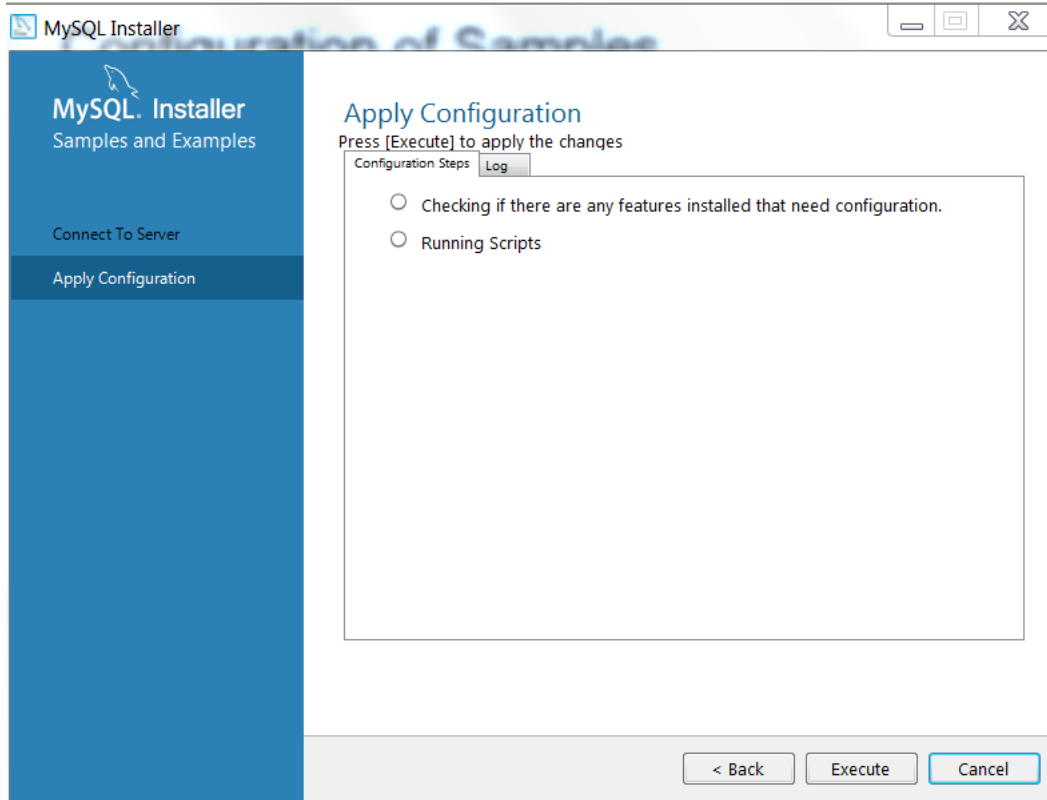
User name:  Credentials provided in Server configuration

Password:

Make sure that Your Server is listed on the list.  
In the field „Password” provide password, which was chosen for root and click „Check”.  
The green status „Connection succeeded” should appears next to listed MySQL Server.

Click „Next”

