



Installatie en configuratie MySQL omgeving.

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Praktisch

Voor de oefeningen en voorbeelden wordt gebruik gemaakt van **MySQL Community Server** en **MySQL workbench**.

- Installatie:
 - <https://dev.mysql.com/downloads/installer/>
 - <http://www.mysql.com/products/workbench/>
- Documentatie:
 - <http://dev.mysql.com/doc/workbench/en/>

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Download MySQL Community

MySQL :: Download MySQL Installer

MySQL Community Downloads

MySQL Installer

General Availability (GA) Releases Archives

MySQL Installer 8.0.22

Select Operating System:

Looking for previous GA versions?

Windows (x86, 32-bit), MSI Installer (mysql-installer-web-community-8.0.22.0.msi)	8.0.22	2.5M	Download
Windows (x86, 32-bit), MSI Installer (mysql-installer-community-8.0.22.0.msi)	8.0.22	405.2M	Download

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

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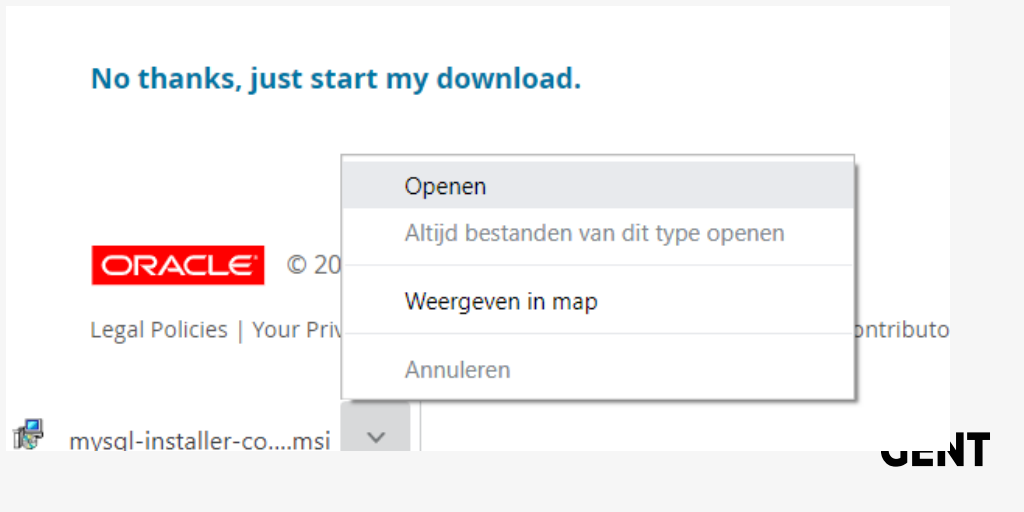
MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can sign up for a free account by clicking the Sign Up link and following the instructions.

[No thanks, just start my download.](#)

