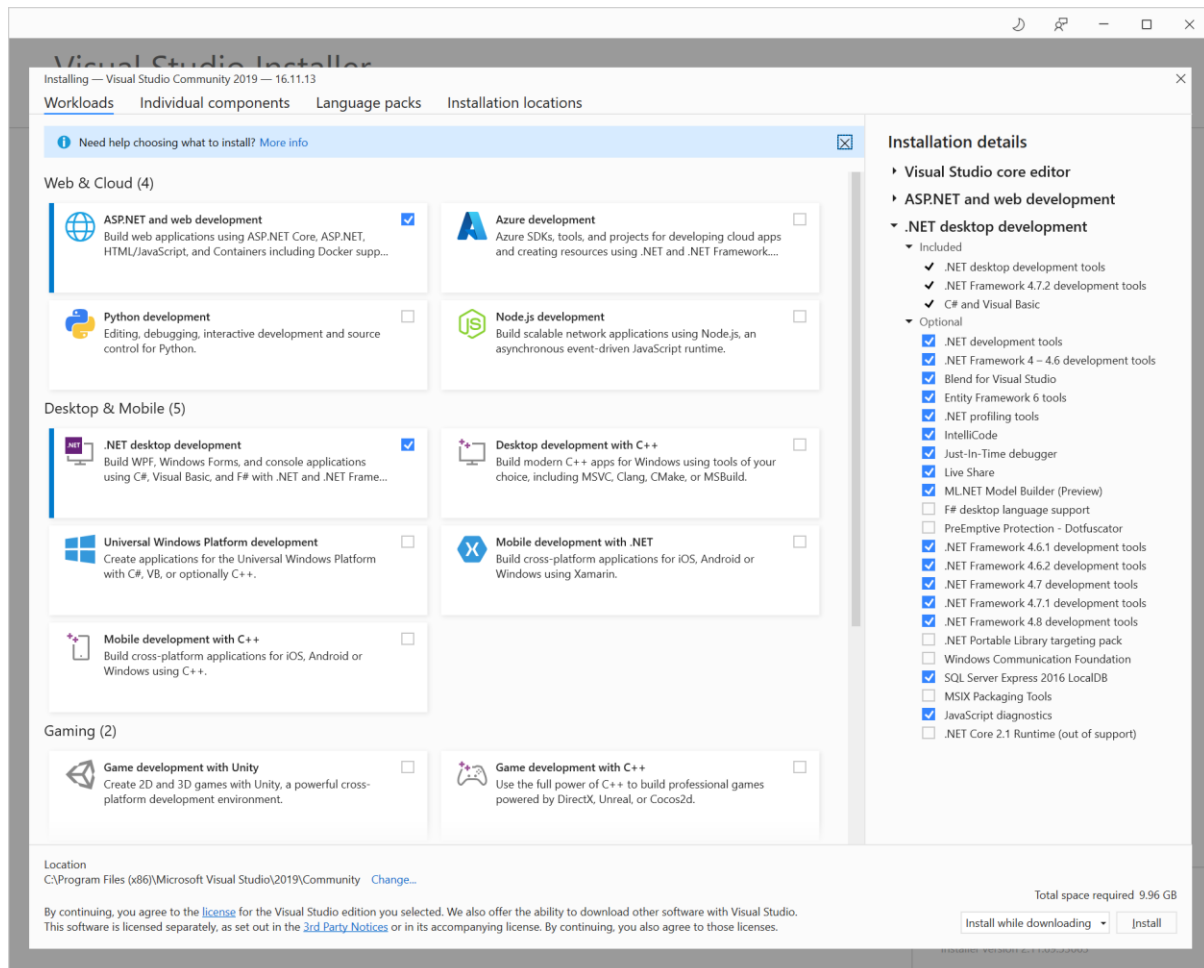


## Setup of Development Environment on Windows 10

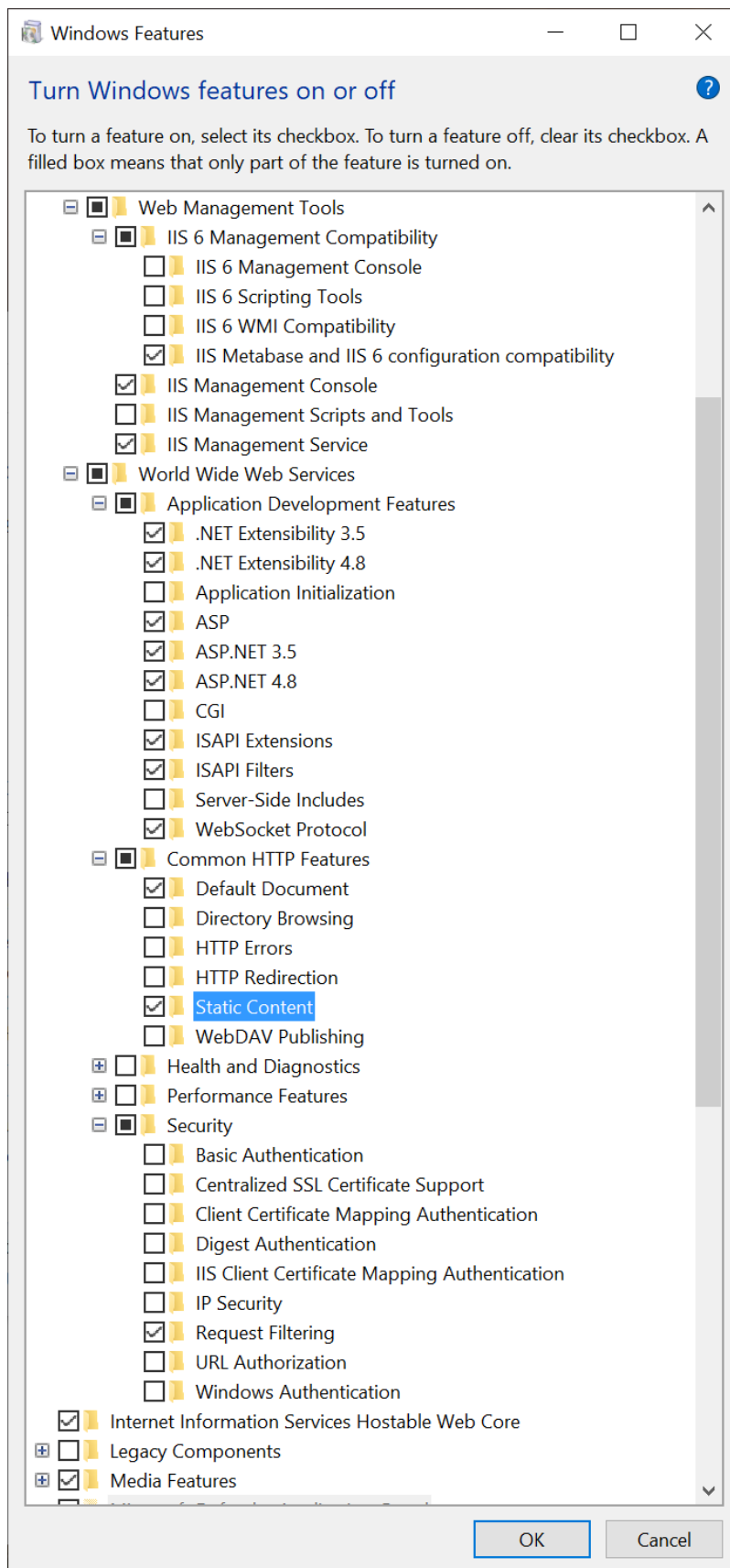
1. <https://visualstudio.microsoft.com/vs/older-downloads/>
2. Choose 2019 year
3. Select the following:



4. Run Visual Studio 2019 and pin to task bar.
5. Right-click Visual Studio 2019 in task bar and open properties to set to "Run as administrator"
- 6.

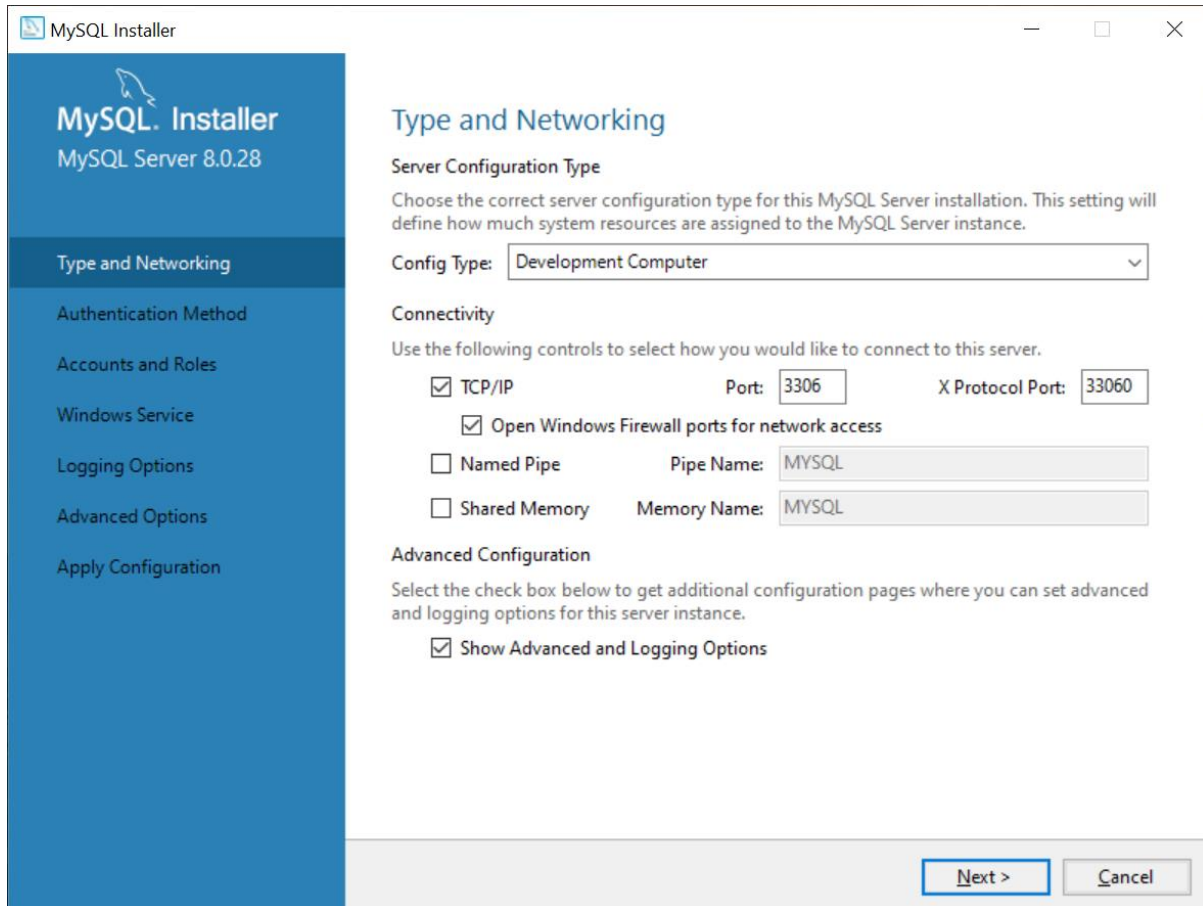
## Setup of Windows 10 or Windows Server

