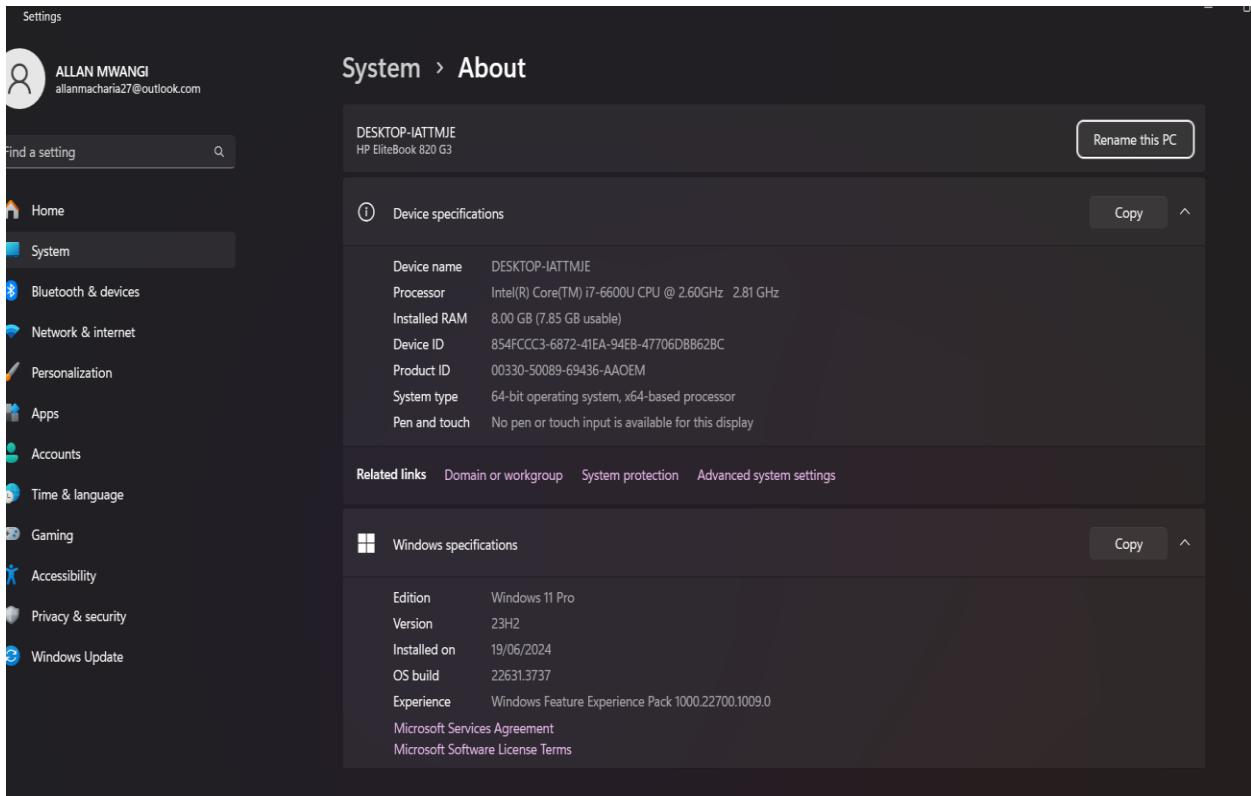


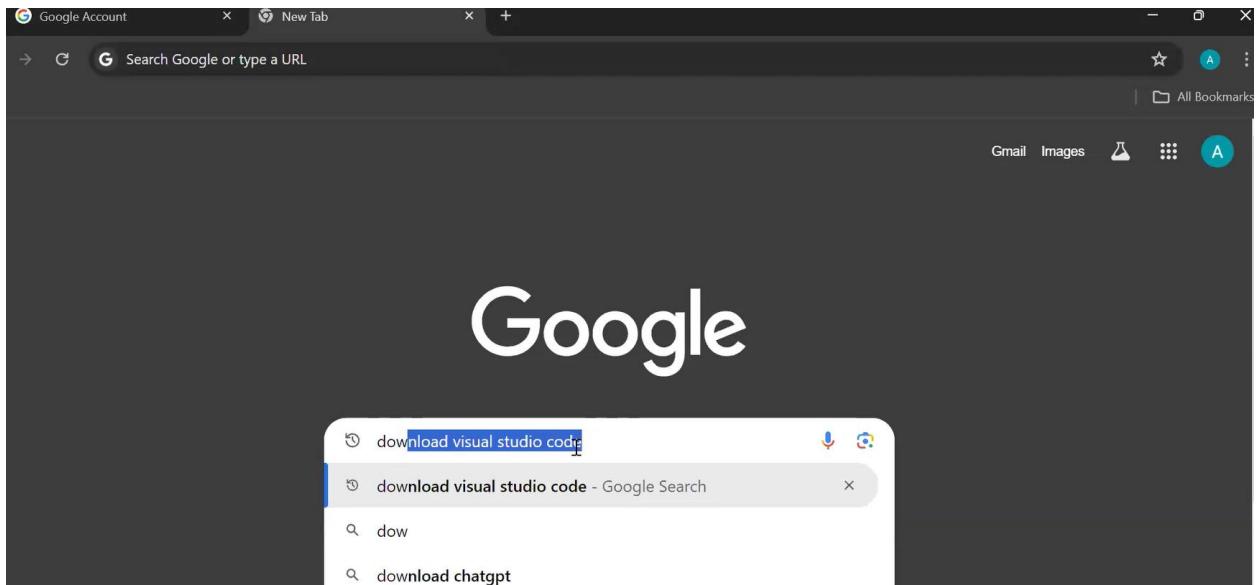
1. Select Your Operating System (OS): Choose an operating system that best suits your preferences and project requirements. Download and Install Windows 11. <https://www.microsoft.com/software-download/windows11>

installed microsoft windows 11 pro



2. Install a Text Editor or Integrated Development Environment (IDE): installed vscode
Select and install a text editor or IDE suitable for your programming languages and workflow. Download and Install Visual Studio Code. <https://code.visualstudio.com/Download>

```
HP@DESKTOP-IATTMJE MINGW64 ~/github-classroom/Powerlearnproject/se-  
assignment-1-setting-up-your-developer-environment-AllanMachariaM (main) $  
code --version 1.90.1 611f9bfce64f25108829dd295f54a6894e87339d x6
```



Google search results for "download visual studio code".

Search bar: download visual studio code

Navigation: All, Videos, Images, Shopping, News, More

Result 1:

 Visual Studio Code
<https://code.visualstudio.com> › download

[Download Visual Studio Code - Mac, Linux, Windows](#)

Visual Studio Code is free and available on your favorite platform - Linux, macOS, and Windows

[Download Visual Studio Code](#) to experience a redefined code ...

Result 2:

Docs

GCC on Windows - Getting Started with Java - IntelliSense - Setup

Result 3:

VS Code FAQ

Beyond crash reporting and telemetry, VS Code uses online ...

Result 4:

Microsoft software license terms

Extensions. The software gives you the option to download ...

[More results from visualstudio.com »](#)

Visual Studio Code website.

Header: Visual Studio Code Docs Updates Blog API Extensions FAQ Learn Search Docs Download

Downloads section:

Windows [Windows 10, 11](#)

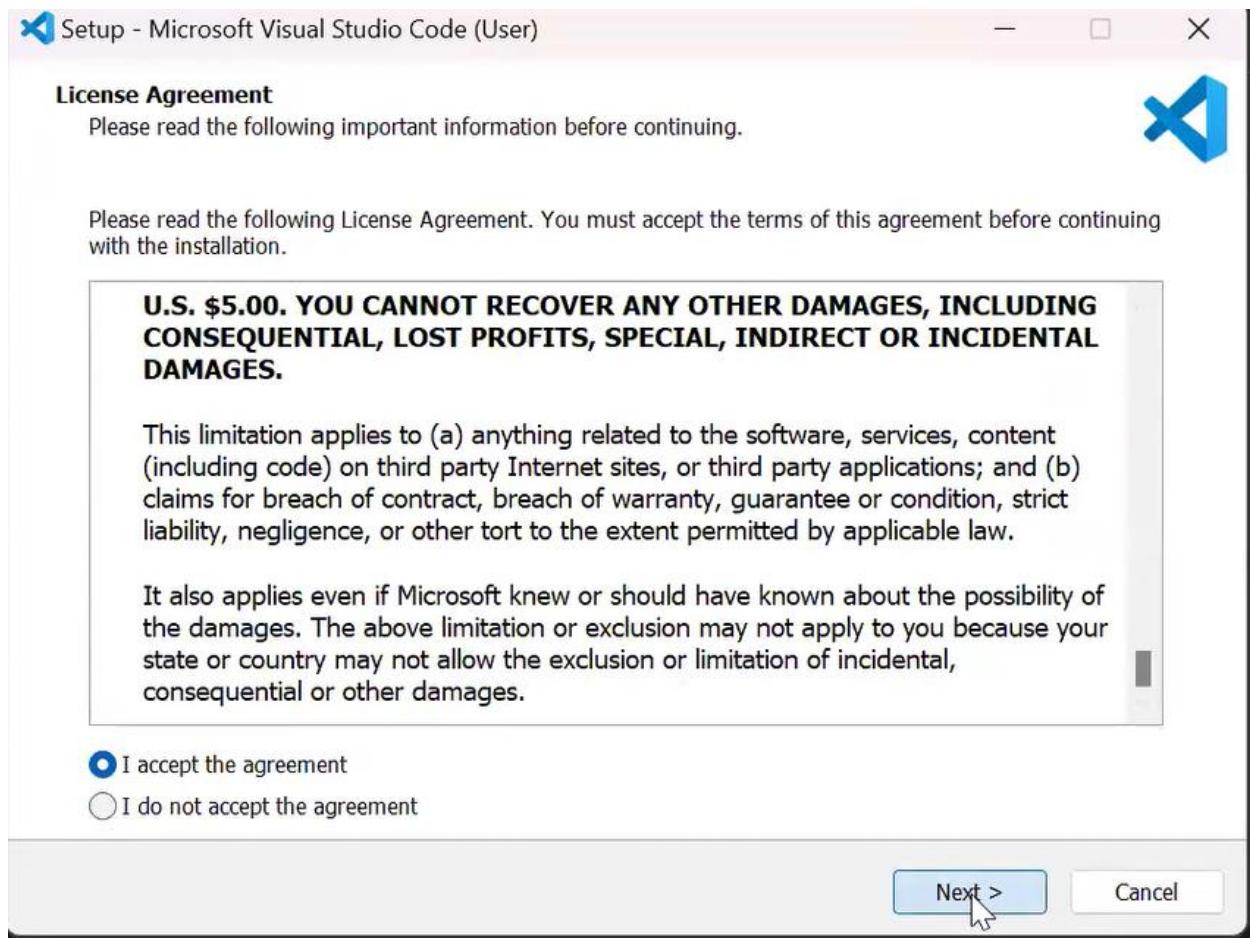
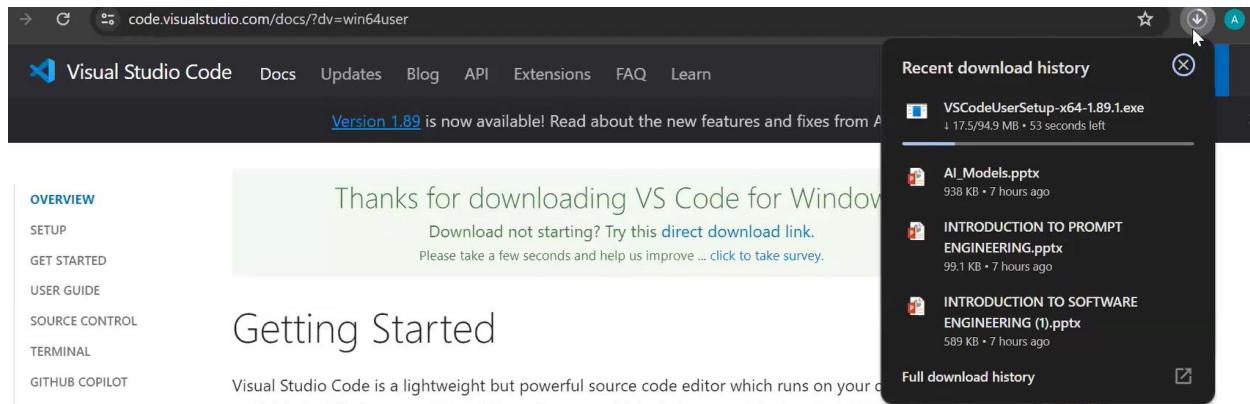
User Installer [x64](#) [Arm64](#)
System Installer [x64](#) [Arm64](#)
.zip [x64](#) [Arm64](#)
CLI [x64](#) [Arm64](#)