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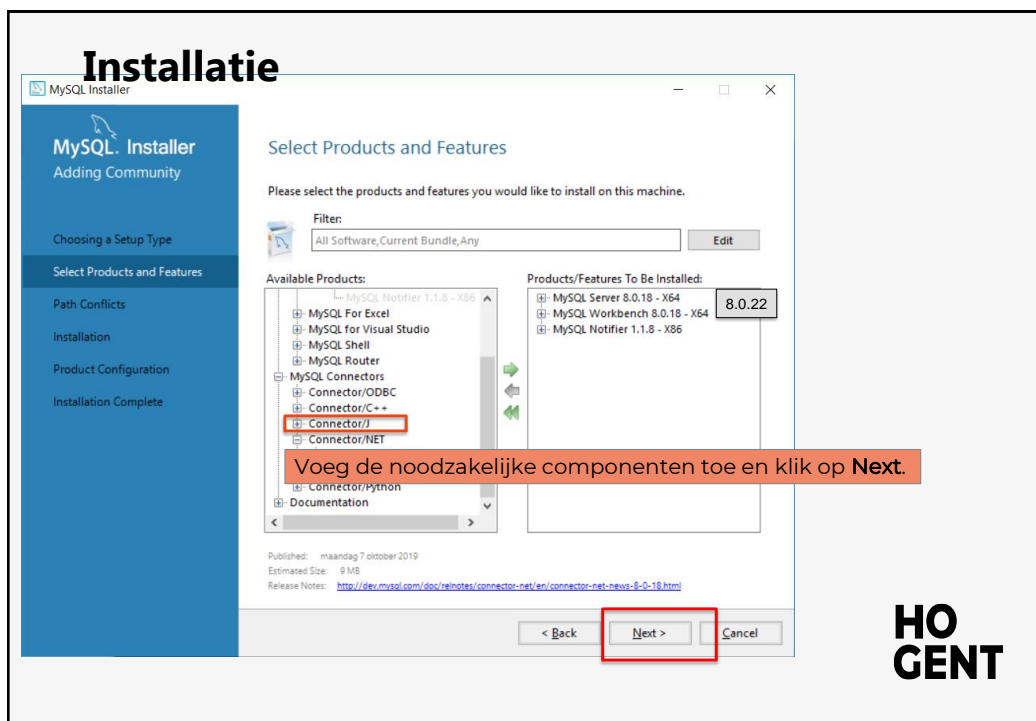
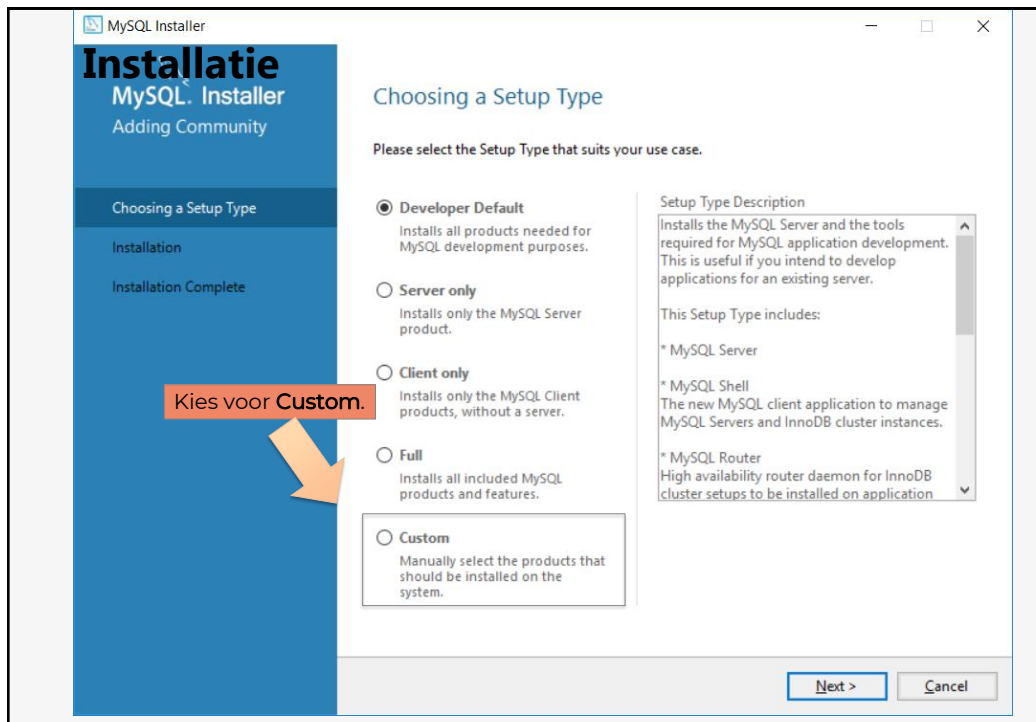
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Klik openen



**Geef administrator login en
paswoord, indien je niet bent
aangelogd met een
administrator account**

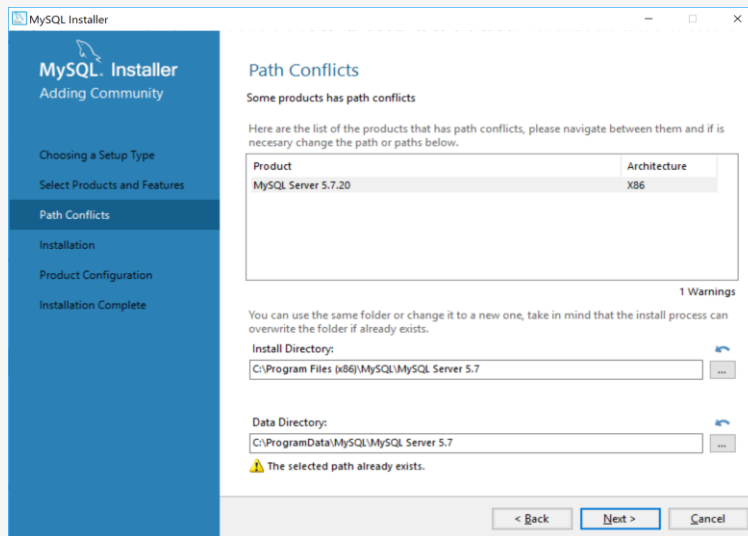
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Installatie

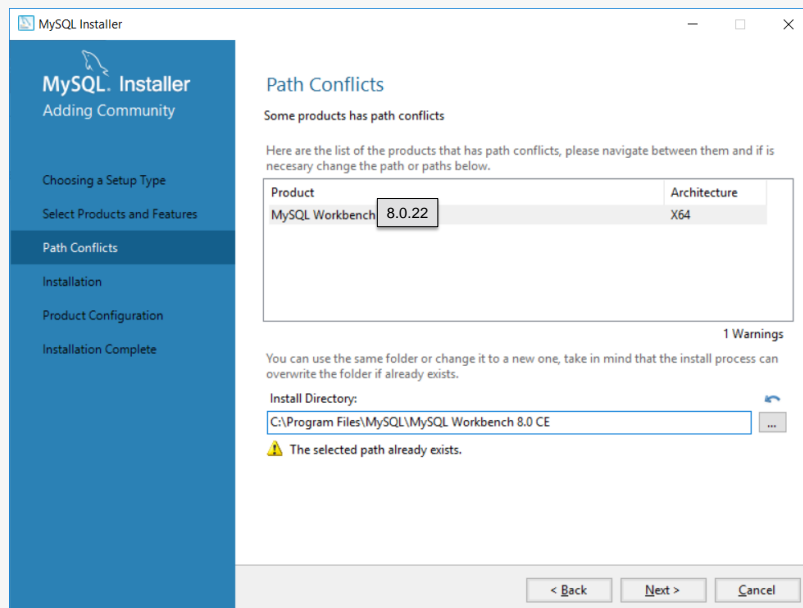
Mogelijke warning indien je reeds een MySQL versie hebt



