

# Base de Datos y Modelado

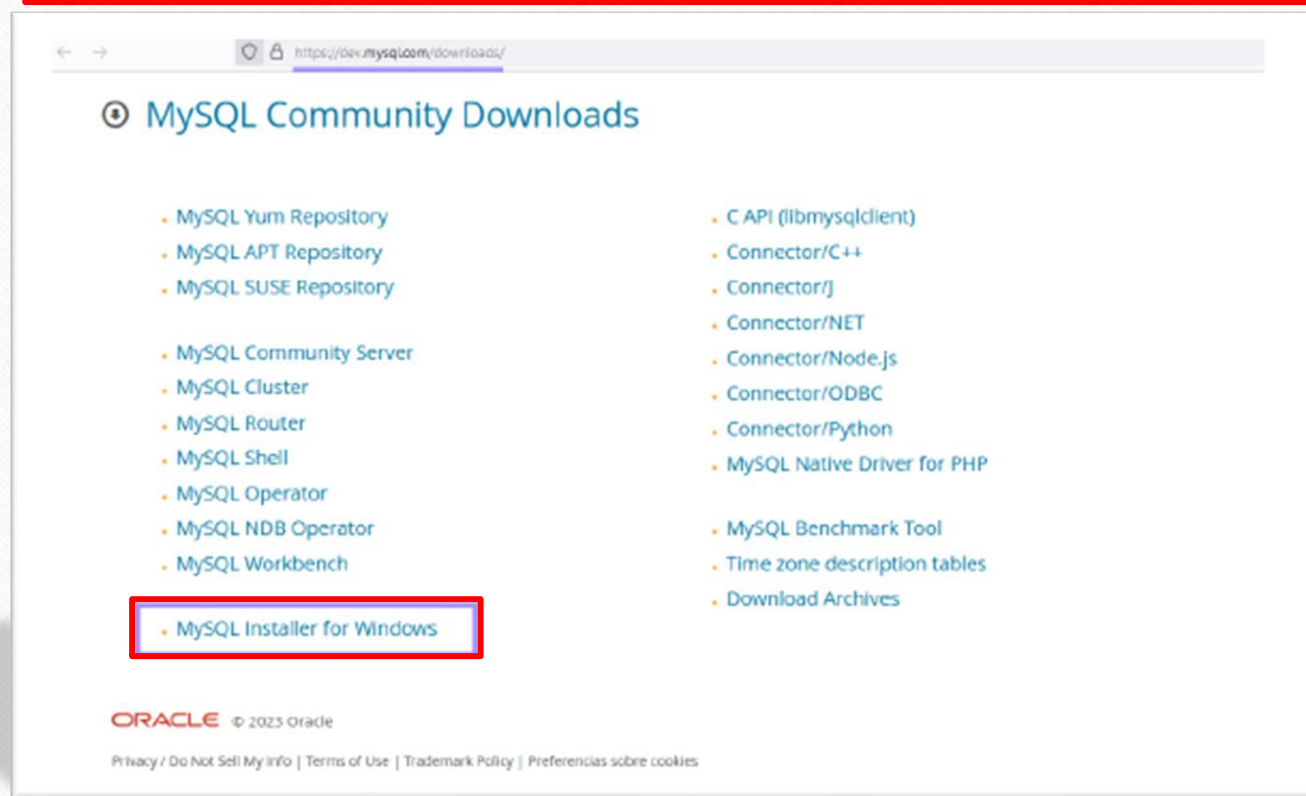
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Instalación MySQL Server



Vamos a usar la versión Community de MySQL, esta es la versión gratuita tanto para descargar, como para usar. Está disponible bajo la licencia GPL.

Para instalar MySQL Server y los demás productos que necesitamos, vamos a usar MySQL Installer, un programa que administra la instalación de productos de MySQL en nuestra PC. Se puede descargar de la página: <https://dev.mysql.com/downloads/>



## ⊕ MySQL Community Downloads

**Login Now or Sign Up for a free account.**

An Oracle Web Account provides you with the following advantages:

- Fast access to MySQL software downloads
- Download technical White Papers and Presentations
- Post messages in the MySQL Discussion Forums
- Report and track bugs in the MySQL bug system

**Login »**

using my Oracle Web account

**Sign Up »**

for an Oracle Web account

MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the instructions.