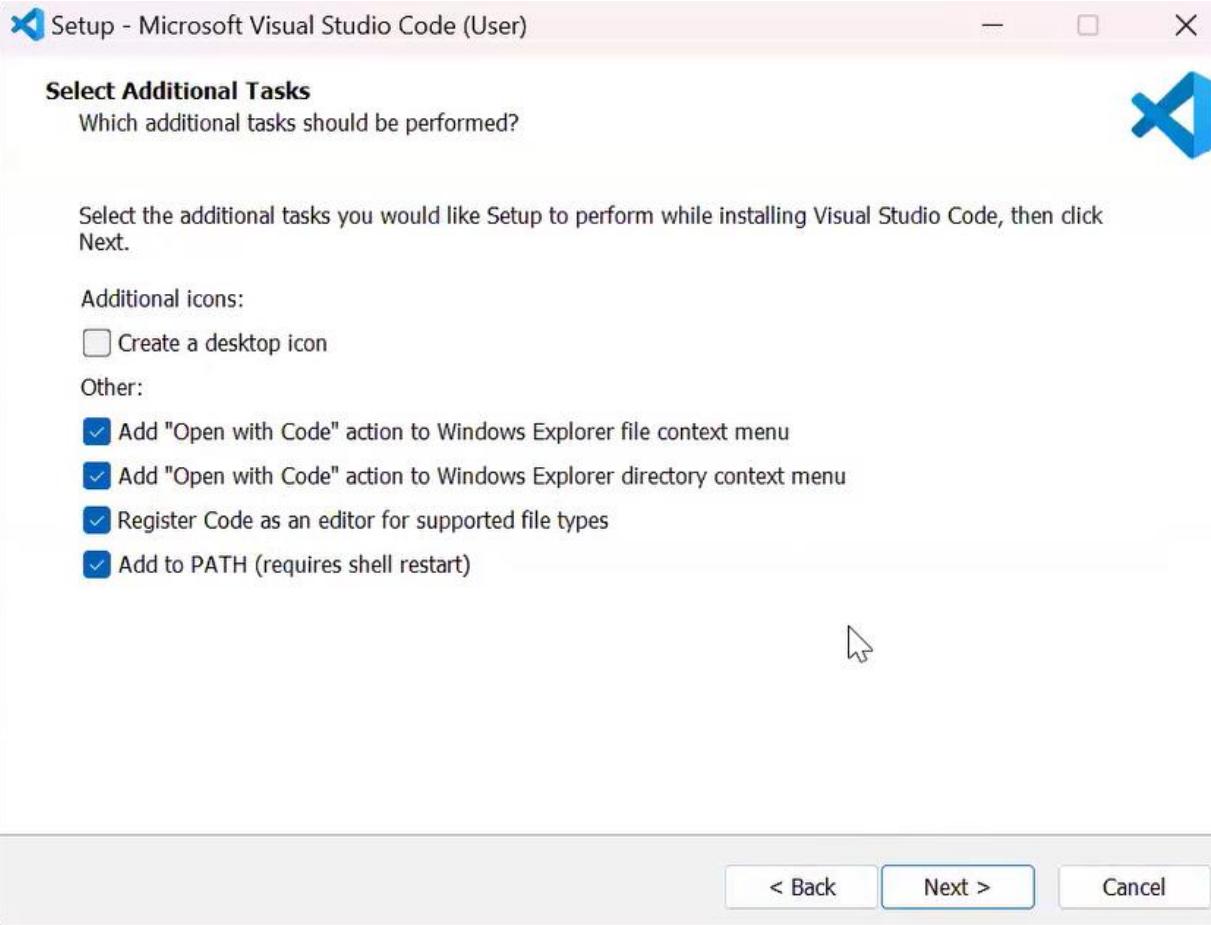
.deb [x64](#) [Arm32](#) [Arm64](#)
.rpm [x64](#) [Arm32](#) [Arm64](#)
.tar.gz [x64](#) [Arm32](#) [Arm64](#)
Snap [Snap Store](#)

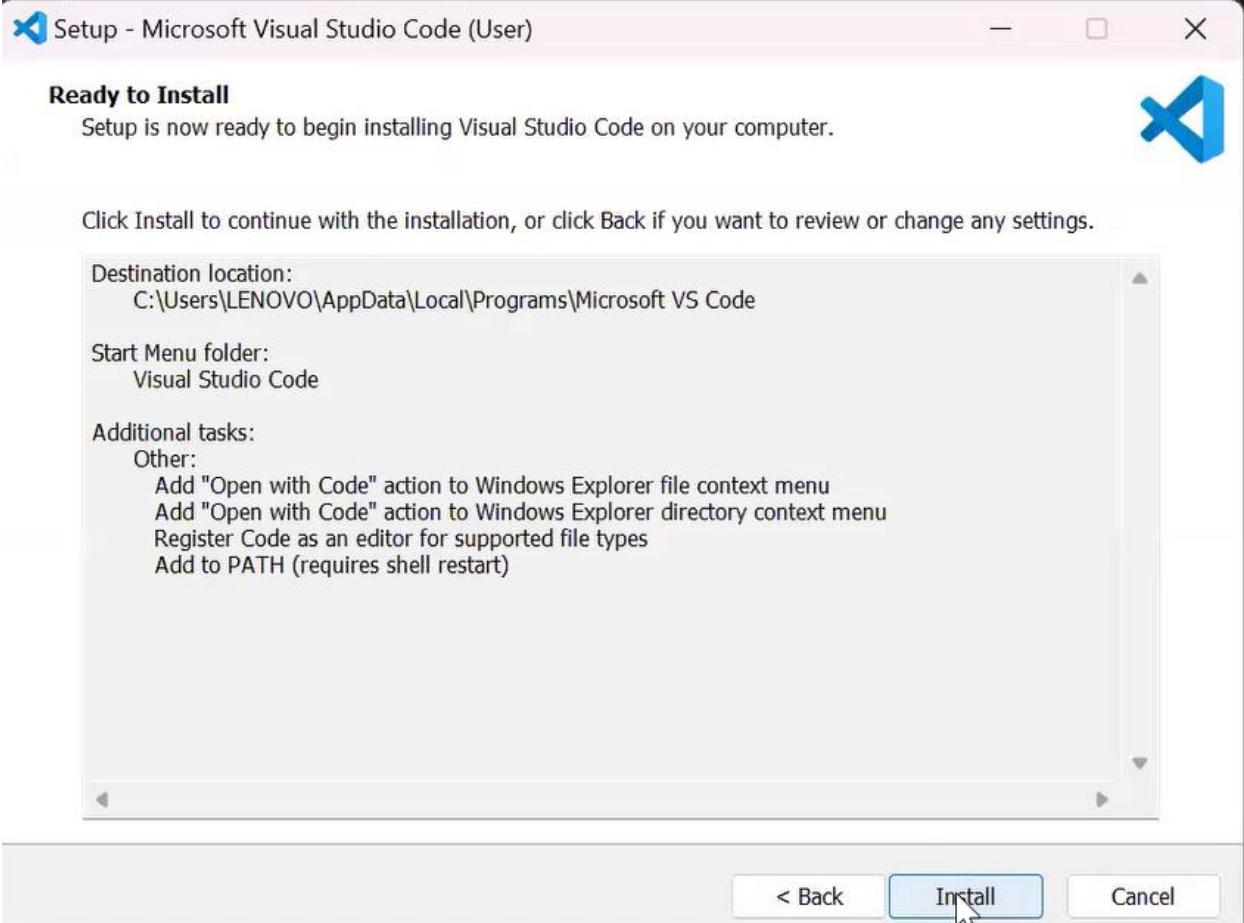
.rpm [x64](#) [Arm32](#) [Arm64](#)

Mac [macOS 10.15+](#)

.zip [Intel chip](#) [Apple silicon](#) [Universal](#)
CLI [Intel chip](#) [Apple silicon](#)









Setup - Microsoft Visual Studio Code (User)



Installing

Please wait while Setup installs Visual Studio Code on your computer.

Extracting files...

C:\Users\LENOVO\AppData\Local\Programs\Microsoft VS Code\icudtl.dat



Cancel



Setup - Microsoft Visual Studio Code (User)

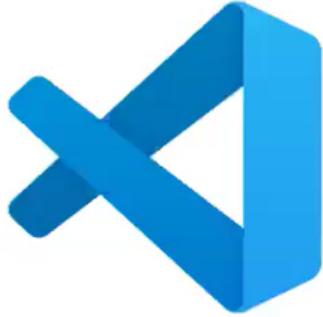


Completing the Visual Studio Code Setup Wizard

Setup has finished installing Visual Studio Code on your computer. The application may be launched by selecting the installed shortcuts.

Click Finish to exit Setup.

Launch Visual Studio Code



Finish

```
C:\> PLP programming > portfolio > registration.html > html
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7  </head>
8  <body>
9
10 </body>
11 </html>
```

A git repository was found in the parent folders of the workspace or the open file(s). Would you like to open the repository?

Source: Git

Updates are disabled because you are running the user-scope installation of Visual Studio Code as Administrator.

1. 3. Set Up Version Control System: Install Git and configure it on your local machine. Create a GitHub account for hosting your repositories. Initialize a Git repository for your project and make your first commit.

```
https://github.com HP@DESKTOP-IATTMJE MINGW64 ~/github-classroom/Powerlearnproject/se-assignment-1-setting-up-your-developer-environment-AllanMachariaM (main) $ git version
git version 2.45.2.windows.1
```

```
https://github.com/AllanMachariaM/Learn-commit.git
```

```
$ flutter --version
Flutter 3.22.2 • channel stable
• https://github.com/flutter/flutter.git Framework • revision 761747bfc5 (2 weeks ago) •
2024-06-05 22:15:13 +0200 Engine • revision edd8546116 Tools • Dart 3.4.3 • DevTools
2.34.3
```

```
HP@DESKTOP-IATTMJ MINGW64 ~/github-classroom/Powerlearnproject/se-
assignment-1-setting-up-your-developer-environment-AllanMachariaM (main) $ dart --
version
Dart SDK version: 3.4.3 (stable) (Tue Jun 4 19:51:39 2024 +0000) on
"windows_x64"
```

<https://github.com/AllanMachariaM/MyDjangoProject.git>

The screenshot shows the DuckDuckGo search interface with the query "Git". The search bar contains "Git". Below the search bar are navigation links: "Q All" (highlighted), "Images", "Videos", "News", "Maps", "Chat", and "Settings". Filter options include "Always private" (checked), "All regions", "Safe search: moderate", and "Any time". The search results page features a large image of a yellow duck logo with the word "Git" next to it. Below the image, a brief description of Git is provided: "Git is a fast and efficient tool for managing small to large projects with branching, staging, and workflows. Learn more about Git features, documentation, downloads, and community resources." To the left of the main content area, there are several sidebar sections: "Downloads" (Git comes with built-in GUI tools like git-gui and gitk, and several third-party options), "Documentation" (The External Links section is a curated collection of tutorials), "About" (Git and SVN were installed on both machines, the Ruby repository was...), "Windows" (Instructions for installing Git via winget), "Reference" (About this site, Patches, suggestions, and comments are welcome. Git is a...), and "Book" (The entire Pro Git book by Scott Chacon and Ben Straub).



About

Documentation

Downloads

GUI Clients
Logos

Community

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to read online for free. Dead tree versions are available on Amazon.com.



Search entire site...

Download for Windows

[Click here to download](#) the latest (2.45.1) 64-bit version of **Git for Windows**. This is the most recent [maintained build](#). It was released **20 days ago**, on 2024-05-14.

Other Git for Windows downloads

Standalone Installer

[32-bit Git for Windows Setup.](#)

[64-bit Git for Windows Setup.](#)

Portable ("thumbdrive edition")

[32-bit Git for Windows Portable.](#)

[64-bit Git for Windows Portable.](#)

Using winget tool

Install `winget` tool if you don't already have it, then type this command in command prompt or Powershell.

```
winget install --id Git.Git -e --source winget
```

The current source code release is version 2.45.2. If you want the newer version, you can build it from the

Choosing the default editor used by Git

Which editor would you like Git to use?



Use Notepad++ as Git's default editor



[Notepad++](#) is a popular GUI editor that can be used by Git.

This editor is popular in part due to the vast number of available plugins; However, when configured via this option, Git will call Notepad++ with plugins disabled (to open the editor as quickly as possible).

Git 2.45.1 Setup



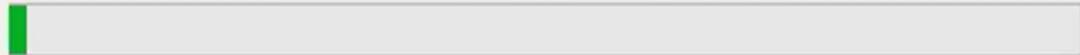
Installing

Please wait while Setup installs Git on your computer.



Extracting files...

C:\Program Files\Git\mingw64\bin\GitHub.dll



<https://gitforwindows.org/>



Cancel

Completing the Git Setup Wizard

Setup has finished installing Git on your computer. The application may be launched by selecting the installed shortcuts.