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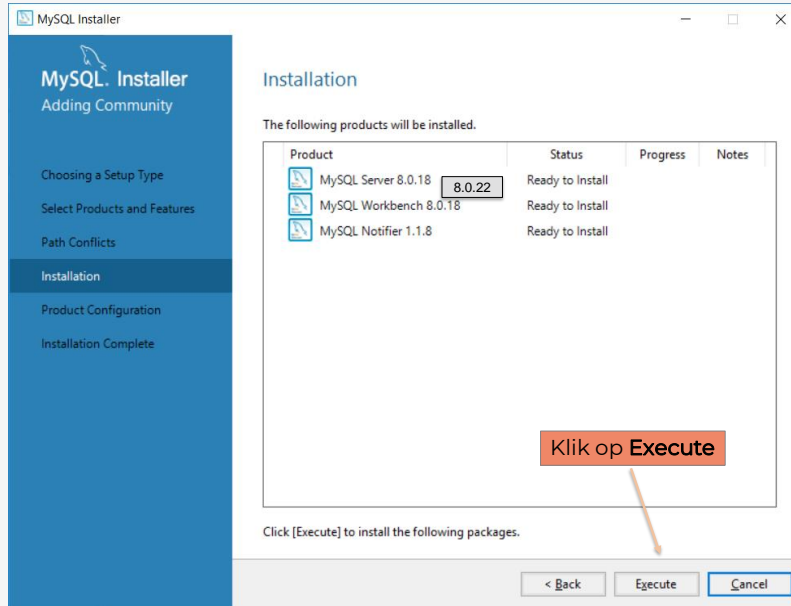
Installatie

Mogelijke warning indien je reeds een MySQL versie hebt



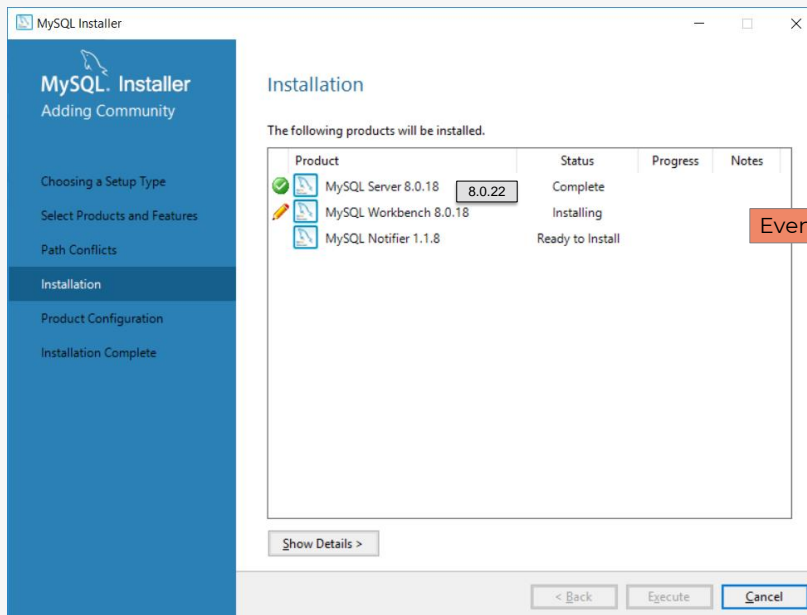
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Installatie



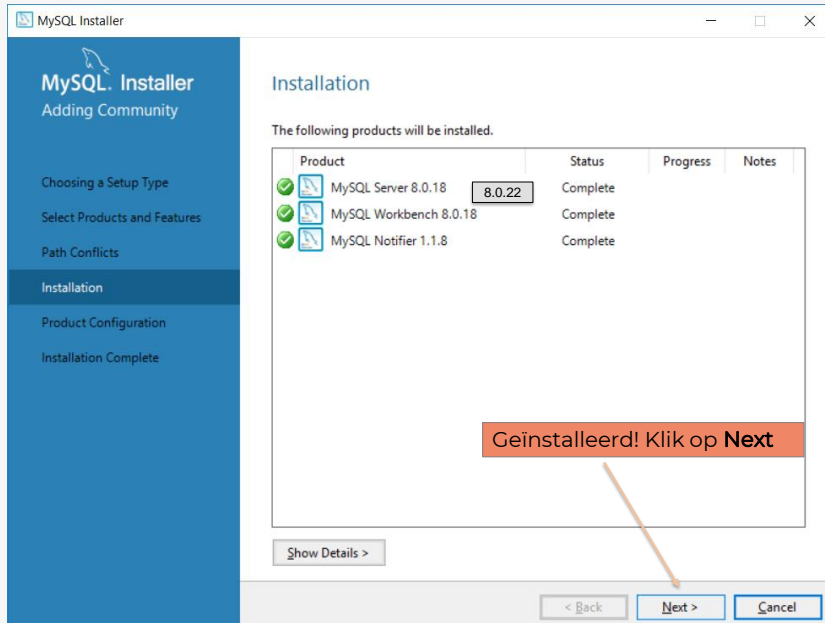
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Installatie



