

NEDAMCO AFRICA ACADEMY BASECAMP PHASE

Installation Guide





Agenda

- 1 Installing Ubuntu and VirtualBox
- 2 Installing Python Environment
- 3 Installing Jupyter Lab
- 4 Installing Visual Studio
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Agenda

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Installing MySQL WorkBench



Installing Ubuntu and Virtual Box





A video tutorial on how to install Linux in VirtualBox on Windows

How To Download And Install Linux On Windows 11 - YouTube





Download the Virtual box using the link

https://www.virtualbox.org/

Click on the link above to go to the Virtual box website





Download Ubuntu using the link below:

https://ubuntu.com/download/desktop#download





Python Environment Set-up

Kindly find attached guidance for setting up the Python environment in your window machines. Here are the links;

- 1. Download and install Visual Studio code *here*
- 2. Download Python and install *here*
- 3. During the installation, make sure to check the box that says "Add Python to PATH." This will add Python to the system environment variables, allowing you to run Python from the command line.
- 4. To verify the installation, open your command prompt and type *python --version*. This will display the version of Python installed, indicating that the installation was successful.
- 3. Now open your Visual Studio, click on extensions and search Python then select install. After that, you are good to go.
- To start using and creating your first file, check the guidance here





NB

For those with the python environments, no need to setup again

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 editor, optimized for building and debugging. Use the link *here*





Installing JupyterLab

Once Python is installed on your computer, you can install JupyterLab using the Python package manager, pip. Open your command prompt or terminal and enter the following command:

pip install jupyterlab

Once installed, you can start JupyterLab by typing the following command in your terminal:

jupyter lab





Alternative: Installing Anaconda Navigator

NOTE: If the above installations were successful, you do not need to proceed with this alternative tool. It is only provided for those facing challenges with the procedure outlined above.

Anaconda Navigator is a convenient all-in-one tool that includes Python, JupyterLab, Pandas, and many other useful Python packages.

- 1. Visit the Anaconda Official Website: Go to https://www.anaconda.com/download
- 2. Download Anaconda: Choose the installer for your operating system and download it.
- 3. Run the Installer: Open the downloaded file and follow the installation instructions
- 4. Ensure that you allow Anaconda to add itself to the PATH (this is usually a checkbox in the installer).
- 5. Verify Installation: Open Anaconda Navigator from your applications folder (or Start Menu on Windows). You should see options to launch JupyterLab and other tools.





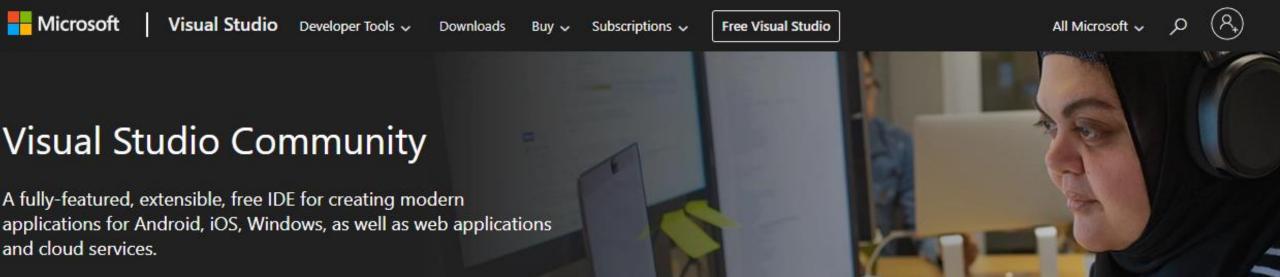
Installing Visual Studio



C# Getting Started

- To write C# codes, we need a tool called the IDE
- IDE (Integrated Development Environment) is programming tool used to edit and compile code.
- There are many different IDEs, some common ones are: Notepad++, Android Studio, Sublime, VS Codei, Visual Studio.
- For this training we would be using **Visual Studio Community Edition**. It is Free for students, individuals and open-source contributors.
- Please visit: https://www.visualstudio.com/en-us/products/visual-studio-community-vs.aspx
- Click on the Download button to download and install the Visual Studio Installer.