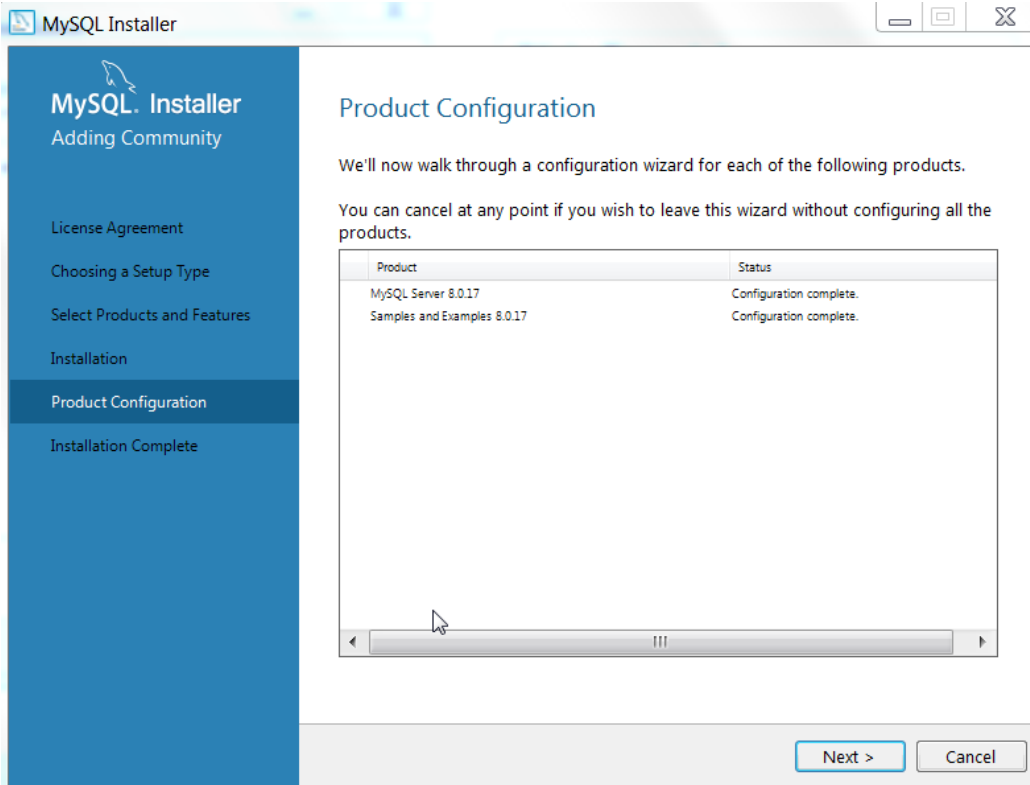
# Configuration of Samples



Click „Execute”.  
Wait for installation and click  
„Finish”.

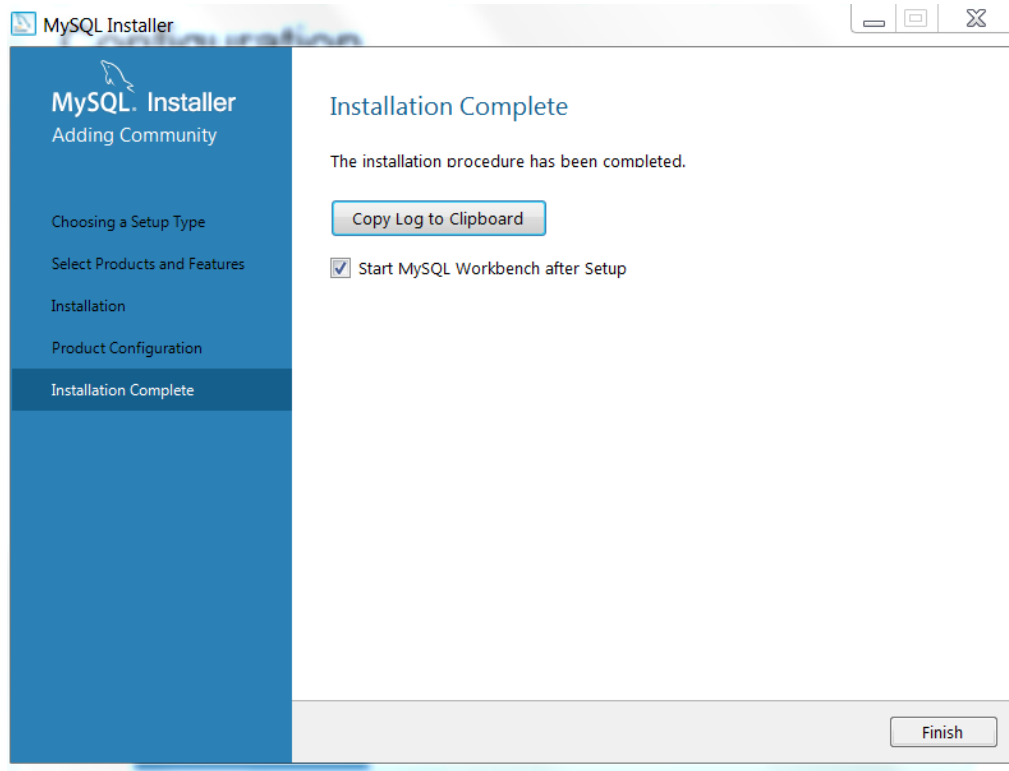
Next window will show, that all  
things were configured. Click  
„Next” to proceed.