**No thanks, just start my download.**

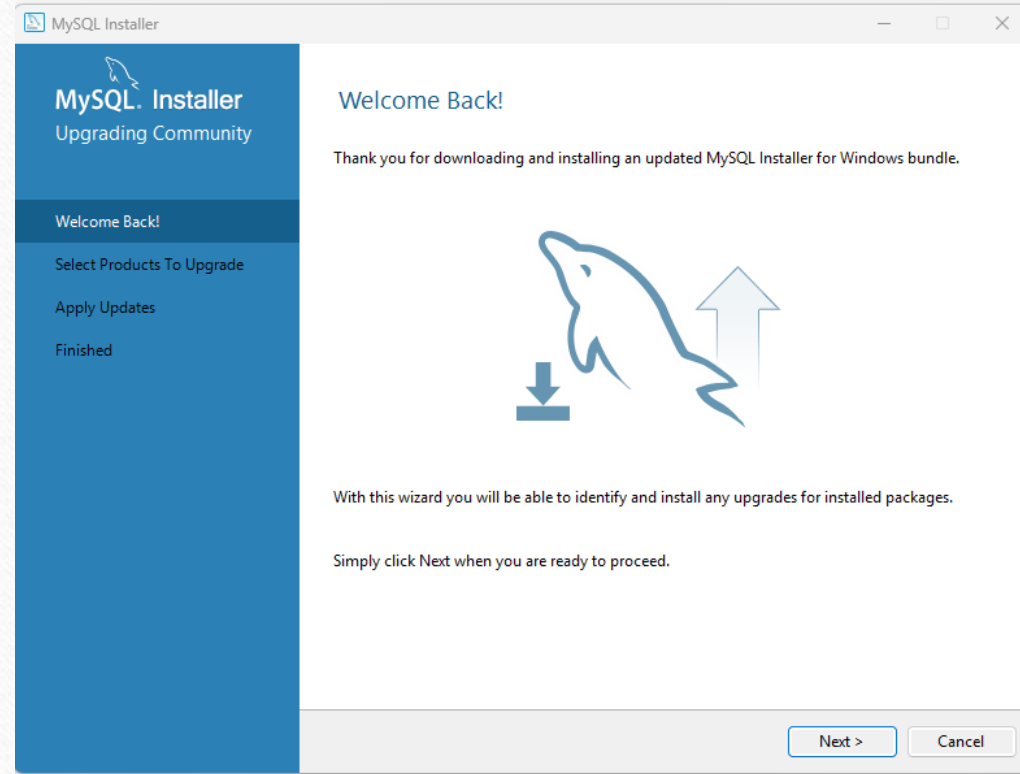
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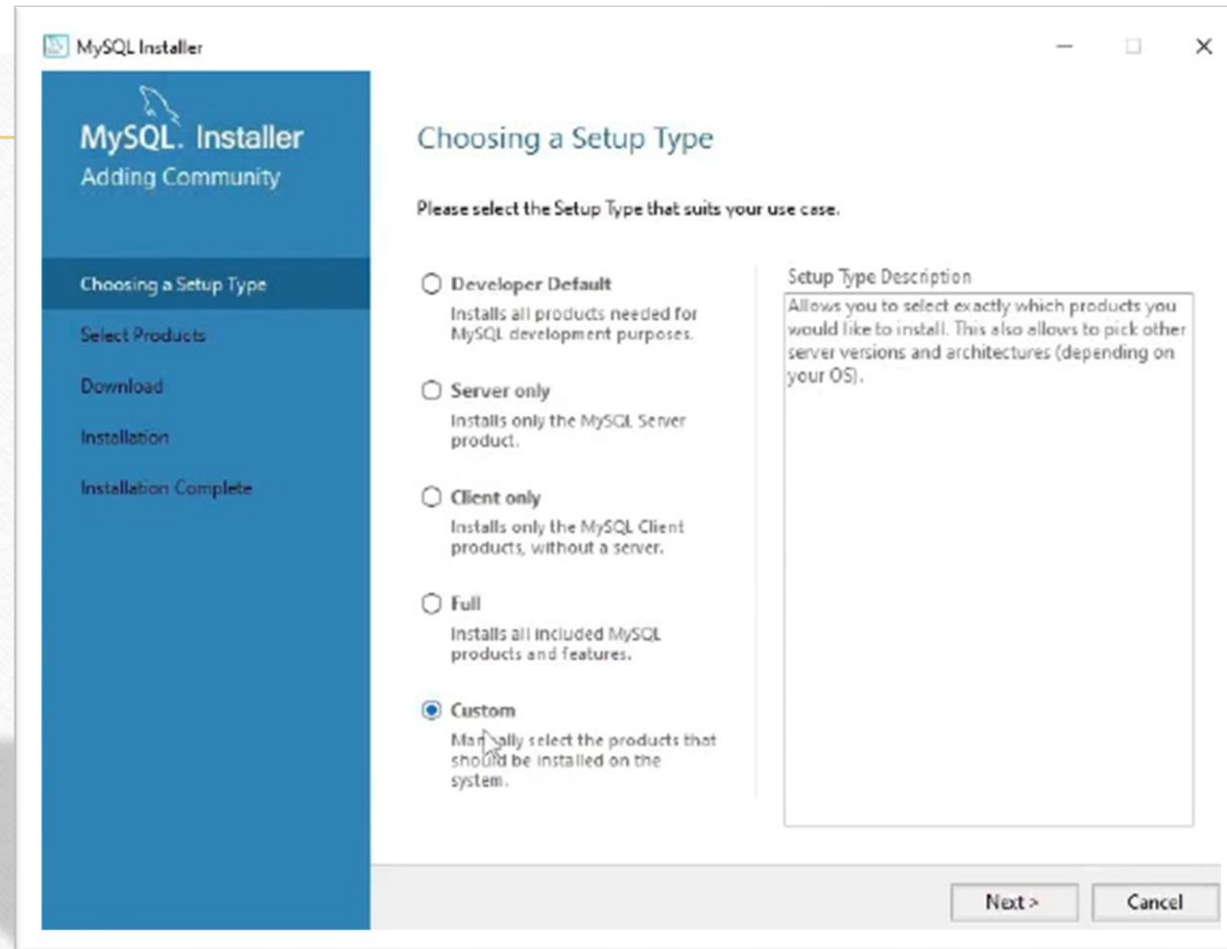