Click Finish to exit Setup.

Launch Git Bash

View Release Notes



Finish

```

MINGW64:/c/Users/ALLANM
HP@DESKTOP-IATTMJE MINGW64 ~ (master)
$ git --version
git version 2.45.2.windows.1

HP@DESKTOP-IATTMJE MINGW64 ~ (master)
$ git config
usage: git config [<options>]

Config file location
--[no-]global      use global config file
--[no-]system       use system config file
--[no-]local        use repository config file
--[no-]worktree     use per-worktree config file
-f, --[no-]file <file>          use given config file
--[no-]blob <blob-id> read config from given blob object

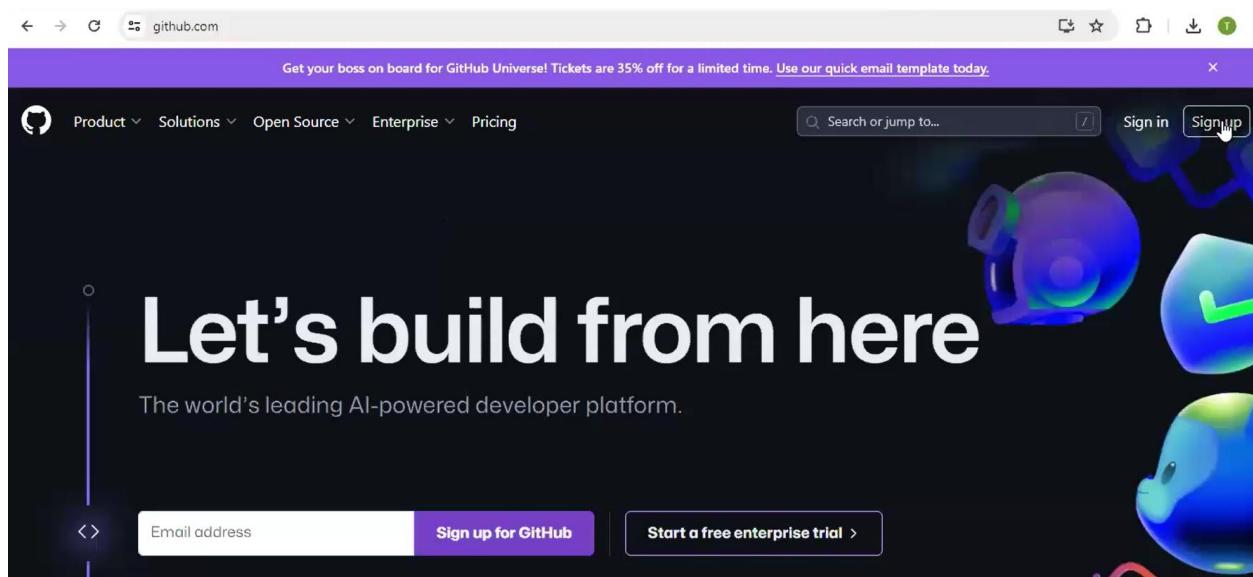
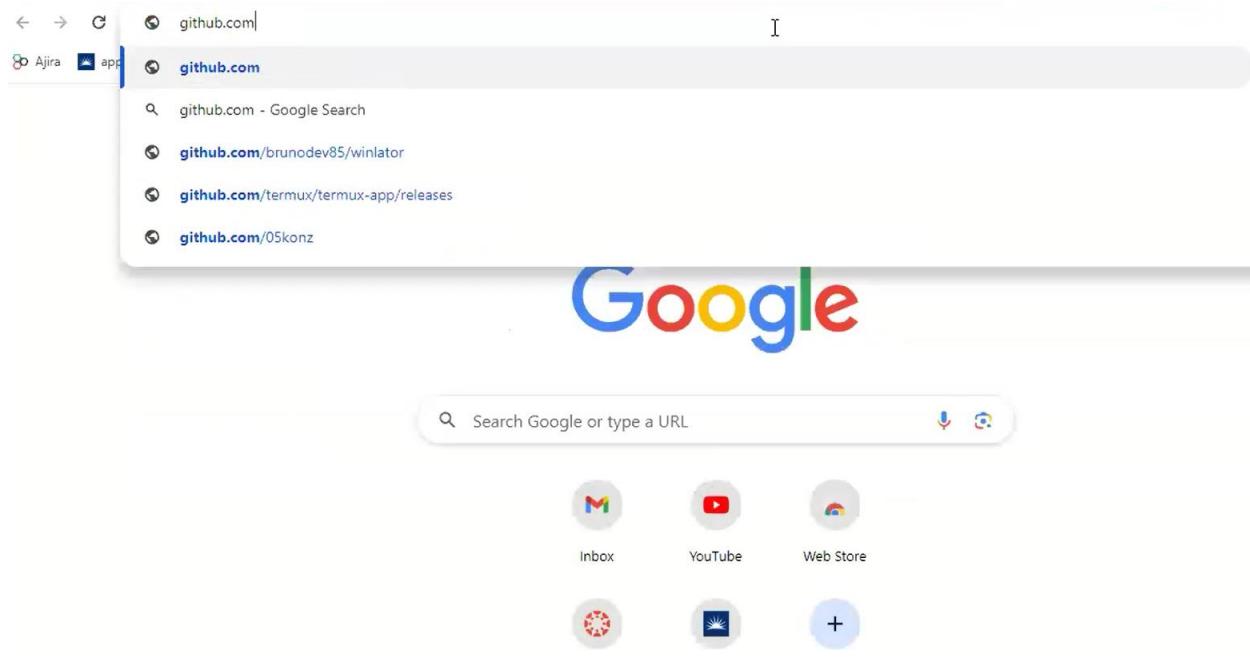
Action
--[no-]get           get value: name [value-pattern]
--[no-]get-all        get all values: key [value-pattern]
--[no-]get-regexp     get values for regexp: name-regex [value-pattern]
--[no-]get-urimatch   get value specific for the URL: section[.var] URL
--[no-]replace-all    replace all matching variables: name value [value-pattern]
--[no-]add            add a new variable: name value
--[no-]unset          remove a variable: name [value-pattern]
--[no-]unset-all      remove all matches: name [value-pattern]
--[no-]rename-section rename section: old-name new-name
--[no-]remove-section remove a section: name
-l, --[no-]list       list all
--[no-]fixed-value   use string equality when comparing values to 'value-pattern'
-e, --[no-]edit       open an editor
--[no-]get-color      find the color configured: slot [default]
--[no-]get-colorbool  find the color setting: slot [stdout-is-tty]

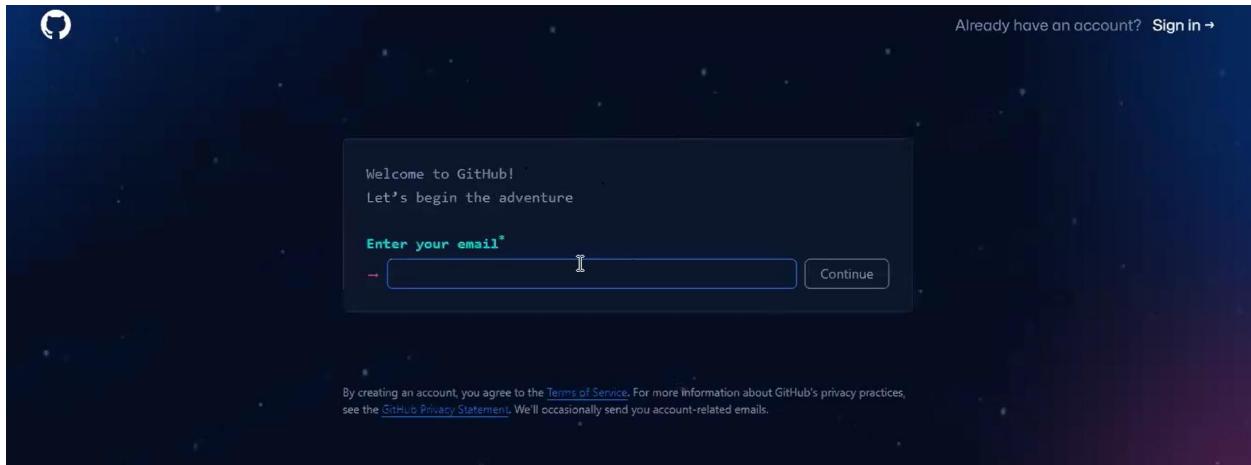
Type
-t, --[no-]type <type>
               value is given this type
--bool          value is "true" or "false"
--int           value is decimal number
--bool-or-int   value is --bool or --int
--bool-or-str   value is --bool or string
--path          value is a path (file or directory name)
--expiry-date   value is an expiry date

Other
-z, --[no-]null      terminate values with NUL byte
--[no-]name-only    show variable names only
--[no-]includes      respect include directives on lookup
--[no-]show-origin   show origin of config (file, standard input, blob, command line)
--[no-]show-scope    show scope of config (worktree, local, global, system, command)
--[no-]default <value>
                   with --get, use default value when missing entry
--[no-]comment <value>
                   human-readable comment string (# will be prepended as needed)


```

Github Installation





A screenshot of the GitHub homepage. The top navigation bar includes links for 'Create repository', 'Import repository', 'Recent activity', and a note about providing links for actions. The main content area features a 'Home' section with a 'Updates to your homepage feed' card, a 'Start writing code' button, and a 'Start a new repository for tiekourauattara' card. To the right, there is a promotional card for 'GitHub Galaxy' and a 'Latest changes' sidebar showing recent activity from the user.

```
MINGW64:c/Users/ALLANM
$ HP@DESKTOP-IATTMJE MINGW64 ~ (master)
$ git --version
git version 2.45.2.windows.1

HP@DESKTOP-IATTMJE MINGW64 ~ (master)
$ python --version
Python 3.12.4

HP@DESKTOP-IATTMJE MINGW64 ~ (master)
$ flutter --version
Flutter 3.22.2 • channel stable • https://github.com/flutter/flutter.git
Framework • revision 761747bfc5 (4 weeks ago) • 2024-06-05 22:15:13 +0200
Engine • revision edd8546116
Tools • Dart 3.4.3 • DevTools 2.34.3

HP@DESKTOP-IATTMJE MINGW64 ~ (master)
$ dart --version
Dart SDK version: 3.4.3 (stable) (Tue Jun 4 19:51:39 2024 +0000) on "windows_x64"

HP@DESKTOP-IATTMJE MINGW64 ~ (master)
$ ...
```