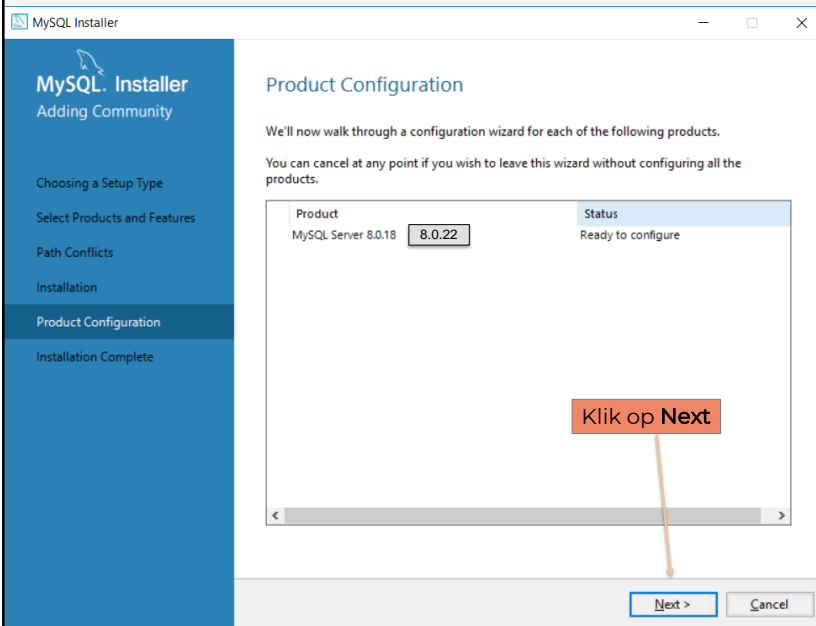
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Installatie



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Configuratie



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Configuratie

MySQL Installer
MySQL Server 8.0.18

High Availability

Type and Networking

Authentication Method

Accounts and Roles

Windows Service

Logging Options

Advanced Options

Apply Configuration

High Availability

☒ Standalone MySQL Server / Classic MySQL Replication
Choose this option to run the MySQL instance as a standalone database server with the opportunity to configure classic replication later. With this option, you can provide your own high-availability solution, if required.

☐ InnoDB Cluster
The InnoDB cluster technology provides an out-of-the-box high availability (HA) solution for MySQL using Group Replication.

Note: [InnoDB cluster](#) requires a minimum of three MySQL server instances to provide a fully automated HA solution. Members of a cluster should be located such that network communication latency between servers is low.

Klik op Next

Next > Cancel

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Configuratie

MySQL Installer
MySQL Server 8.0.18

High Availability

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: 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.

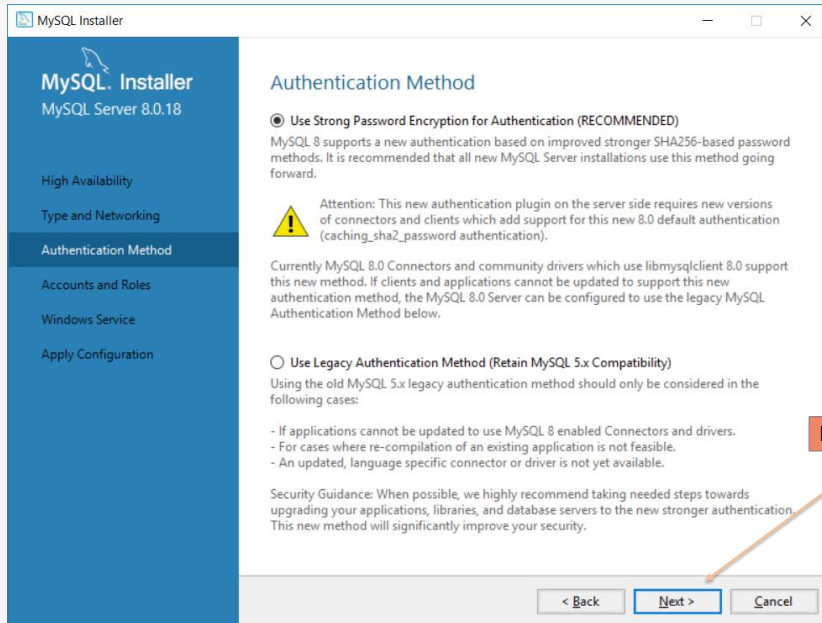
☐ Show Advanced and Logging Options

Klik op Next

< Back Next > Cancel

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Configuratie



The screenshot shows the 'Authentication Method' step of the MySQL Installer. The left sidebar lists the installation steps: High Availability, Type and Networking, Authentication Method (selected), Accounts and Roles, Windows Service, and Apply Configuration. The main area has two radio buttons: 'Use Strong Password Encryption for Authentication (RECOMMENDED)' and 'Use Legacy Authentication Method (Retain MySQL 5.x Compatibility)'. The recommended option is selected. Below it, there is a warning icon and text about the new authentication method requiring newer connectors and clients. Further down, it mentions that currently MySQL 8.0 Connectors and community drivers use libmysqlclient 8.0, which supports the new method. The legacy method is only recommended for specific cases: applications that cannot be updated, re-compilation is not feasible, or an updated connector/driver is not available. A security guidance note at the bottom recommends upgrading applications, libraries, and database servers to the new stronger authentication method. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'. An orange arrow points from a text box to the 'Next >' button.