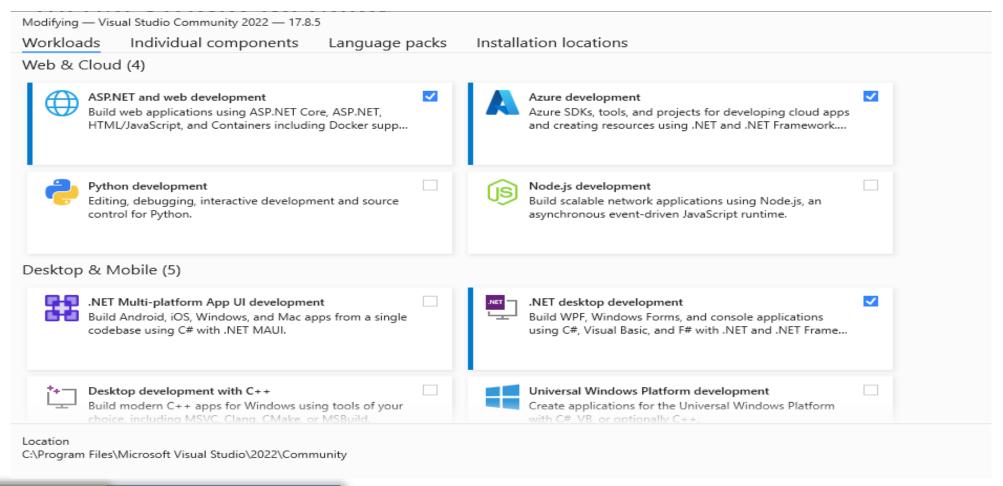
Download





Choose Desired Workloads

- Once the Visual Studio Installer is downloaded and installed, choose the desired .NET workloads and click on the Modify/Install button
- After the installation is complete, click on the Launch button to get started with Visual Studio.





Launch Visual Studio

 After the installation is complete, click on the Launch button to get started with Visual Studio.







Launch Visual Studio

- After Visual Studio is loaded, it will display the Start Page.
- This is the page from which you can create new projects or open already existing ones.

Visual Studio 2022

Open recent

As you use Visual Studio, any projects, folders, or files that you open will show up here for quick access.

You can pin anything that you open frequently so that it's always at the top of the list.

Get started

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Clone a repository

Get code from an online repository like GitHub or Azure DevOps



Open a project or solution

Open a local Visual Studio project or .sln file



Open a local folder

Navigate and edit code within any folder



Create a new project

Choose a project template with code scaffolding to get started

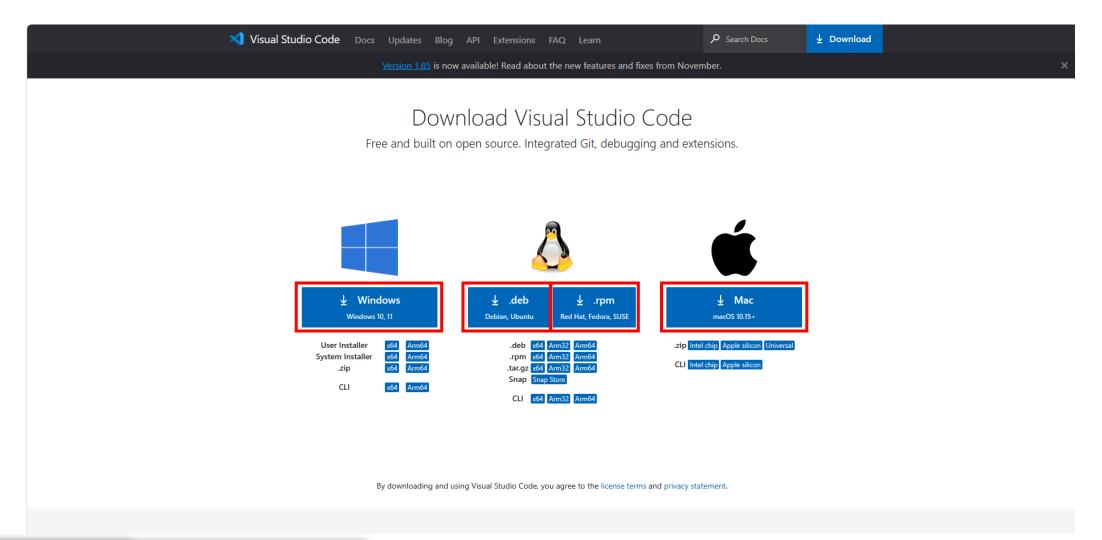
Continue without code →





Installing Visual Studio Code

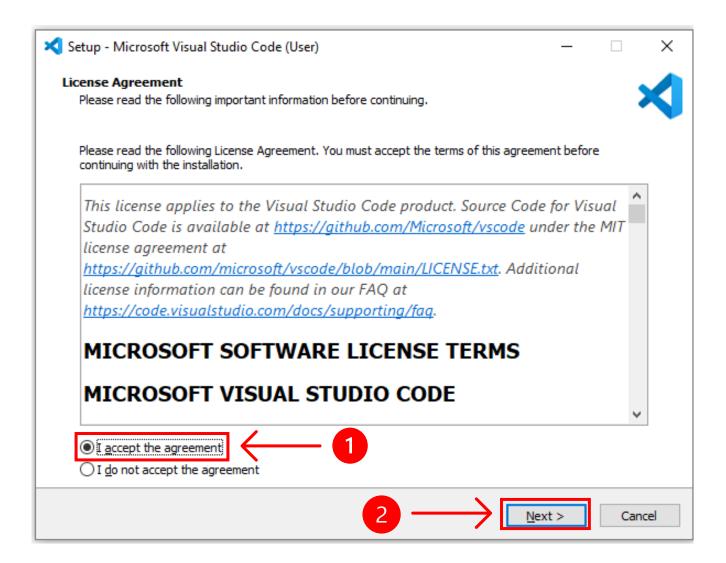
- To install visual studio code use the link https://code.visualstudio.com/Download.
- · Click on the download button to download the installer file for your operating system