5. Install Package Managers: If applicable, install package managers like pip (Python).

```
HP@DESKTOP-IATTMJE MINGW64 ~ (master)
$ flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[!] Flutter (Channel stable, 3.22.2, on Microsoft Windows [Version 10.0.22631.3737], locale en-KE)
    ! Warning: 'flutter' on your path resolves to C:\Windows\System32\flutter, which is not inside your current Flutter SDK checkout at C:\f
[√] Windows Version (Installed version of Windows is version 10 or higher)
[√] Android toolchain - develop for Android devices (Android SDK version 34.0.0)
[√] Chrome - develop for the web
[X] Visual Studio - develop Windows apps
    X Visual Studio not installed; this is necessary to develop Windows apps.
        Download at https://visualstudio.microsoft.com/downloads/.
        Please install the "Desktop development with C++" workload, including all of its default components
[√] Android Studio (version 2024.1)
[√] VS Code (version 1.91.0)
[√] Connected device (3 available)
[√] Network resources

! Doctor found issues in 2 categories.

HP@DESKTOP-IATTMJE MINGW64 ~ (master)
$ ^[[200~python -m pip --version
bash: $'\E[200~python': command not found

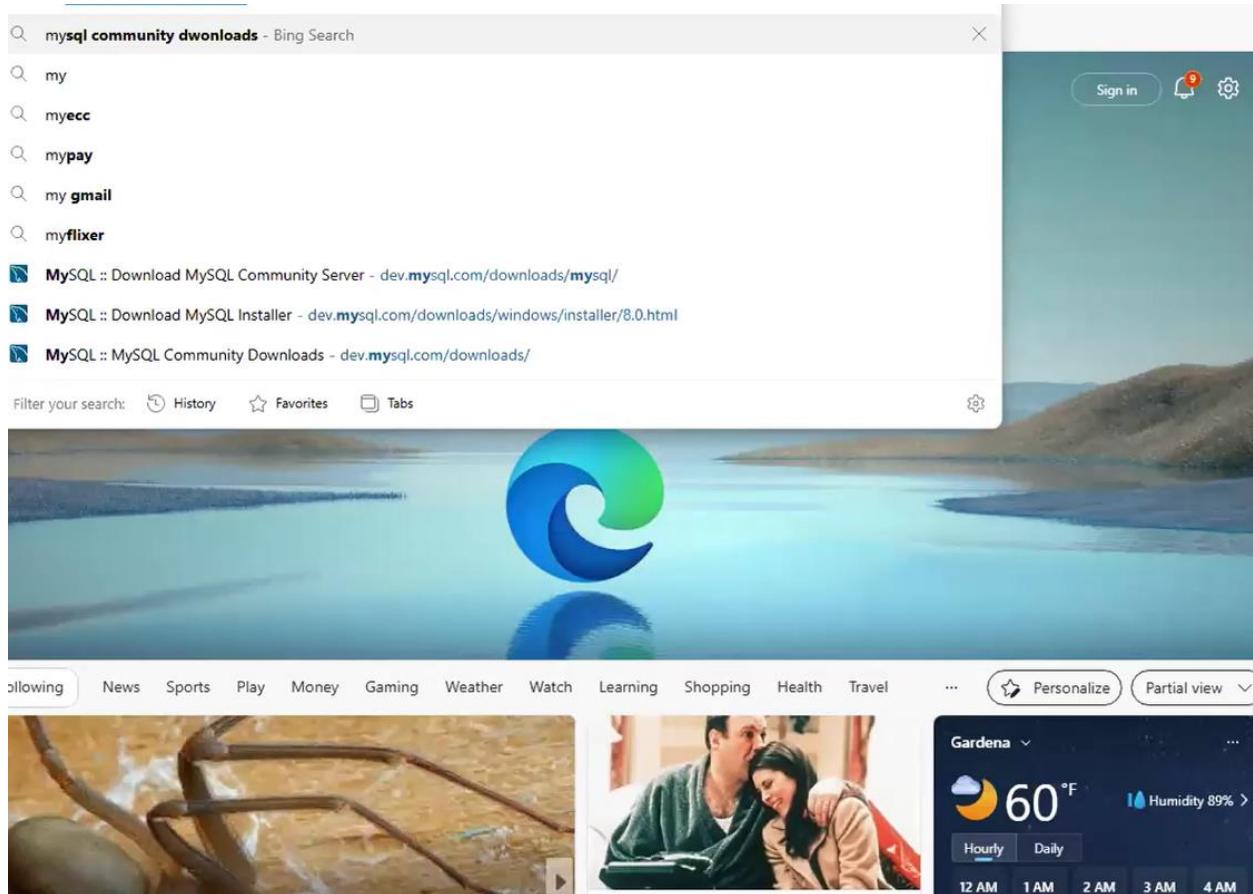
HP@DESKTOP-IATTMJE MINGW64 ~ (master)
$ python -m pip --version
pip 24.0 from C:\Users\ALLANM\AppData\Local\Programs\Python\Python312\Lib\site-packages\pip (python 3.12)

HP@DESKTOP-IATTMJE MINGW64 ~ (master)
$
```

```
HP@DESKTOP-IATTMJE MINGW64 ~ (master)
$ python -m pip --version
pip 24.0 from C:\Users\ALLANM\AppData\Local\Programs\Python\Python312\Lib\site-packages\pip (python 3.12)

HP@DESKTOP-IATTMJE MINGW64 ~ (master)
$
```

5. Configure a Database (MySQL): Download and install MySQL database. <https://dev.mysql.com/downloads/windows/installer/5.7.html>



MySQL

<https://dev.mysql.com/downloads/> ▾

[MySQL :: MySQL Community Downloads](#)

WEB MySQL Native Driver for PHP, MySQL Benchmark Tool, Time zone description tables.

Download Archives. USA/Canada: +1-866-221-0634 (More Countries »)



Enterprise

Plus, everything in MySQL Enterprise ...

[MySQL Community Server](#)

Documentation

Videos: MySQL and HeatWave Summit

2024. The keynote and sessions covering ...

Yum Repository

(mysql84-community-release-el8-1.noarch.rpm) MD5: ...

Developer Zone

"The Documents contained within this site may include statements about Oracle's ...

APT Repository

The MySQL APT repository provides a simple and convenient way to install and ...

Connector J

MySQL Connector/J is the official JDBC driver for MySQL. MySQL Connector/J ...

Archives

MySQL Product Archives This site provides archived versions of various MySQL ...

Connector C

MySQL Connector/C++ provides developers a JDBC-like API driver for MySQL. MySQL ...

https://dev.mysql.com/downloads/

MySQL Community Downloads

- MySQL Yum Repository
- MySQL APT Repository
- MySQL SUSE Repository
- MySQL Community Server
- MySQL NDB Cluster
- MySQL Router
- MySQL Shell
- MySQL Operator
- MySQL NDB Operator
- MySQL Workbench
- MySQL Installer for Windows
- C API (libmysqlclient)
- Connector/C++
- Connector/J
- Connector/.NET
- Connector/Node.js
- Connector/ODBC
- Connector/Python
- MySQL Native Driver for PHP
- MySQL Benchmark Tool
- Time zone description tables
- Download Archives

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https://dev.mysql.com/downloads/mysql/

MySQL Community Server

MySQL Community Server 8.0.37

Select Version: 8.0.37

Select Operating System: Microsoft Windows

Recommended Download:

MySQL Installer for Windows
All MySQL Products. For All Windows Platforms. In One Package.

Starting with MySQL 5.6 the MySQL Installer package replaces the traditional MSI packages.

Windows (x86, 32 & 64-bit), MySQL Installer MSI

Go to Download Page >

Other Downloads:

Windows (x86, 64-bit), ZIP Archive	8.0.37	231.5M	Download
(mysql-8.0.37-winx64.zip)			

← ⌄ https://dev.mysql.com/downloads/windows/installer/8.0.html ⌂ ⌃ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋ ⌍

MySQL Installer

General Availability (GA) Releases Archives ⌂

MySQL Installer 8.0.37

Note: MySQL 8.0 is the final series with MySQL Installer. As of MySQL 8.1, use a MySQL product's MSI or Zip archive for installation. MySQL Server 8.1 and higher also bundle MySQL Configurator, a tool that helps configure MySQL Server.

Select Version: 8.0.37

Select Operating System: Microsoft Windows

File Type	Version	File Size	Action
Windows (x86, 32-bit), MSI Installer	8.0.37	1.1M	Download
(mysql-installer-web-community-8.0.37.0.msi)		MD5: 398f1365f2	
Windows (x86, 32-bit), MSI Installer	8.0.37	296.1M	Download
(mysql-installer-community-8.0.37.0.msi)		MD5: ae605e4f62aa8bb1aef684d62a49f2	

We suggest that you use the [MD5 checksums](#) and [GnuPG signatures](#) to verify the integrity of the packages you download.

← ⌄ https://dev.mysql.com/downloads/file/?id=528489 ⌂ ⌃ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋ ⌍

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

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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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

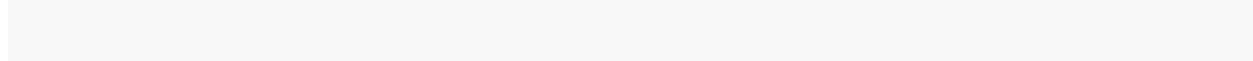
Login »
using my Oracle Web account **Sign Up »**
for an Oracle Web account

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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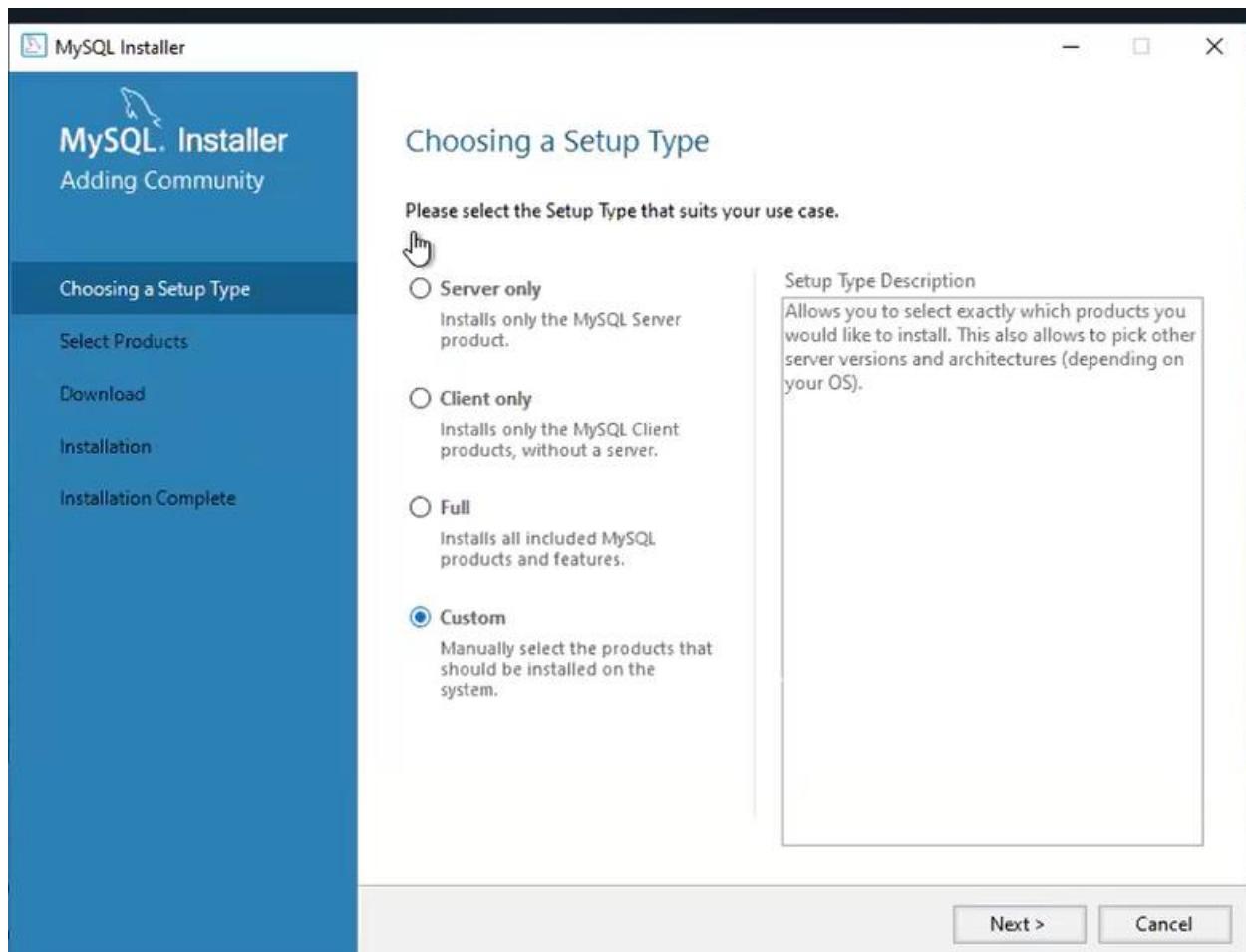
[Privacy / Do Not Sell My Info](#) | [Terms of Use](#) | [Trademark Policy](#) | [Cookie Preferences](#)