1. Programs and Features – Turn Windows features on or off
2. Enable the following:



## Setup MySQL on Windows 10

1. <https://dev.mysql.com/downloads/>
2. Click download Windows (x86, 32-bit), MSI Installer (not the web)
3. Install MySQL using Developer Default
4. <https://www.python.org/downloads/>
5. Download either 3.6,3.7,3.8,3.9 or 3.10



The screenshot shows the 'MySQL Installer' window for 'MySQL Server 8.0.28'. The left sidebar contains a list of configuration steps: 'Type and Networking' (selected), 'Authentication Method', 'Accounts and Roles', 'Windows Service', 'Logging Options', 'Advanced Options', and 'Apply Configuration'. The main area is titled 'Type and Networking' and contains the following sections:

- Server Configuration Type**: A text box labeled 'Config Type:' with a dropdown menu set to 'Development Computer'.
- Connectivity**: A text box with the instruction 'Use the following controls to select how you would like to connect to this server.' Below it are three options:
  - ☒ 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 text box 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.' Below it is a checked checkbox labeled 'Show Advanced and Logging Options'.

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

MySQL Installer

MySQL Server 8.0.28

Type and Networking

Authentication Method

Accounts and Roles

Windows Service

Logging Options


Advanced Options

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

MySQL Installer

MySQL Server 8.0.28

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## 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	
 devuser	%	DB Admin	<div><div>Add User</div><div>Edit User</div><div>Delete</div></div>

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Next >

Cancel

# MySQL<sup>®</sup> Installer

MySQL Server 8.0.28

Type and Networking

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## 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:

☒ 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.

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Next >

Cancel

MySQL Installer

MySQL Server 8.0.28

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### Logging Options

Please select the logs you want to activate for this server in addition to the error log. On production computers, it can be beneficial to separate the log files from the data. Specify a file name to save the logs in the data directory (default) or browse to a different location. You must provide an absolute path when specifying the path together with the file name.

Error Log:

☐ General Log

The general query log is a general record of what the MySQL Server is doing. It should only be used to track down issues.

File Path:

☒ Slow Query Log

The slow query log consists of SQL statements that took more than the given value of seconds to execute. It is recommended to turn this log on.

File Path:  Seconds:

☐ Bin Log

The binary log contains all database events and is used for replication and data recovery operations. Enabling the log has a performance impact on the server. Enter the log name without a file extension.

File Path:

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Next >

Cancel

# MySQL. Installer

MySQL Server 8.0.28

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## Advanced Options

Server ID:

A unique numeric identifier used in a replication topology.  
If binary logging is enabled, a Server ID must be specified.

### Table Names Case:

- ☒ **Lower Case (default):**  
This option sets the configuration variable `lower_case_table_names = 1`.
- ☐ **Preserve Given Case:**  
This option sets the configuration variable `lower_case_table_names = 2`.

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Next >

Cancel

# MySQL. Installer

MySQL Router 8.0.28

## 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 bootstrapping 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:

Management User:

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:

Read Only:

#### X Protocol connections to InnoDB Cluster:

Read/Write:

Read Only:

[Finish](#)

[Cancel](#)