# Ahora si permitimos que la aplicación haga cambios en el equipo

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Una vez descargado MySQL Installer, al ejecutarlo nos permitirá instalar sus productos mediante algún paquete preestablecido o de forma manual personalizada (Custom).





Si elegimos la opción Custom podremos seleccionar qué productos vamos a instalar, sin agregar productos que no necesitamos. En esta materia vamos a utilizar los siguientes productos:

- **MySQL Server:** el servidor propiamente dicho. Además, instala automáticamente un cliente de línea de comandos.
- **MySQL Workbench:** es una aplicación cliente con GUI, para trabajar con servidores MySQL, locales y remotos.
- **MySQL Connector/Python:** es una librería de Python que sirve para poder conectarse con un servidor y realizar consultas. **Es necesario tener instalado Python en el sistema** (y agregado al Path) para poder instalar esta librería, de otro modo, el instalador no nos permitirá instalarla. De cualquier manera, es posible instalar todos estos productos posteriormente, cuando se hayan cumplido con los requisitos necesarios.
- **Samples and Examples:** son bases de datos de prueba, diseñadas para ser usadas como ejemplos en libros, tutoriales, etc. Nosotros las vamos a utilizar tanto en la teoría como en la práctica.

# MySQL Installer

Adding Community

Choosing a Setup Type

Select Products

Installation

Product Configuration

Installation Complete

## Select Products

Please select the products you would like to install on this computer.



Filter:

All Software, Current Bundle, Any

Edit

### Available Products:

- Connector/ODBC
- Connector/C++
- Connector/J
- Connector/NET
- Connector/Python
  - Connector/Python 8.0
    - Connector/Python 8.0.33 - X64
    - Connector/Python 8.0.33 - X86
- Documentation
  - MySQL Documentation
  - Samples and Examples
    - Samples and Examples 8.0
    - Samples and Examples 8.0.33 - X64
    - Samples and Examples 8.0.33 - X86

### Products To Be Installed:

- MySQL Server 8.0.33 - X64
- MySQL Workbench 8.0.33 - X64
- Connector/Python 8.0.33 - X64
- Samples and Examples 8.0.33 - X86

☐ Enable the Select Features page to customize product features

[Advanced Options](#)

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Release Notes:

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Next >

Cancel



MySQL Installer

# MySQL. Installer

Upgrading Community

Welcome Back!

Select Products To Upgrade




Apply Updates

Product Configuration

Finished

## Apply Updates

The following products will be updated.

Upgrade	Arch	Status	Progress	Notes
 MySQL Server 8.0.42 (Upgradi...	X64	Complete		
 MySQL Workbench 8.0.42 (Up...	X64	Complete		
 Samples and Examples 8.0.42...	X86	Complete		

Show Details >

< Back

Next >

Cancel



# MySQL Installer

Upgrading Community

Welcome Back!