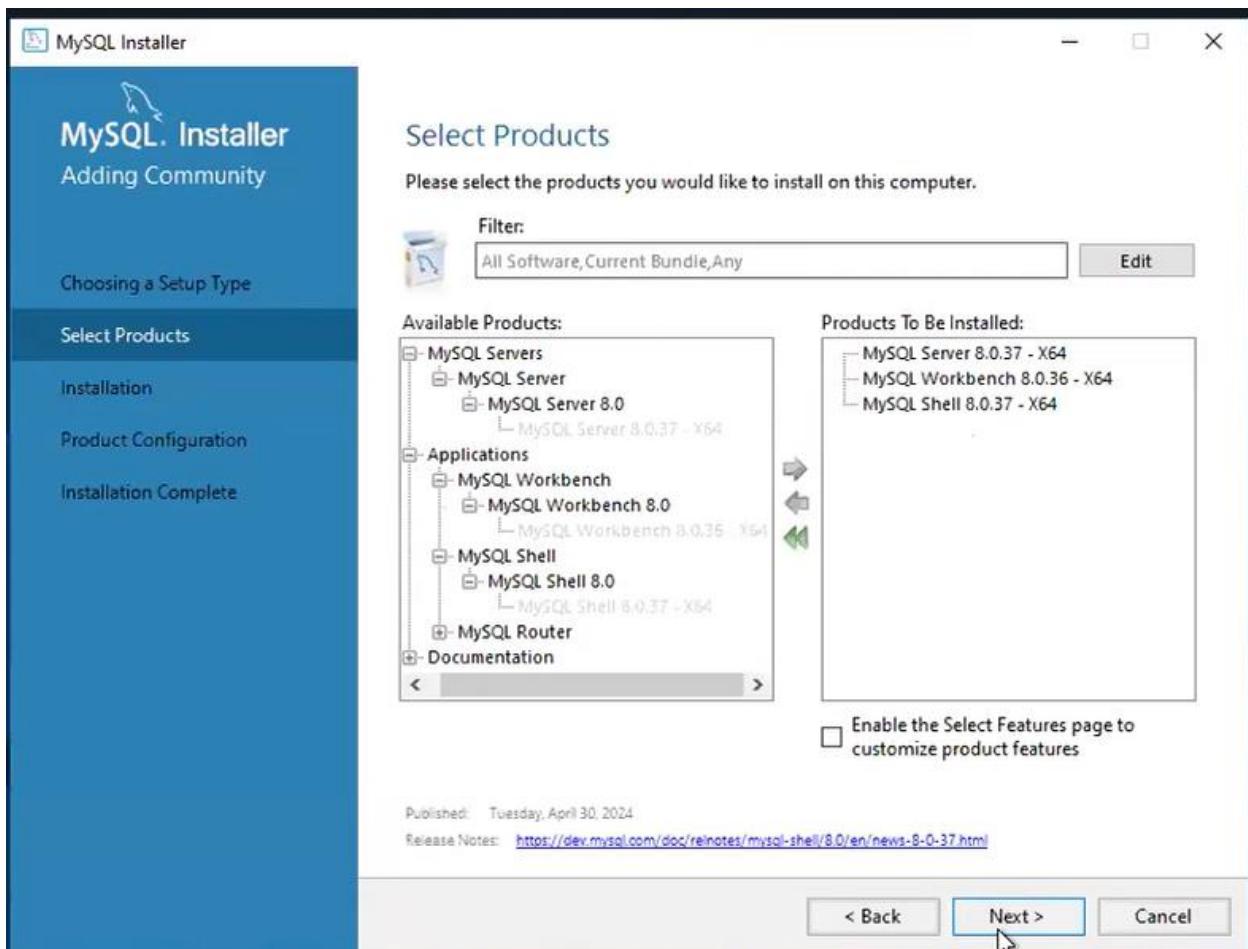


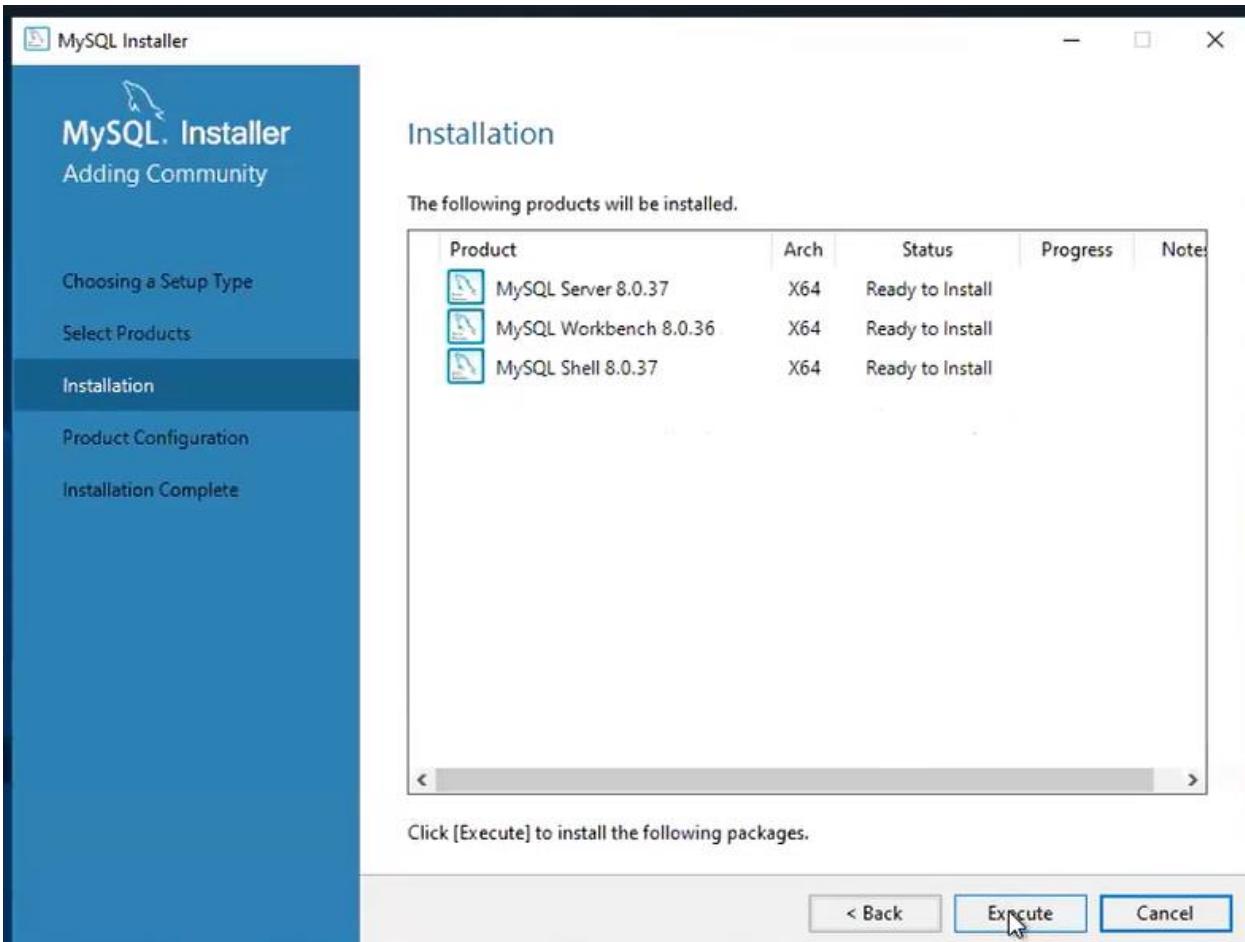
MySQL Installer

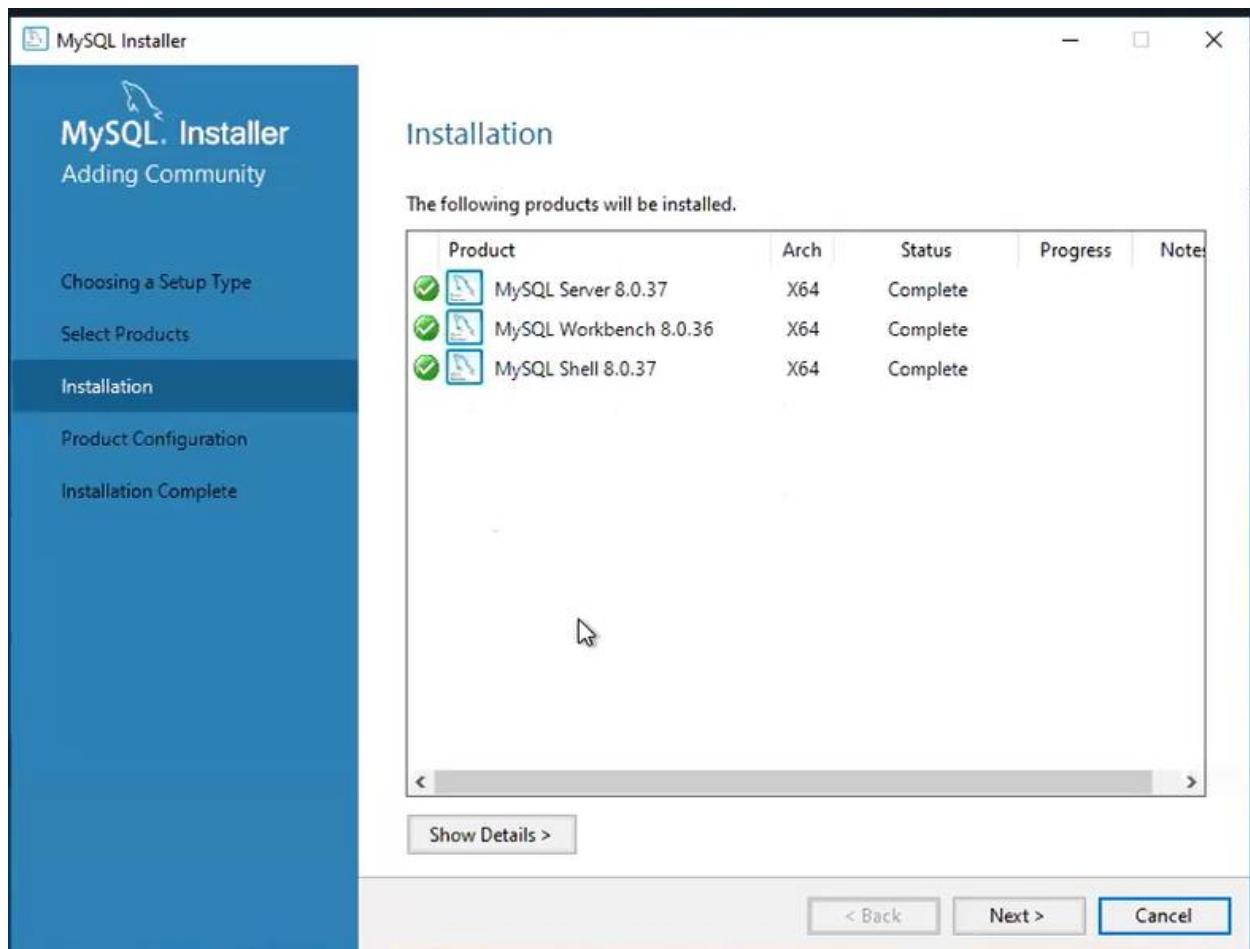
Please wait while Windows configures MySQL Installer