MySQL Installer
MySQL Server 8.0.18

High Availability
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.

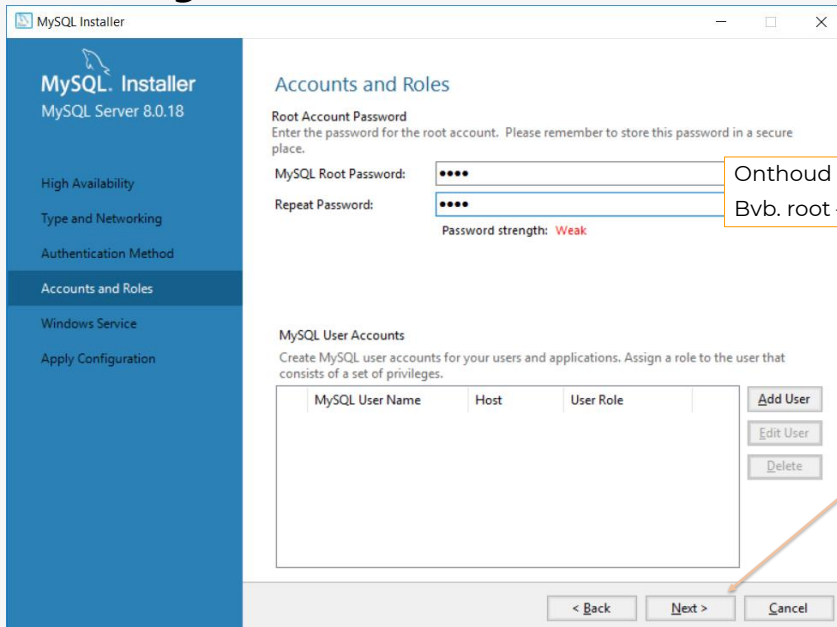
Security Guidance: When possible, we highly recommend taking needed steps towards upgrading your applications, libraries, and database servers to the new stronger authentication. This new method will significantly improve your security.

< Back **Next >** Cancel

Klik op Next

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Configuratie



The screenshot shows the 'Accounts and Roles' step of the MySQL Installer. 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 has two sections. The first is 'Root Account Password', which asks the user to enter a password for the root account and repeat it. The password strength is shown as 'Weak'. The second section is 'MySQL User Accounts', which has a table with columns 'MySQL User Name', 'Host', and 'User Role'. To the right of the table are buttons for 'Add User', 'Edit User', and 'Delete'. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'. An orange arrow points from a text box to the 'Next >' button.

MySQL Installer
MySQL Server 8.0.18

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: **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
-----------------	------	-----------

Add User
Edit User
Delete

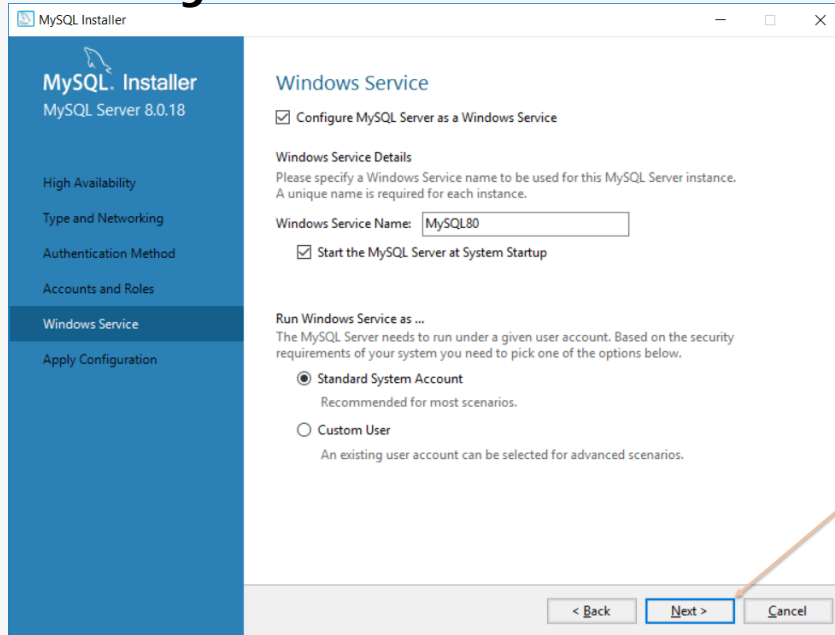
< Back **Next >** Cancel

Onthoud de gegevens !!
Bvb. root – root - root

Klik op Next

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Configuratie



The screenshot shows the 'MySQL Installer' window for 'MySQL Server 8.0.18'. The left sidebar contains a list of configuration steps: 'High Availability', 'Type and Networking', 'Authentication Method', 'Accounts and Roles', 'Windows Service' (which is highlighted), and 'Apply Configuration'. The main area is titled 'Windows Service' and contains the following options:

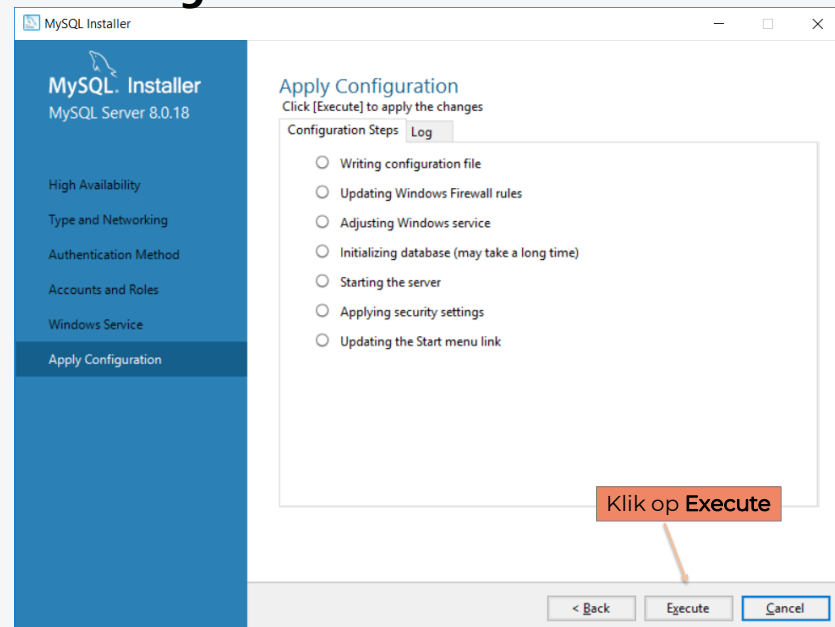
- ☒ Configure MySQL Server as a Windows Service
- Windows Service Details**
Please specify a Windows Service name to be used for this MySQL Server instance. A unique name is required for each instance.
Windows Service Name:
- ☒ Start the MySQL Server at System Startup
- Run Windows Service as ...**
The 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.

At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'. An orange arrow points from a red box labeled 'Klik op Next' to the 'Next >' button.

Klik op Next

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Configuratie



The screenshot shows the 'MySQL Installer' window for 'MySQL Server 8.0.18'. The left sidebar contains a list of configuration steps: 'High Availability', 'Type and Networking', 'Authentication Method', 'Accounts and Roles', 'Windows Service', and 'Apply Configuration' (which is highlighted). The main area is titled 'Apply Configuration' and contains the following options:

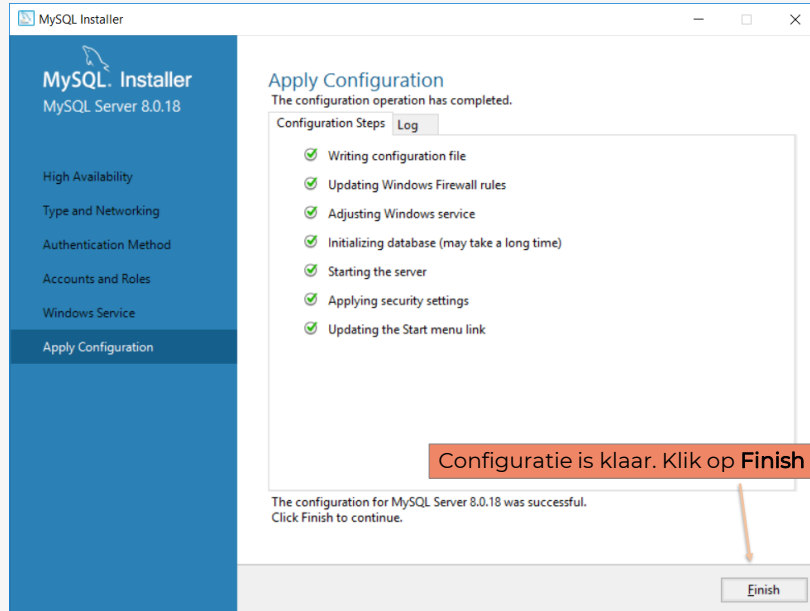
- Click [Execute] to apply the changes
- Configuration Steps** | Log
 - ☐ Writing configuration file
 - ☐ Updating Windows Firewall rules
 - ☐ Adjusting Windows service
 - ☐ Initializing database (may take a long time)
 - ☐ Starting the server
 - ☐ Applying security settings
 - ☐ Updating the Start menu link

At the bottom right, there are three buttons: '< Back', 'Execute', and 'Cancel'. An orange arrow points from a red box labeled 'Klik op Execute' to the 'Execute' button.