Select Products To Upgrade

Apply Updates

Product Configuration

Finished

## 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 8.0.42	Ready to configure
Samples and Examples 8.0.42	Ready to configure

Next >

Cancel



# MySQL. Installer

MySQL Server 8.0.42

Check and Upgrade Database

Apply Configuration

## Check and Upgrade Database

To maintain data integrity following a server upgrade, MySQL Installer must check your database and upgrade its system and data dictionary tables if necessary.

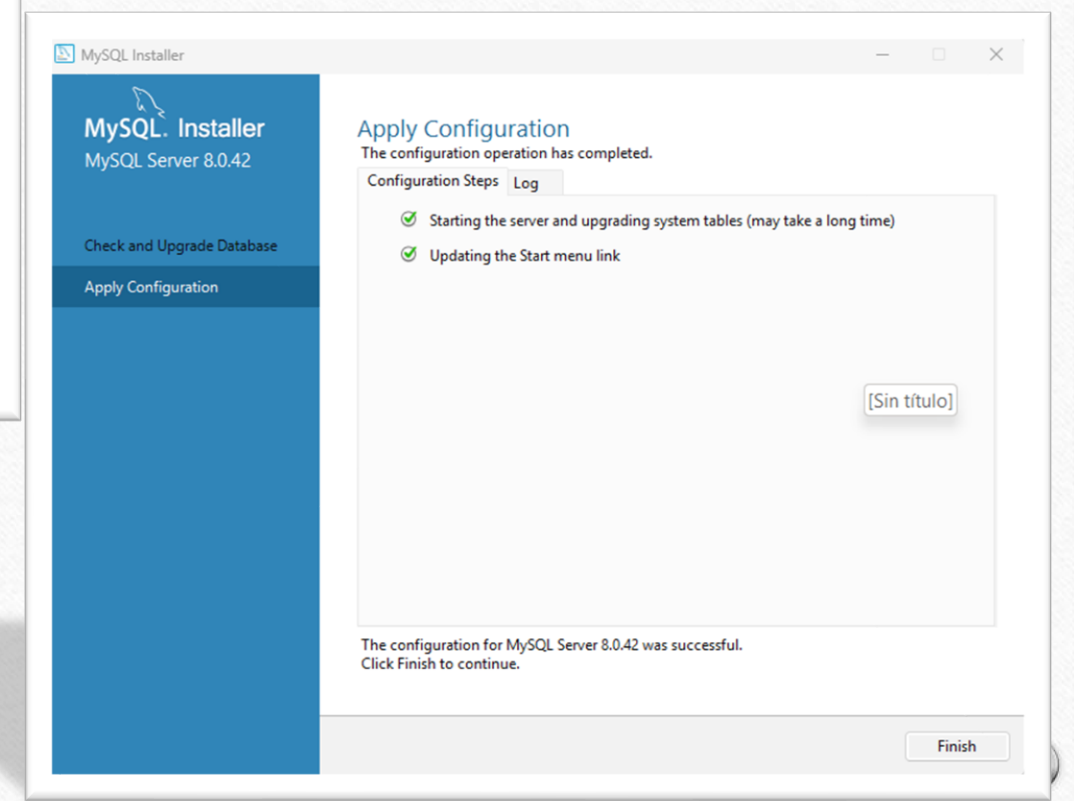
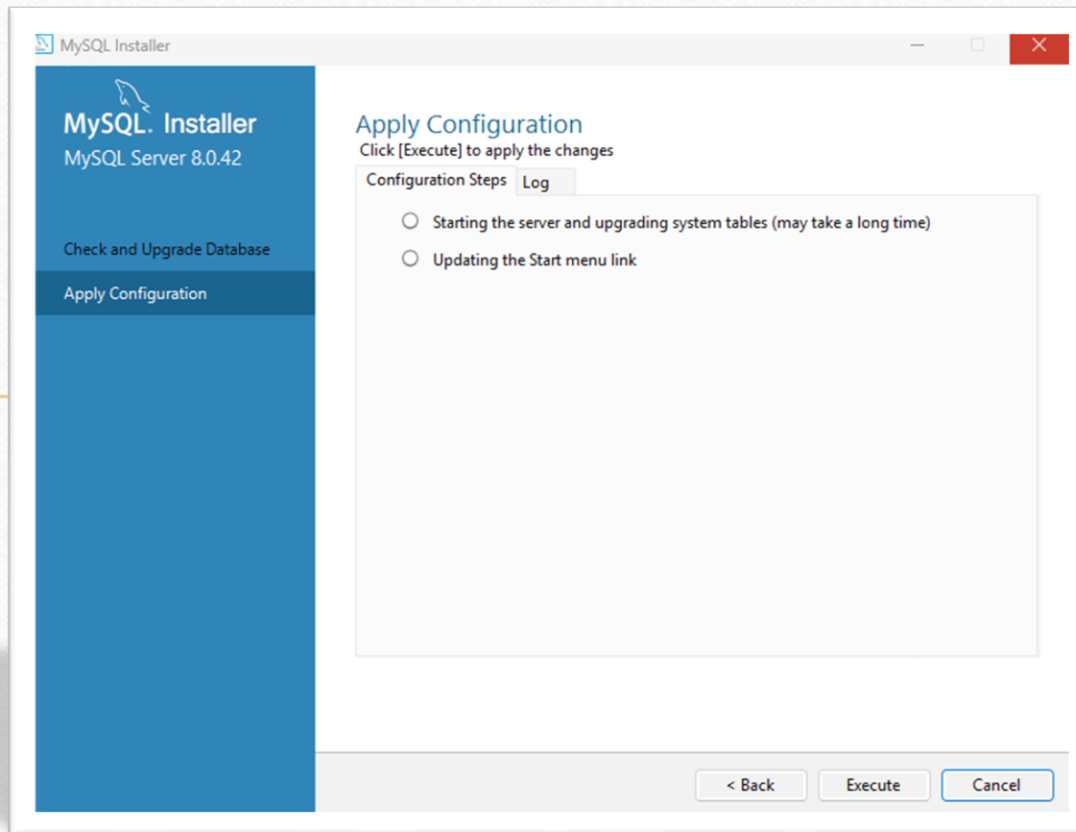
This upgrade process is performed by MySQL Server, without relying on the mysql\_upgrade client. The server will be started, then the data dictionary and system tables will be checked and upgraded automatically. After this process finishes, the server will be able to accept incoming connections.