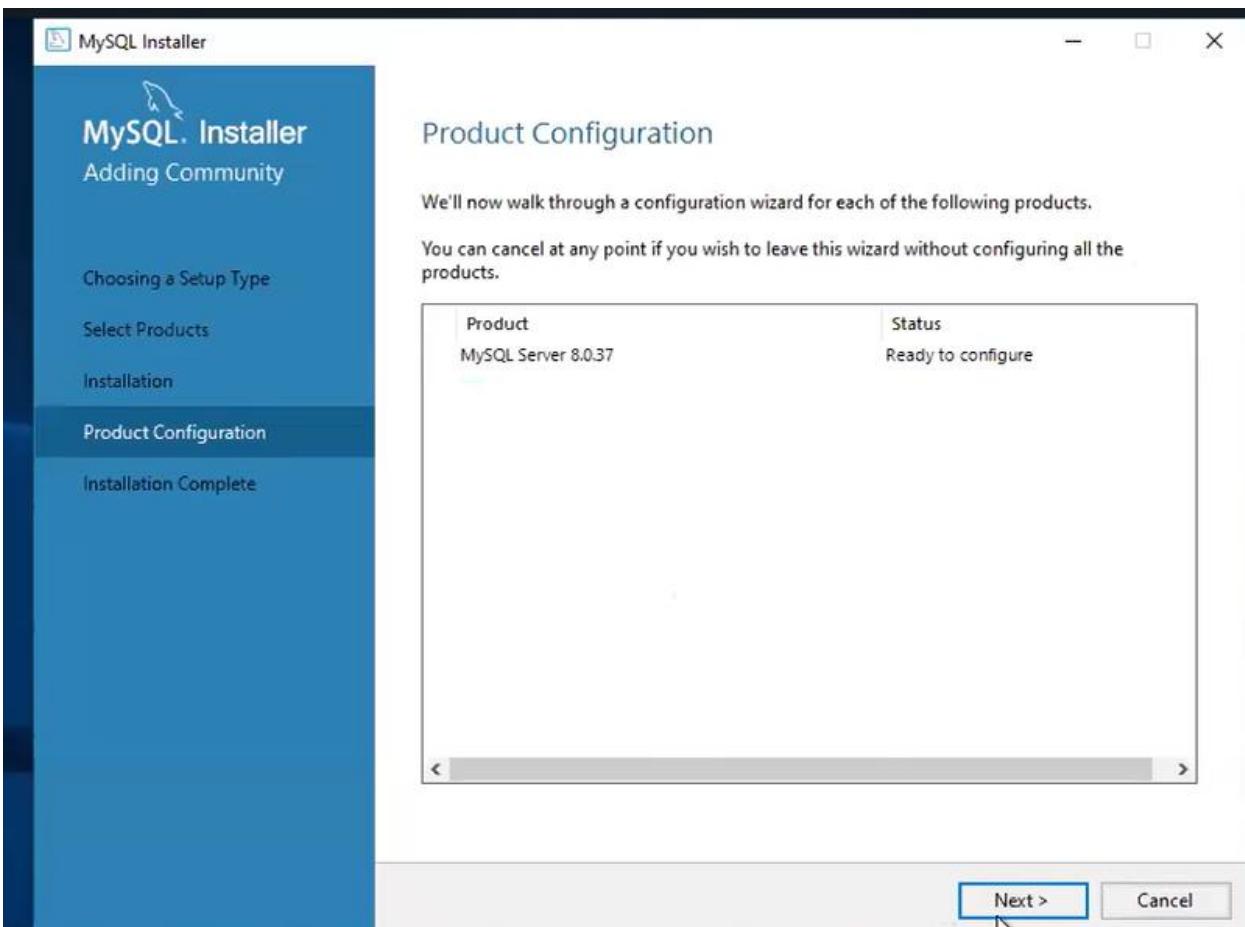
Cancel

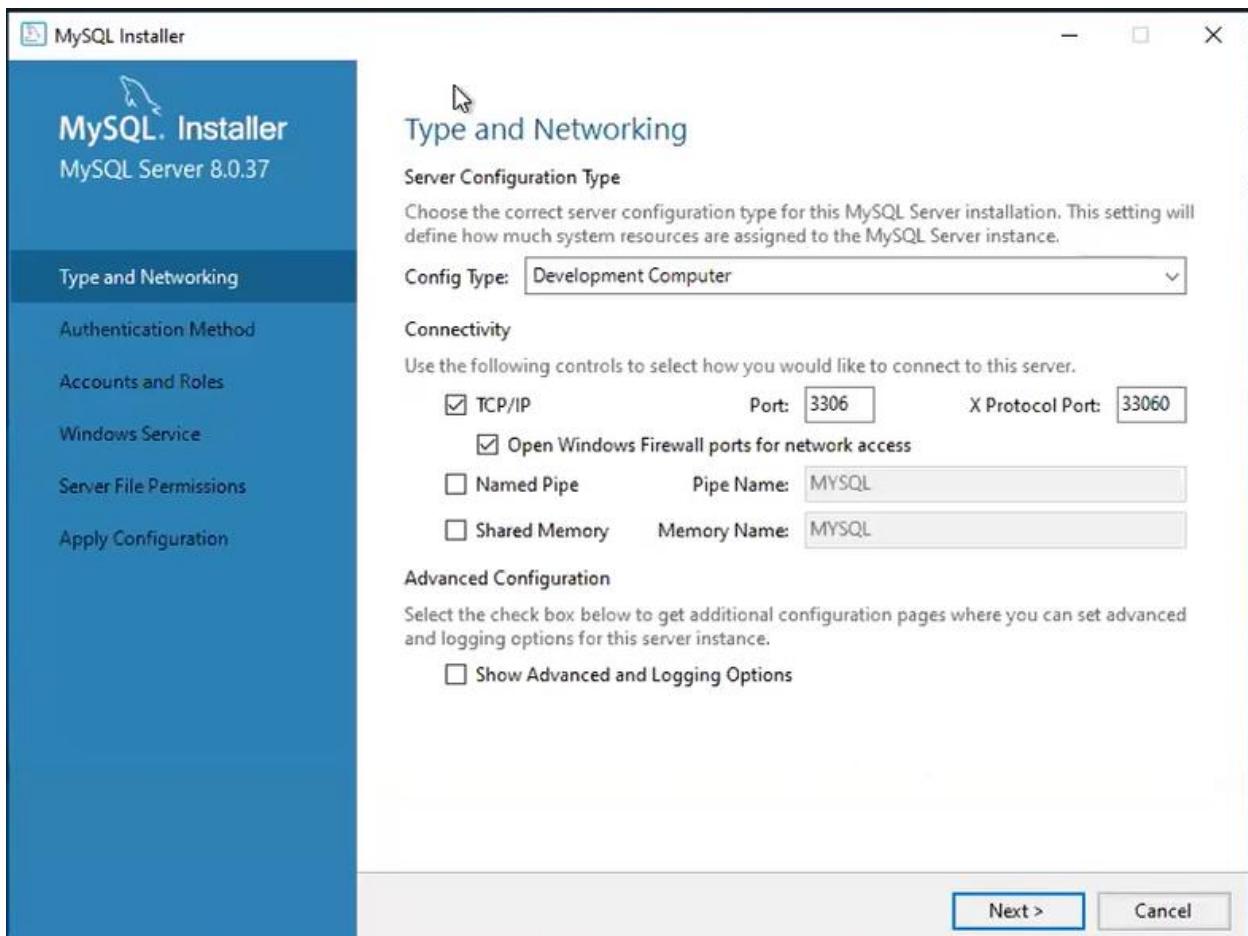












MySQL Installer

MySQL Server 8.0.37

Type and Networking

Authentication Method

Accounts and Roles

Windows Service

Server File Permissions

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:

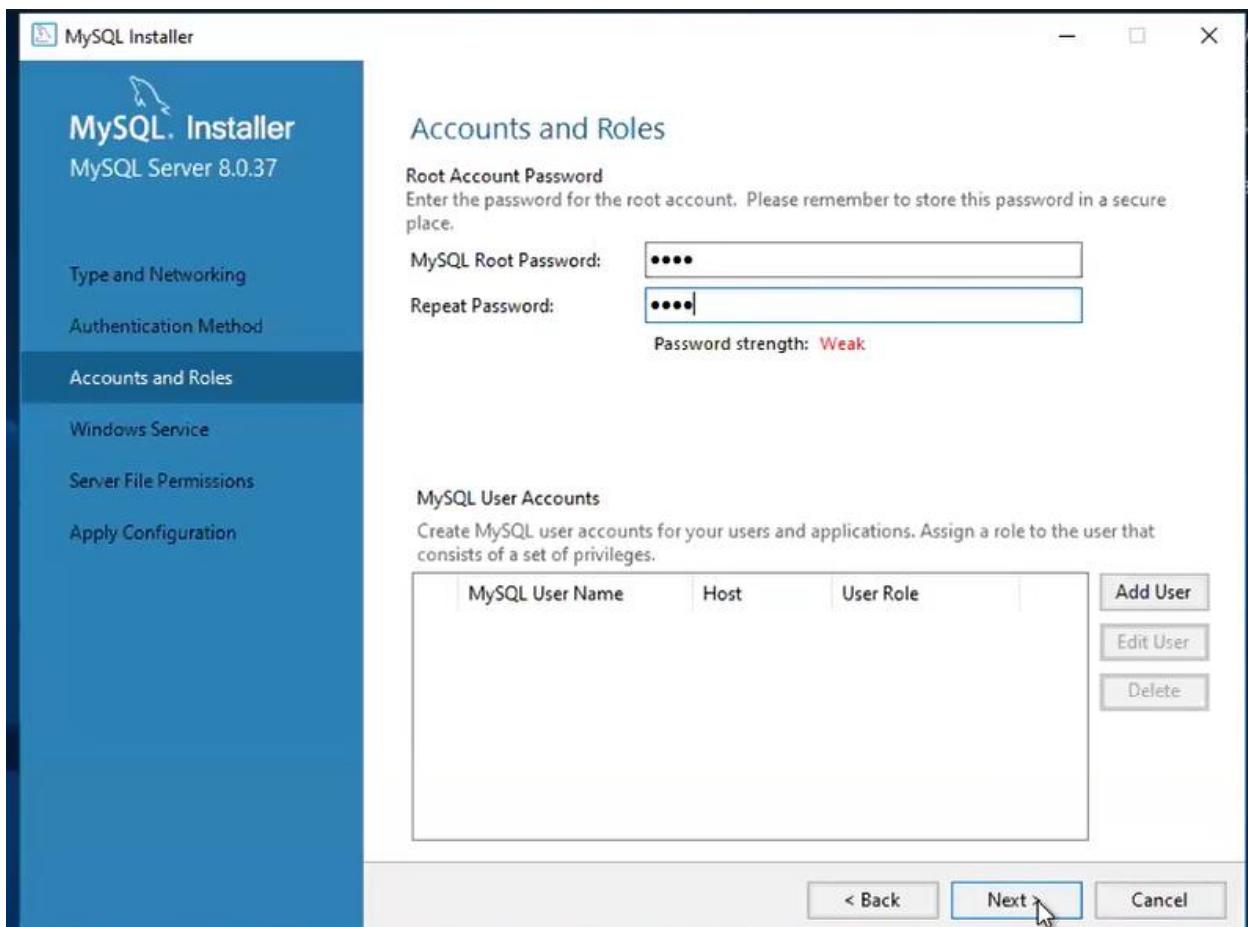
- If applications cannot be updated to use MySQL 8 enabled Connectors and drivers.
- For cases where re-compilation of an existing application is not feasible.
- An updated, language specific connector or driver is not yet available.

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





MySQL. Installer

MySQL Server 8.0.37

Type and Networking

Authentication Method

Accounts and Roles

Windows Service

Server File Permissions

Apply Configuration

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.

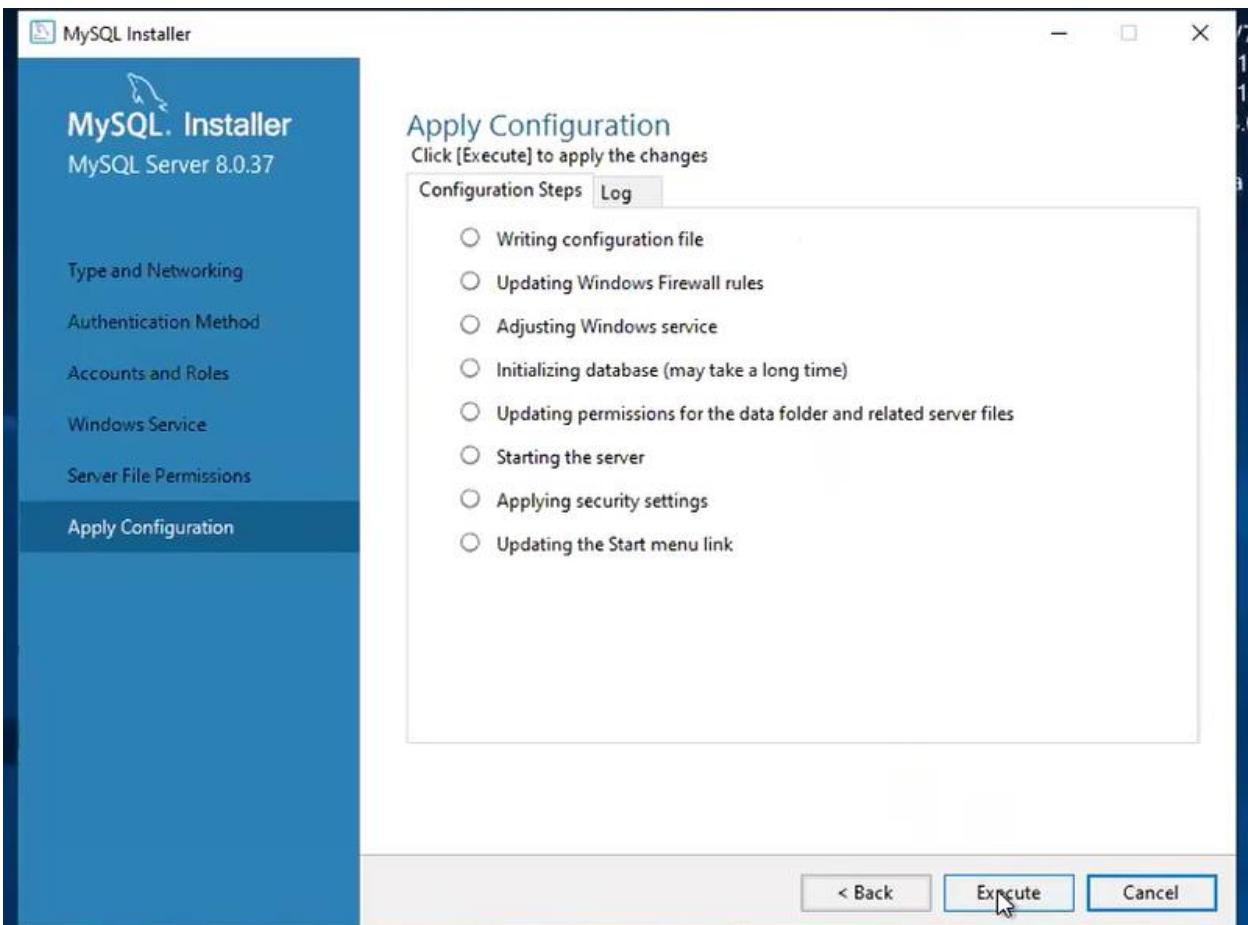
Custom User

An existing user account can be selected for advanced scenarios.

< Back

Next >

Cancel





MySQL. Installer

MySQL Server 8.0.37

Type and Networking

Authentication Method

Accounts and Roles

Windows Service

Server File Permissions

Apply Configuration

Apply Configuration

The configuration operation has completed.

Configuration Steps Log

- Writing configuration file
- Updating Windows Firewall rules
- Adjusting Windows service
- Initializing database (may take a long time)
- Updating permissions for the data folder and related server files
- Starting the server
- Applying security settings
- Updating the Start menu link

The configuration for MySQL Server 8.0.37 was successful.
Click Finish to continue.