Klik op Execute

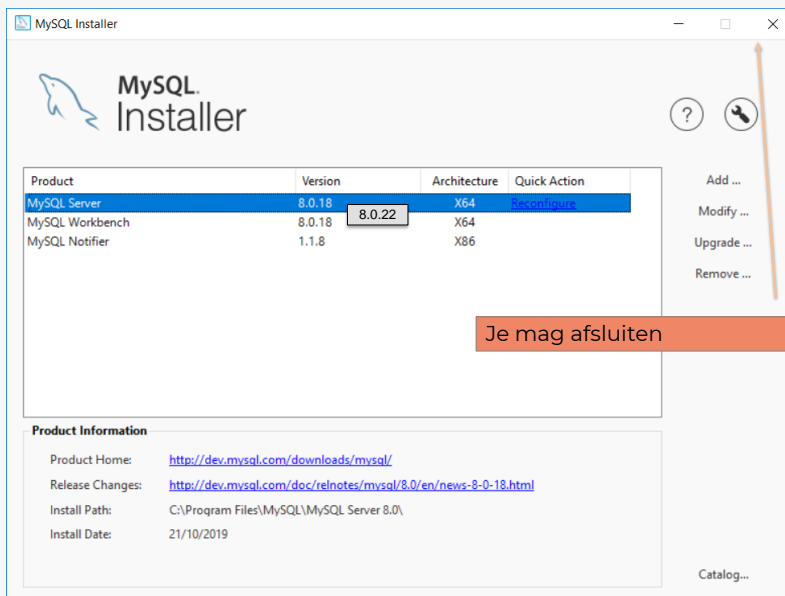
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Configuratie



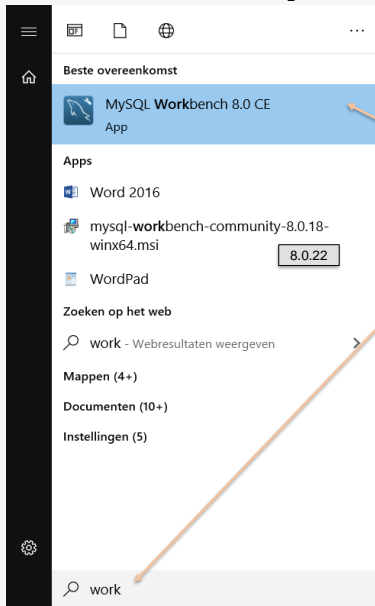
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Configuratie



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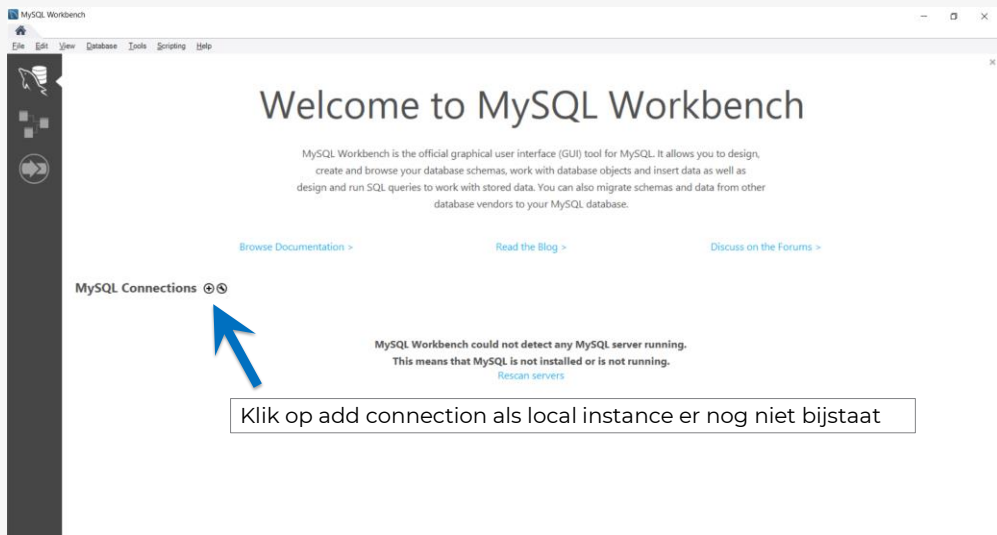
Workbench opstarten



Typ workbench en klik op
verschenen applicatie in
windows start menu

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Workbench opstarten



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Setup New Connection

Connection Name: Type a name for the connection

Connection Method: Method to use to connect to the RDBMS

Parameters ☒ SSL ☐ Advanced

Hostname: Port: Name or IP address of the server host - and TCP/IP port.

Username: Name of the user to connect with.

Password: The user's password. Will be requested later if it's not set.



Default Schema: The schema to use as default schema. Leave blank to select it later.