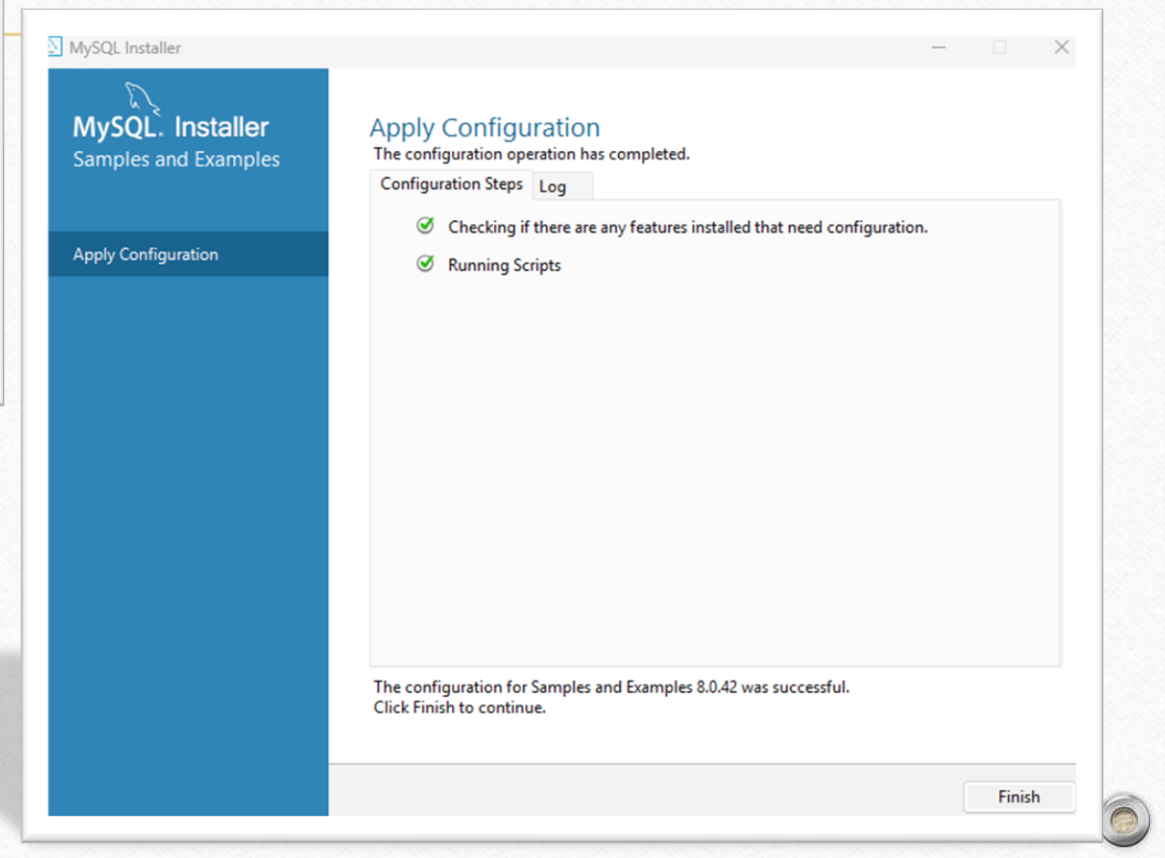
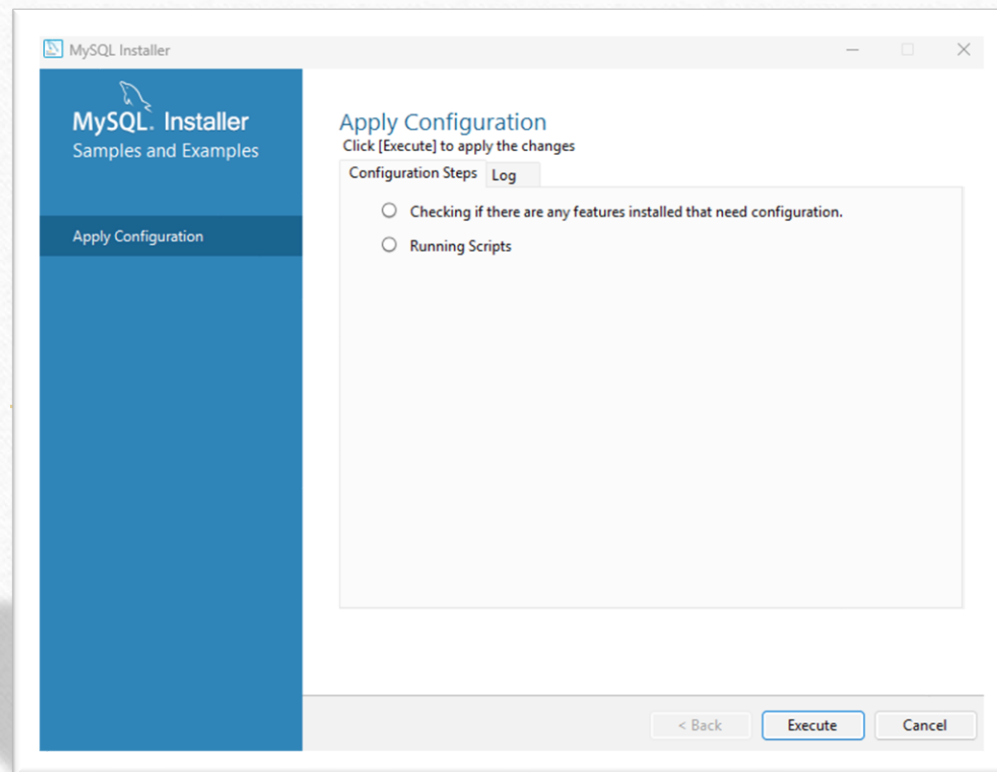
☐ Skip system tables upgrade check and process. (Not recommended)