Finish



Installation Complete

The installation procedure has been completed.

[Copy Log to Clipboard](#)

- Start MySQL Workbench after setup
- Start MySQL Shell after setup

The MySQL Shell is an advanced MySQL client application that can be used to work with single MySQL Server instances. Further, it can be used to create and manage InnoDB Cluster, an integrated solution for high availability and scalability of MySQL databases, without requiring advanced MySQL expertise.



Refer to the following links for documentation, tutorials and examples on MySQL Shell:

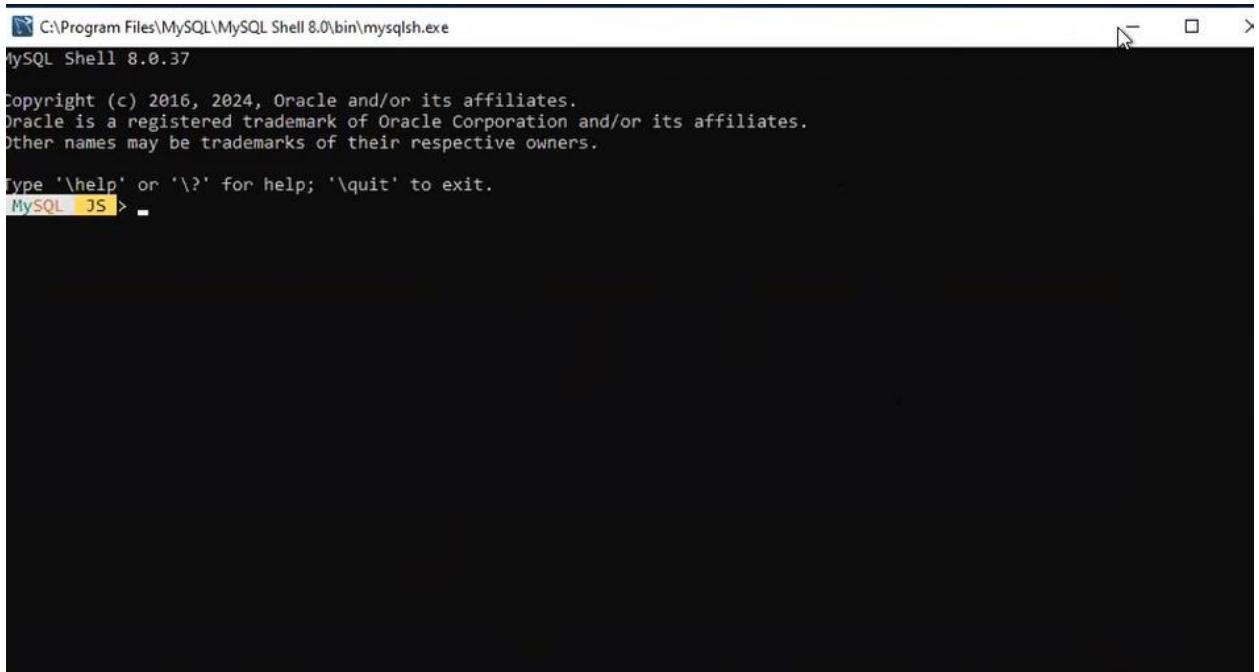
[MySQL Shell Documentation](#)

[Setting up a Real World Cluster Blog](#)

[The All New MySQL InnoDB ReplicaSet Blog](#)

[Changing Cluster Options Live Blog](#)

[Finish](#)



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

MySQL Shell 8.0.37

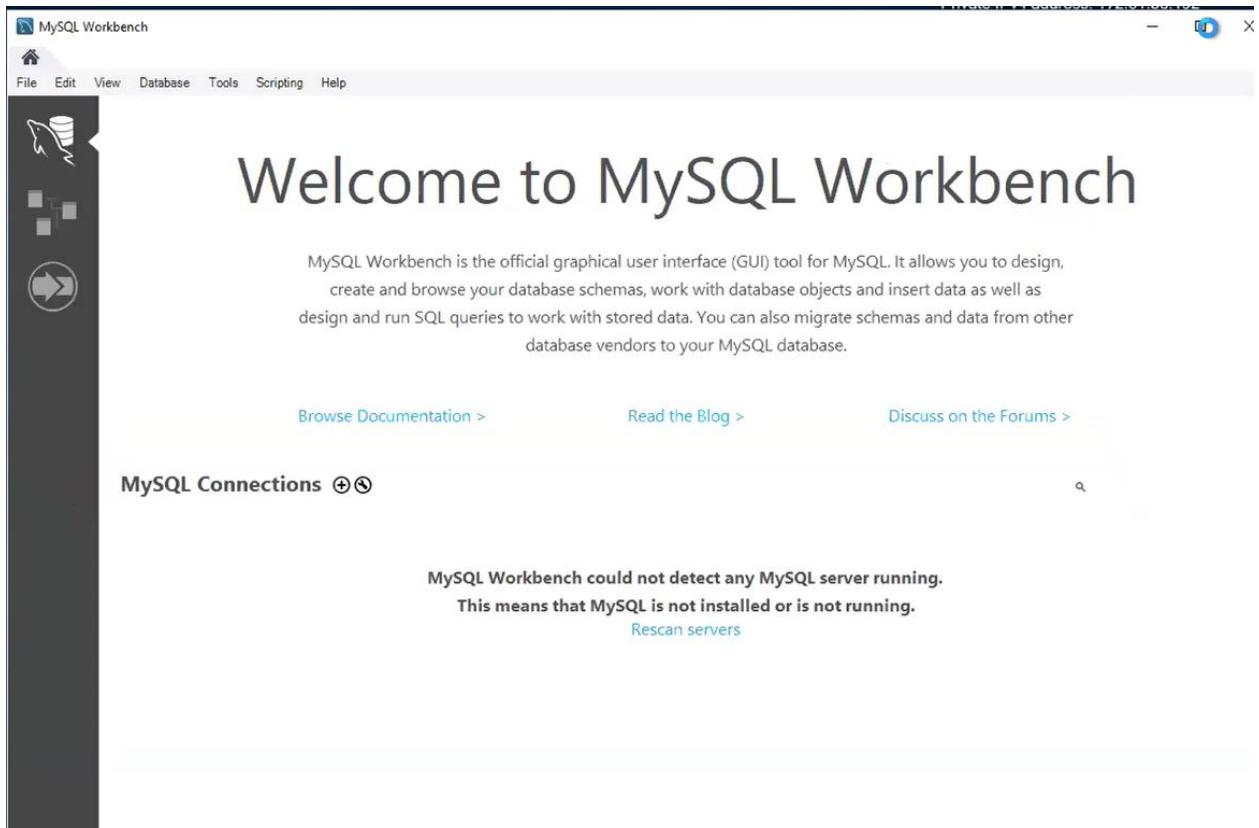
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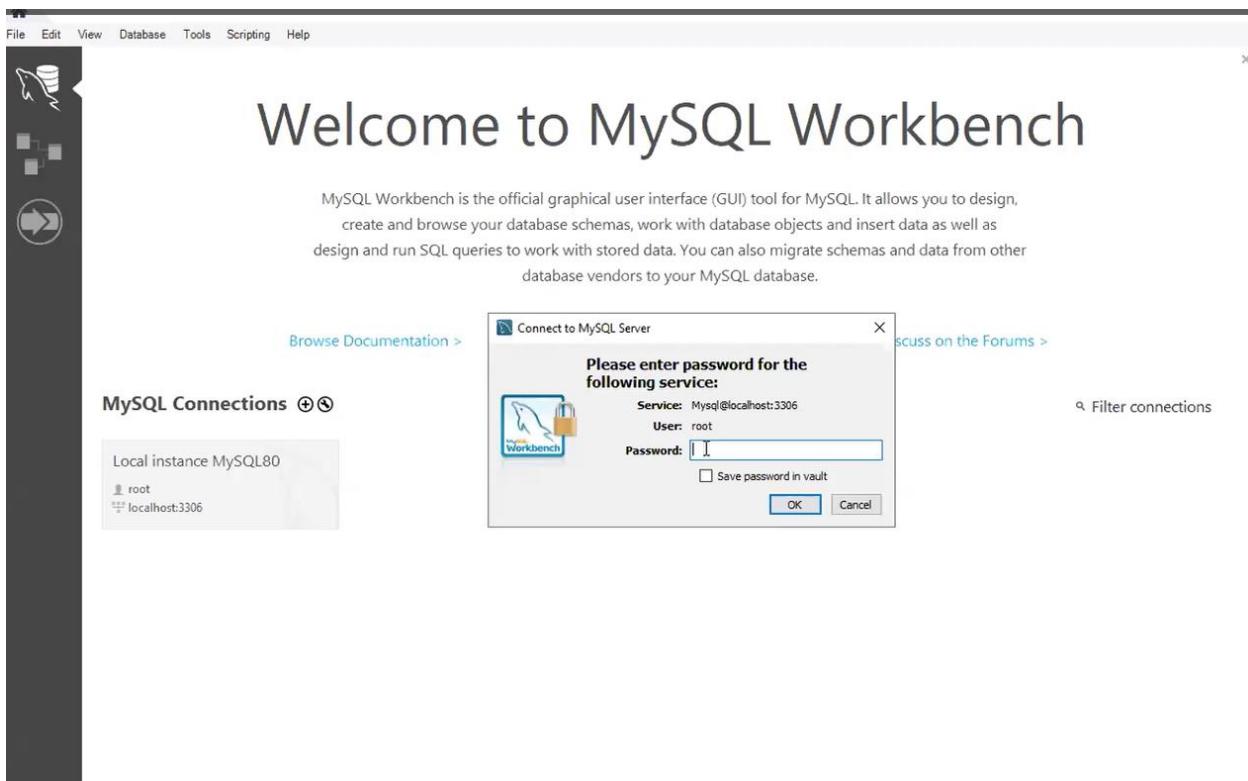
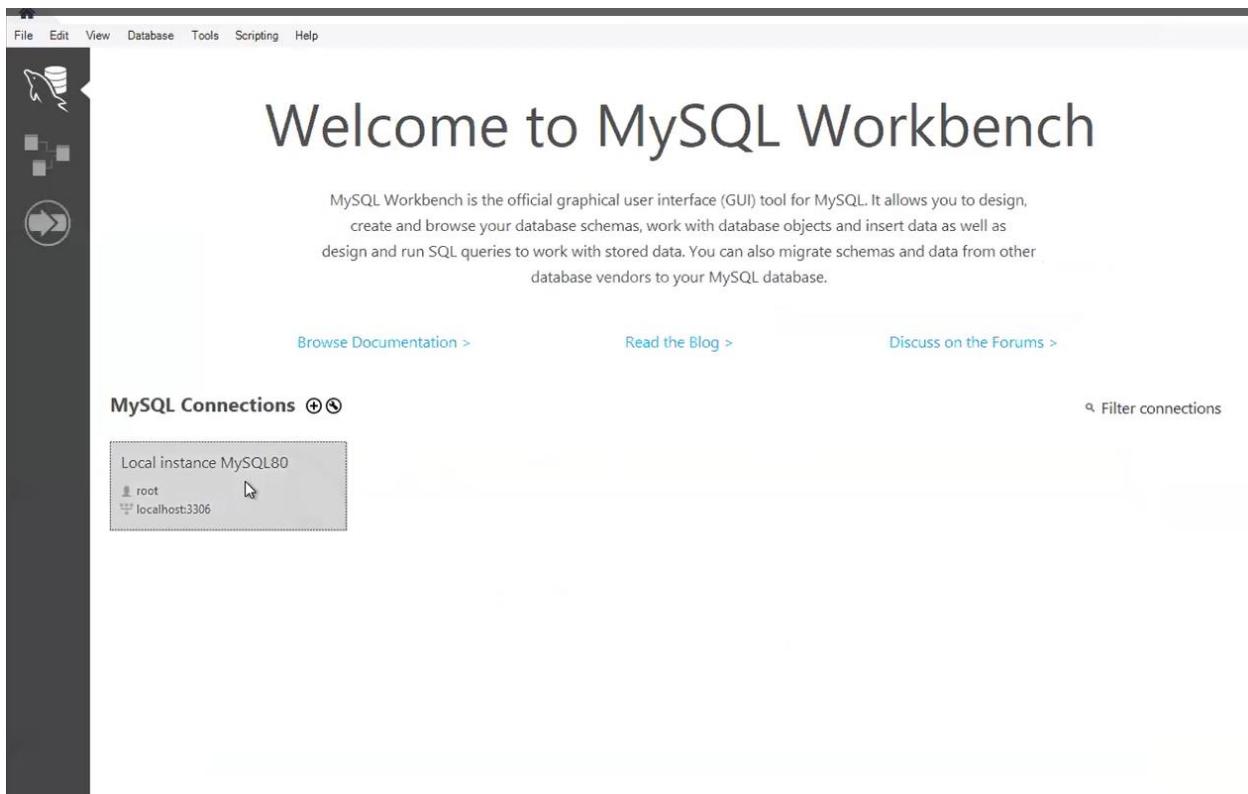
Oracle is a registered trademark of Oracle Corporation and/or its affiliates.