Typ local en klik OK


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Workbench opstarten

[Browse Documentation >](#)

MySQL Connections  

local
root
127.0.0.1:3306

 **Connect to MySQL Server**

Please enter password for the following service:

Service: MySQL@127.0.0.1:3306

User: root

Password:

☐ Save password in vault

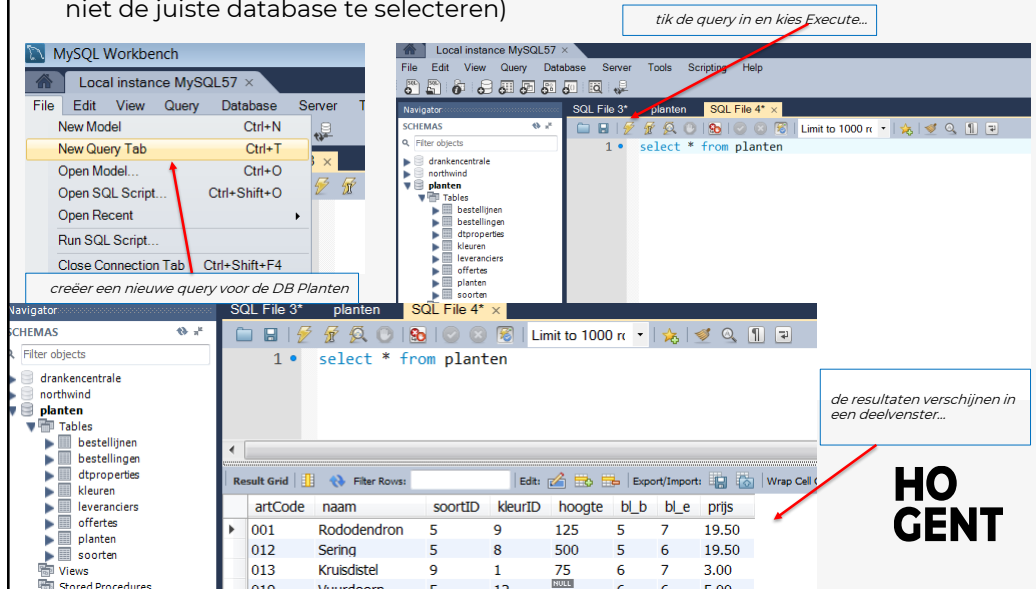
Klik op Local en log in met root-root.

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Queries opstellen

Bevragen gegevens in MySQL Server kan via MySQL Workbench (vergeet niet de juiste database te selecteren)

tik de query in en kies Execute...



creëer een nieuwe query voor de DB Planten

de resultaten verschijnen in een deelvvenster...

artCode	naam	soortID	kleurID	hoogte	bl_b	bl_e	prijs
001	Rhododendron	5	9	125	5	7	19.50
012	Sering	5	8	500	5	6	19.50
013	Kruisdistel	9	1	75	6	7	3.00
010	Meidoorn	5	12	1000	5	6	5.00

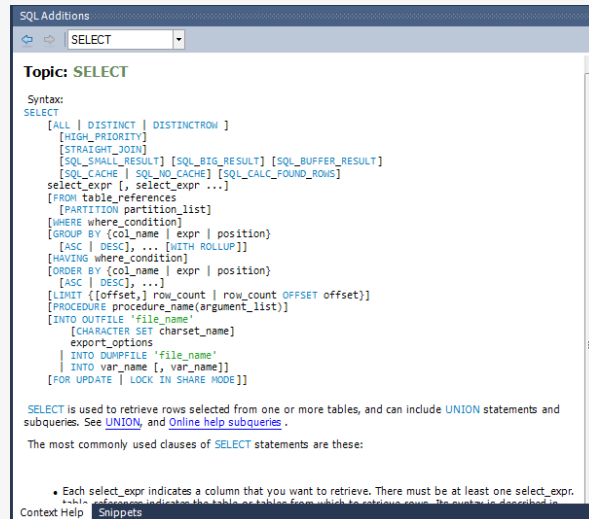
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Troubleshooting

- Waard om te proberen:
 - Full option install kan soms het probleem oplossen
- Indien Workbench niet werd geïnstalleerd:
 - Check prerequisites
 - Probeer Workbench apart te installeren

Help !

Via het help panel heb je toegang tot een heel complete help.



The screenshot shows a help window titled "SQLAdditions" with a search bar containing "SELECT". The main content area is titled "Topic: SELECT" and displays the SQL syntax for the SELECT statement. The syntax is as follows:

```
SELECT
[ALL | DISTINCT | DISTINCTROW ]
[HIGH_PRIORITY]
[STRAIGHT_JOIN]
[SQL_SMALL_RESULT] [SQL_BIG_RESULT] [SQL_BUFFER_RESULT]
[SQL_CACHE | SQL_NO_CACHE] [SQL_CALC_FOUND_ROWS]
select_expr [, select_expr ...]
FROM table_references
[PARTITION partition_list]
[WHERE where_condition]
[GROUP BY {col_name | expr | position}
[ASC | DESC], ... [WITH ROLLUP]]
[HAVING where_condition]
[ORDER BY {col_name | expr | position}
[ASC | DESC], ...]
[LIMIT {[offset,] row_count | row_count OFFSET offset}]
[PROCEDURE procedure_name(argument_list)]
[INTO OUTFILE 'file_name'
[CHARACTER SET charset_name]
export_options
| INTO DUMPFILE 'file_name'
| INTO var_name [, var_name]]
[FOR UPDATE | LOCK IN SHARE MODE]]
```

Below the syntax, it states: "SELECT is used to retrieve rows selected from one or more tables, and can include UNION statements and subqueries. See [UNION](#), and [Online help subqueries](#) ."

The most commonly used clauses of SELECT statements are these:

- Each select_expr indicates a column that you want to retrieve. There must be at least one select_expr.

At the bottom, there is a "Context Help" section with a "Snippets" link.

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