Next >

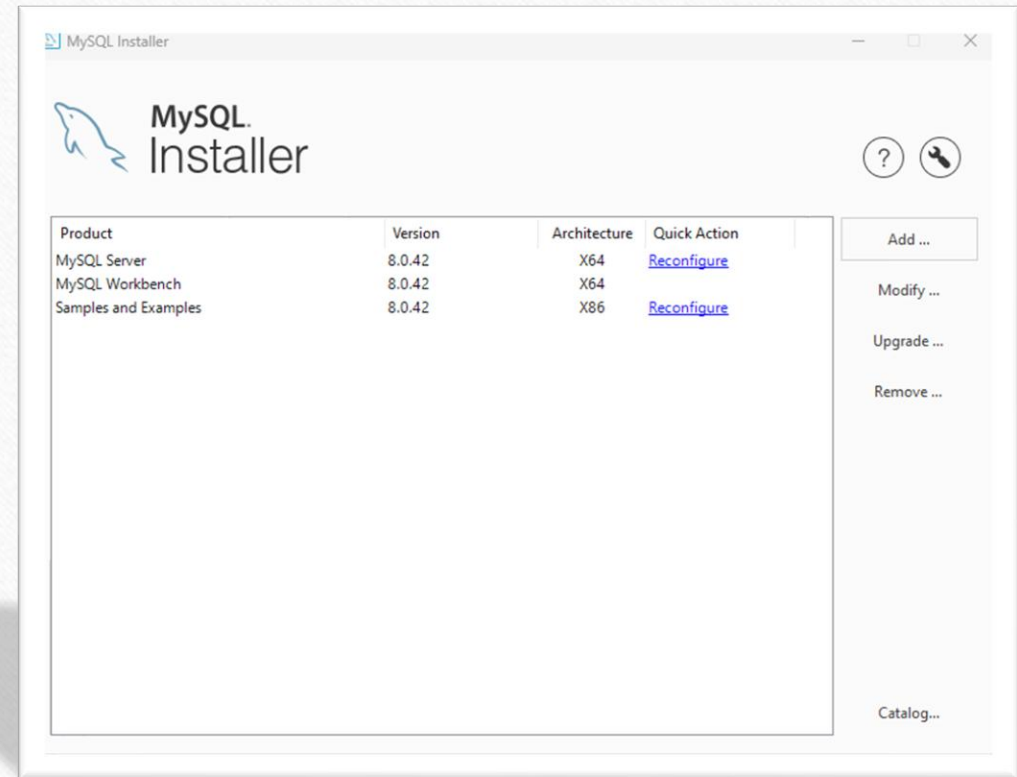
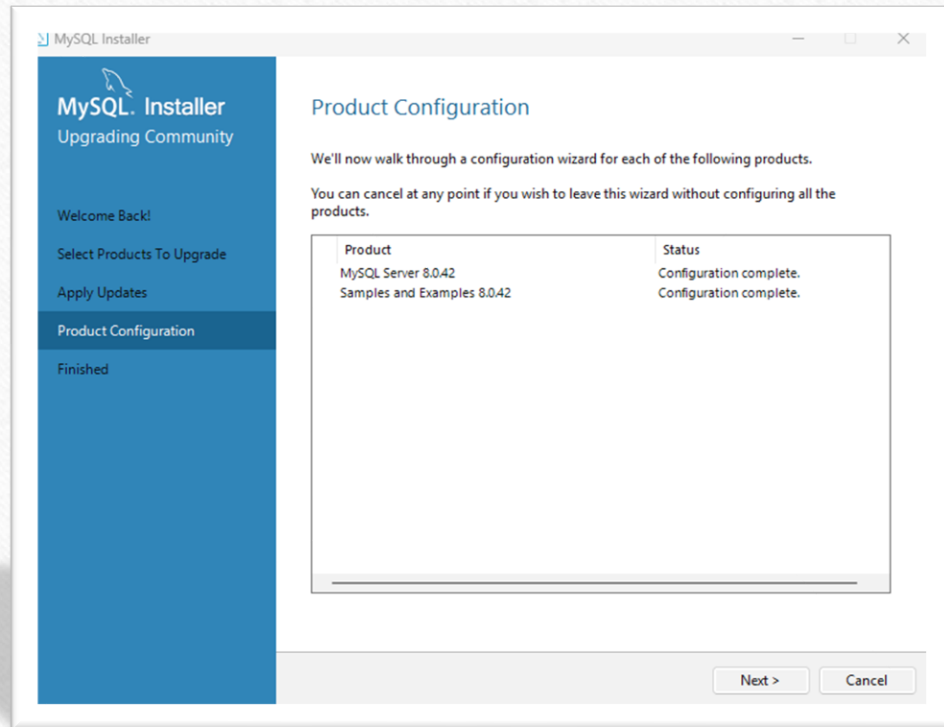
Cancel











# MySQL. Installer

MySQL Server 8.0.42

## Type and Networking

### Authentication Method

### Accounts and Roles

### Windows Service

### 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:

### 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

Next >

Cancel

# MySQL. Installer

MySQL Server 8.0.42

## Type and Networking

## Authentication Method

### Accounts and Roles

### Windows Service

### 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.

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Next >

Cancel



Después de seleccionar los productos, debemos iniciar la instalación.

Al finalizar la instalación comenzará la configuración del servidor. Las configuraciones de Red y Autenticación podemos dejarlas como están.

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Al finalizar la instalación comenzará la configuración del servidor. Las configuraciones de Red y Autenticación podemos dejarlas como están.