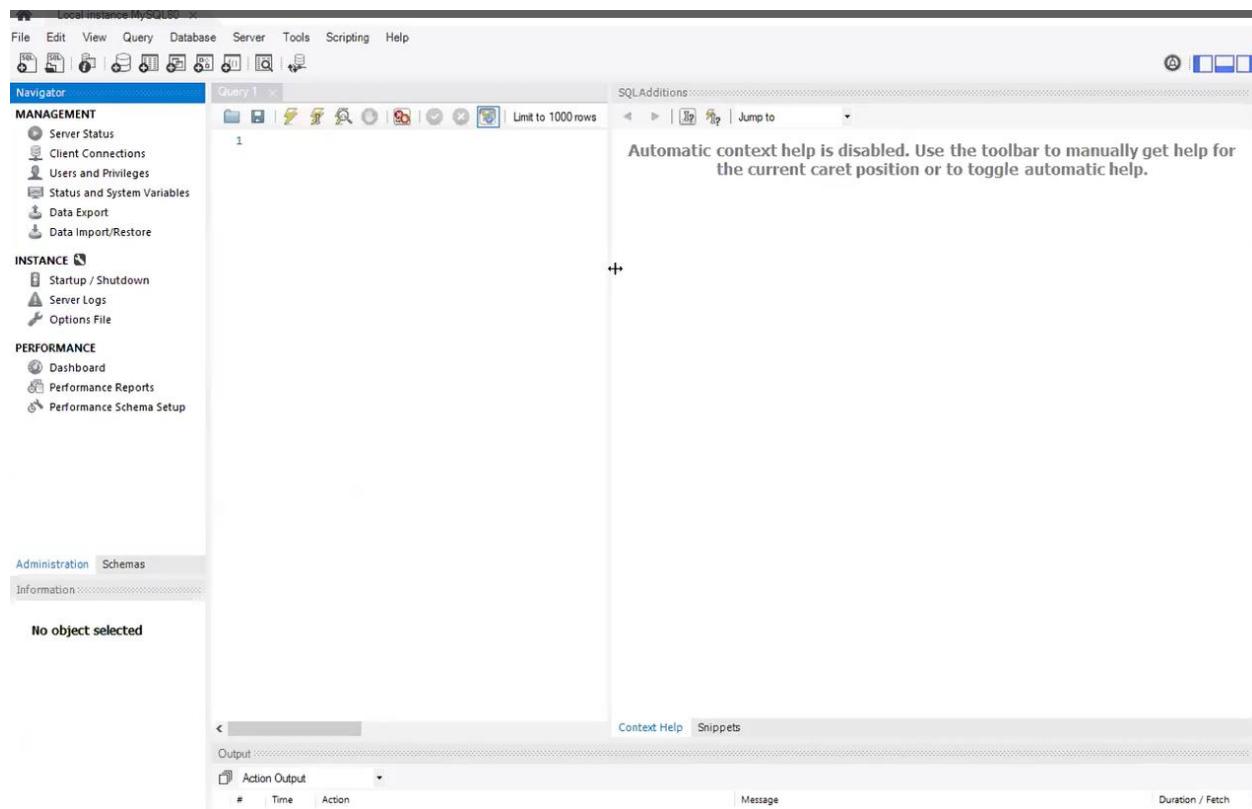
Other names may be trademarks of their respective owners.

Type '\help' or '\?' for help; '\quit' to exit.

MySQL JS > -







5. Set Up Development Environments and Virtualization (Optional): Consider using virtualization tools like Docker or virtual machines to isolate project dependencies and ensure consistent environments across different machines.

-Installed Visual Studio Code (VSCode): which is a versatile code editor that supports various languages and extensions.

- Set Up Python Development Environment:

-Installed Python.

-Created a virtual environments using tools like venv.

-Used VSCode for Python development.

Version Control with Git:

Installed Git for Windows.

-Set up Git globally with your username and email.

Learnt Git basics (commit, push, pull)..

Docker (Containerization):

Docker allows you to package applications and their dependencies into containers.

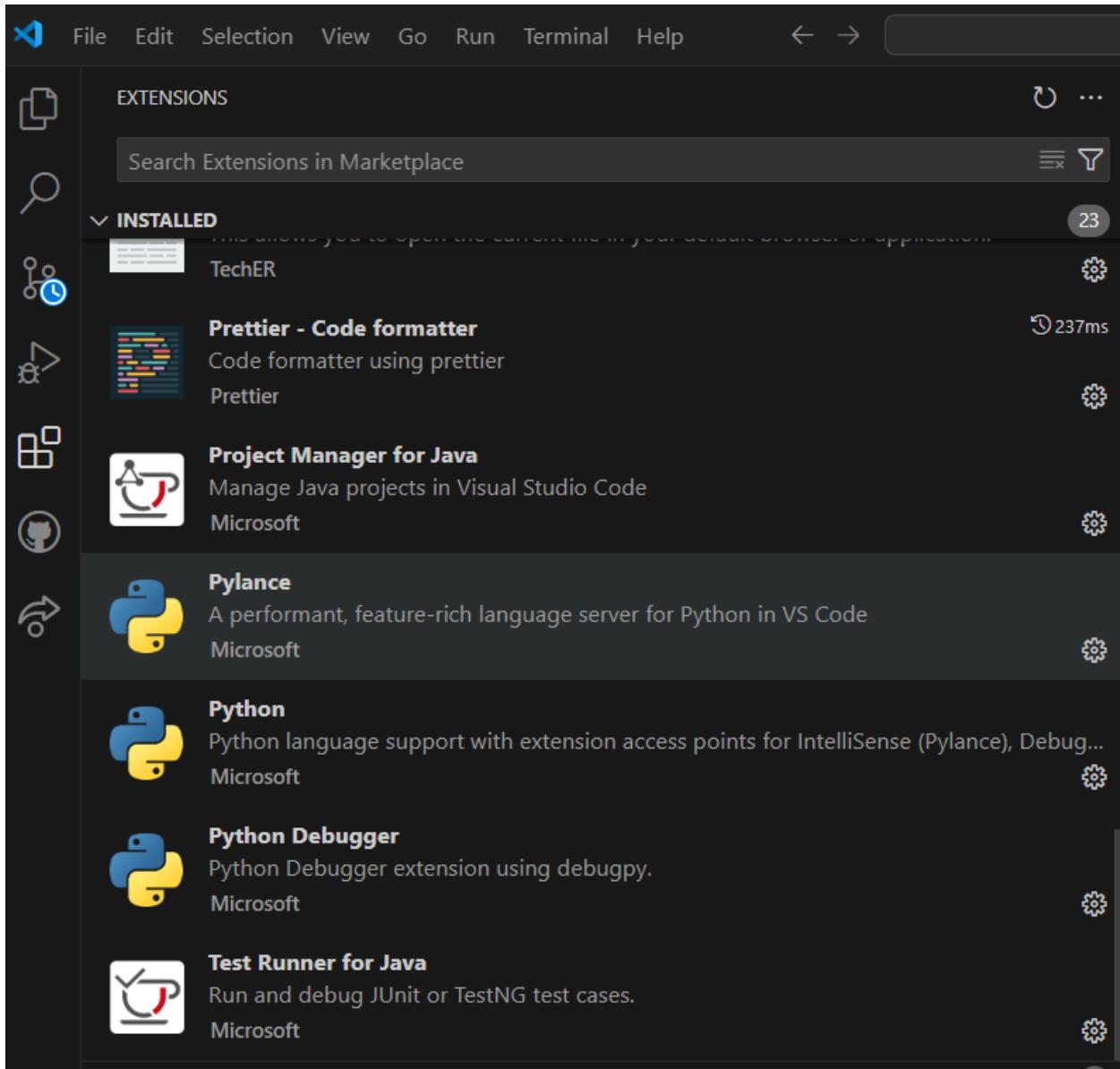
Containers share the host OS kernel but remain isolated.

Ideal for microservices architecture and consistent deployment.

Explore Extensions and Plugins: Explore available extensions, plugins, and add-ons for your chosen text editor or IDE to enhance functionality, such as syntax highlighting, linting, code formatting, and version control integration

The screenshot shows the Extensions sidebar in Visual Studio Code. The sidebar has a dark theme with light-colored icons. At the top, there's a search bar labeled "Search Extensions in Marketplace". Below it, a section titled "INSTALLED" is expanded, showing the following extensions:

- GitHub** (23 updates) - Pull Request and Issue Provider for GitHub by GitHub. Status: 184ms.
- GitHub Pull Requests** - Pull Request and Issue Provider for GitHub by GitHub. Status: 184ms.
- HTML CSS Support** (14ms) - CSS Intellisense for HTML by ecmel.
- IntelliCode** - AI-assisted development by Microsoft. Status: 14ms.
- IntelliCode API Usage Examples** - See relevant code examples from GitHub for over 100K different APIs right in your editor. by Microsoft. Status: 14ms.
- Java** - Java Platform Extension for Visual Studio Code by Oracle Corporation. Status: 14ms.
- Language Support for Java(TM) by Red Hat** - Java Linting, Intellisense, formatting, refactoring, Maven/Gradle support and more... by Red Hat. Status: 14ms.



The screenshot shows the Visual Studio Code Extensions Marketplace. The top navigation bar includes File, Edit, Selection, View, Go, Run, Terminal, Help, and a search bar. Below the navigation is a sidebar with icons for file operations like Open, Save, Find, and others.

EXTENSIONS

Search Extensions in Marketplace

INSTALLED (23)

- Code Runner** by Jun Han (307ms)
Run C, C++, Java, JS, PHP, Python, Perl, Ruby, Go, Lua, Groovy, PowerShell, CMD, BASH, ...
Details
- CodeSnap** by adpyke
Take beautiful screenshots of your code
Details
- Dart** by Dart Code
Dart language support and debugger for Visual Studio Code.
Details
- Debugger for Java** by Microsoft
A lightweight Java debugger for Visual Studio Code.
Details
- Extension Pack for Java** by Microsoft
Popular extensions for Java development that provides Java IntelliSense, debugging, tes...
Details
- Flutter** by Dart Code
Flutter support and debugger for Visual Studio Code.
Details
- GitHub Classroom** by Microsoft (74ms)
Browse, edit and collaborate on your GitHub Classroom assignments.
Details

RECOMMENDED (5)

- Microsoft Edge Tools for VS Code** by Microsoft (3.6M)
Use the Microsoft Edge Tools from within VS Code to see your site's runtime HTML stru...
Install
- Docker** by Microsoft (35.2M)
Makes it easy to create, manage, and debug containerized applications.
Install
- GitHub Copilot** by GitHub (17.9M)
Details

5. Document Your Setup: Create a comprehensive document outlining the steps you've taken to set up your developer environment. Include any configurations, customizations, or troubleshooting steps encountered during the process.

Setting Up a Development Environment:

1. Choose Your Tools and Software:

List the tools, software, and frameworks you'll be using (e.g., IDEs, text editors, version control systems).

Specify the versions you've installed (e.g., Visual Studio Code, Git, Python).

2. Installation Steps:

Provide step-by-step instructions for installing each tool:

Include download links or package manager commands.

Mention any dependencies required.

3. Configuration and Customization:

Describe any customizations you've made:

IDE settings (e.g., extensions, themes).

Git configurations (username, email).

Environment variables.

4. Project Setup:

Explain how to set up a new project:

Cloning the repository.

Installing project-specific dependencies.

Running tests and build scripts.

5. Environment Variables:

Document any environment variables needed for your projects.

Explain where to set them (e.g., .env files, system environment variables).

6. Troubleshooting Tips:

List common issues and their solutions:

Git authentication problems.

IDE not recognizing packages.

Network-related errors.

7. Best Practices:

Share coding conventions and best practices:

Code style guidelines.

Commit message conventions.

Folder structure recommendations.

8. Security Considerations:

Highlight security practices:

Avoid hardcoding sensitive information.

Use secure connections (HTTPS, SSH).

9. Version Control Workflow:

Explain your team's Git workflow:

Branching strategies (feature branches, pull requests).

Code reviews.

10. Sample Commands:

Include common commands developers will use:

Git commands (clone, commit, push).

Package manager commands (npm, pip).

```
HP@DESKTOP-IATTMJE MINGW64 ~/github-classroom/Powerlearnproject/se-assignment-1-
setting-up-your-developer-environment-AllanMachariaM (main) $ python --version Python
3.12.4
```