# Configuration of Samples



Click „Next”

# Configuration



Done.  
You should be able to work.  
Click „Finish” to close the window.

If You have chosen „Start MySQL Workbench after Setup”, MySQL Workbench application will be opened.

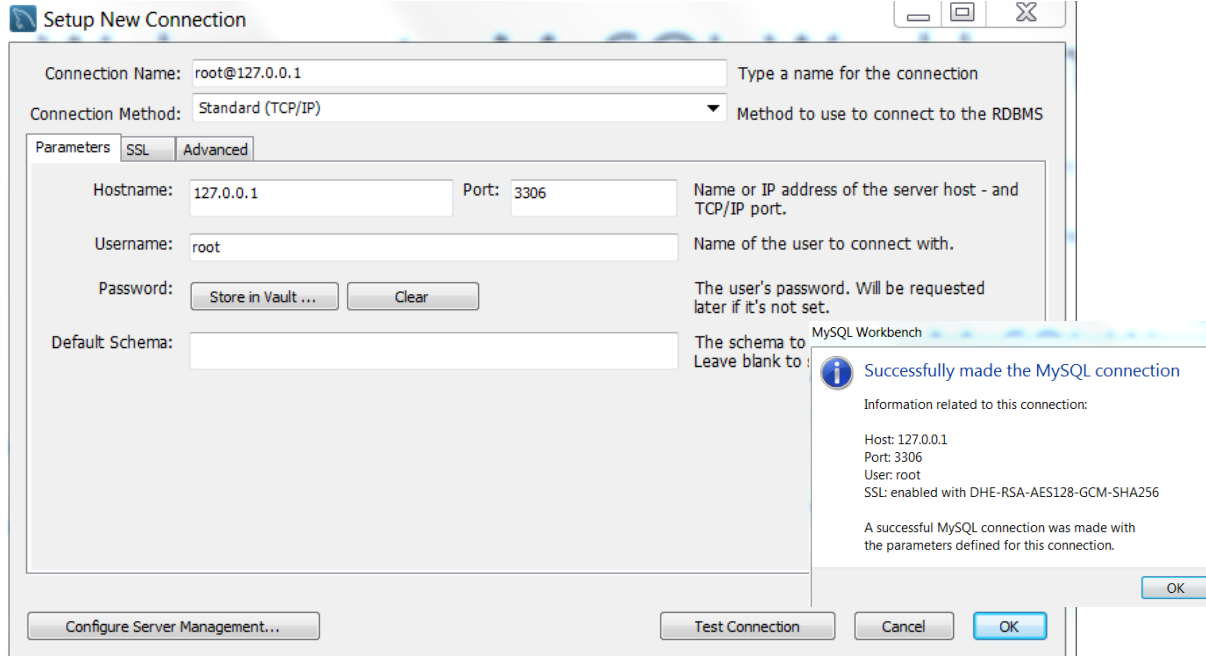
# Configuration of MySQL Workbench



Open MySQL Workbench application.

Click icon „+” next to text „MySQL Connection” and go to the next slide.

# Configuration of MySQL Workbench



Default settings should be enough to configure.

If not:

- 1) make sure that hostname points to Your server (localhost = 127.0.0.1)
- 2) Port is the same, which You have chosen during Configuring MySQL Server (default: 3306)
- 3) For purpose of this Workshop, You can „Store in Vault” password for Your account

Check connection with „Test Connection” and verify, that it works

# Configuration of MySQL Workbench



Your connection should be visible in the list of available connections.

You can double click on it to connect to database.

People matter, results count.

Dziękuję za uwagę

[www.capgemini.com](http://www.capgemini.com)