Luego, el instalador nos solicitará una contraseña para **root**, el super usuario administrador del servidor. Muchos SGBD utilizan este mismo nombre para su super usuario administrador. Es imperativo que no perdamos esta contraseña, si lo hacemos no podremos ingresar al servidor (con ese usuario).

# MySQL. Installer

MySQL Server 8.0.42

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.

Current Root Password:

••••••

Check

< Back

Next >

Cancel



# MySQL Installer

MySQL Server 8.0.33

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: **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	
			<div>Add User</div> <div>Edit User</div> <div>Delete</div>

Contraseña root

&lt; Back

Next &gt;

Cancel

A continuación, se establecerá la configuración del servicio sobre Windows y sus permisos. Podemos dejar los parámetros por defecto.

Por último, al finalizar la configuración, se pedirá la contraseña de `root` para confirmar la conexión al servidor.



# Usando Workbench

Workbench es una aplicación cliente de Interfaz Gráfica para MySQL. Es muy completa e intuitiva, y se puede manejar un servidor completamente con ella.

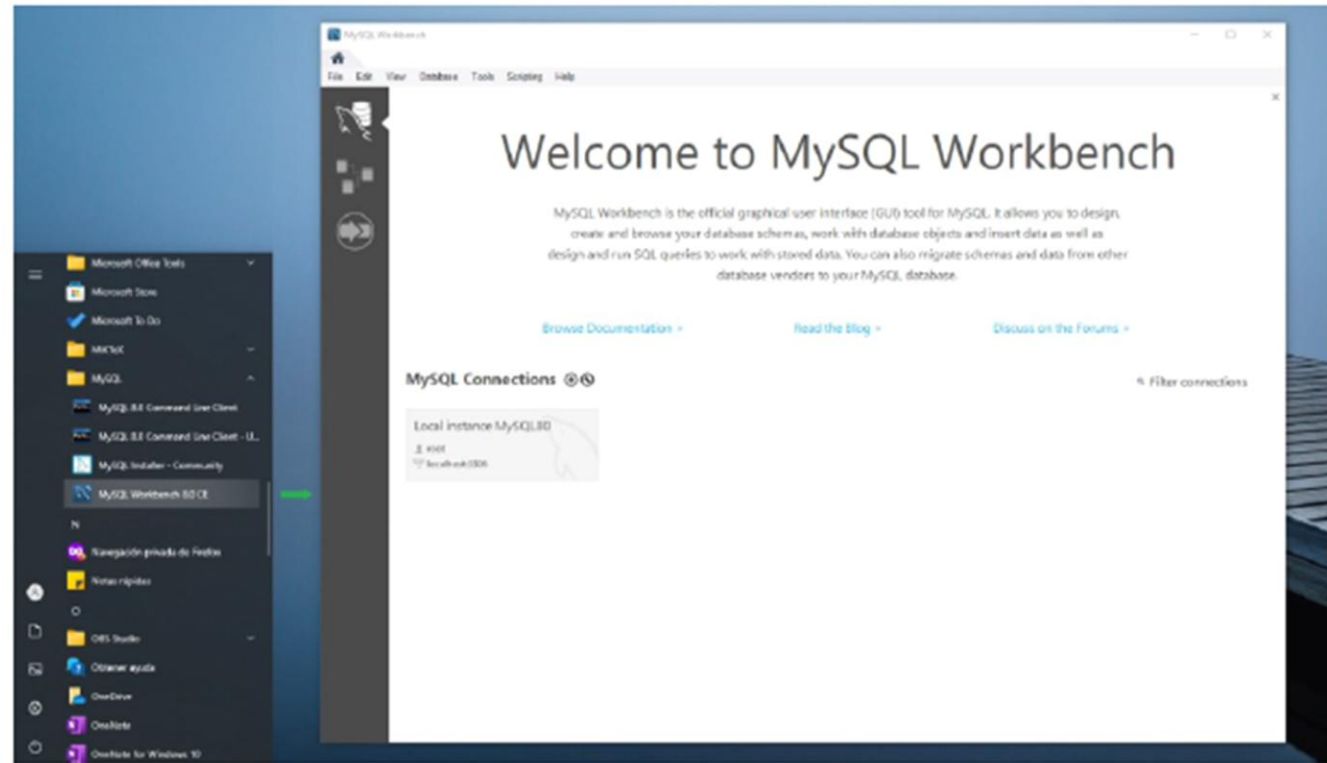


Figura A8

Al iniciar Workbench nos mostrará una ventana con una conexión ya creada para el usuario **root**.