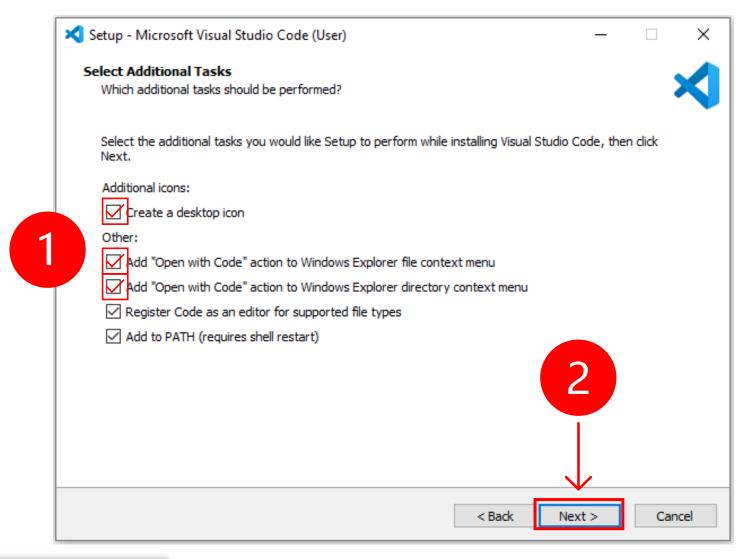




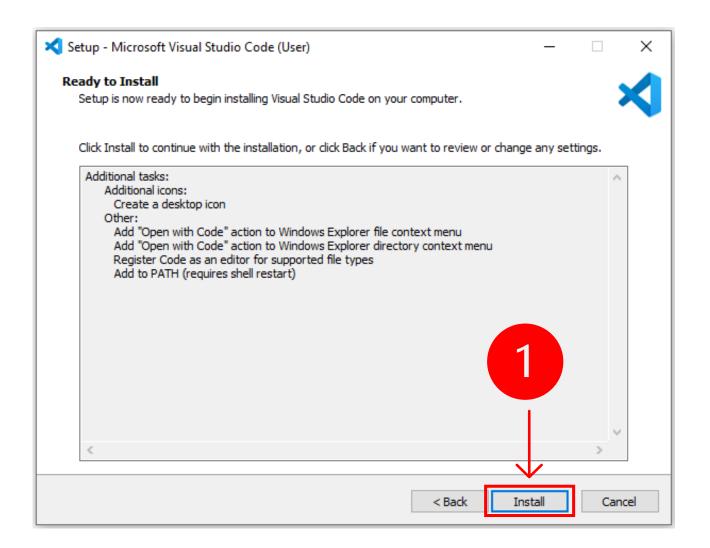
- Accept the license agreement
- Click on next



- Click on the other checkboxes
- Click on next



Click on install



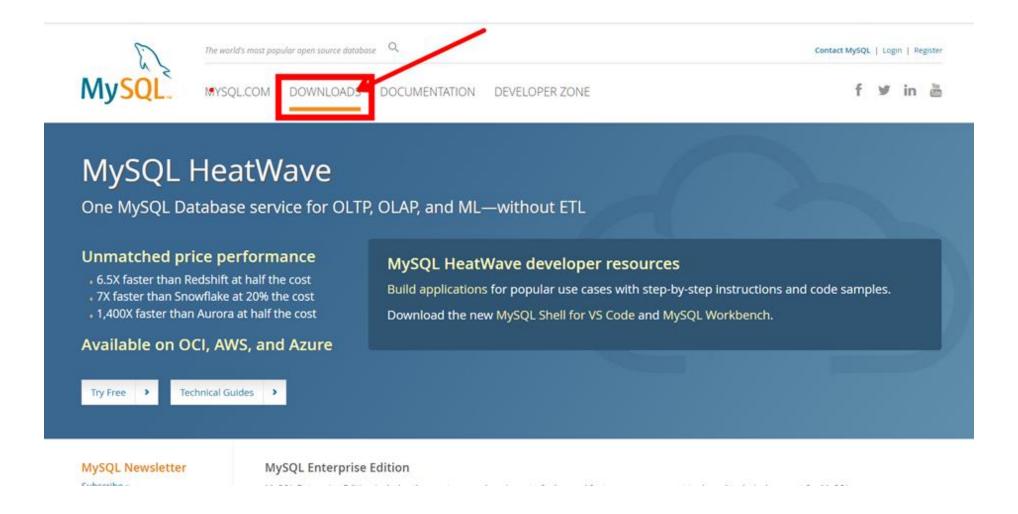
Installing MySQL

To install MySQL use the link https://www.mysql.com which is the official website of MySQL.





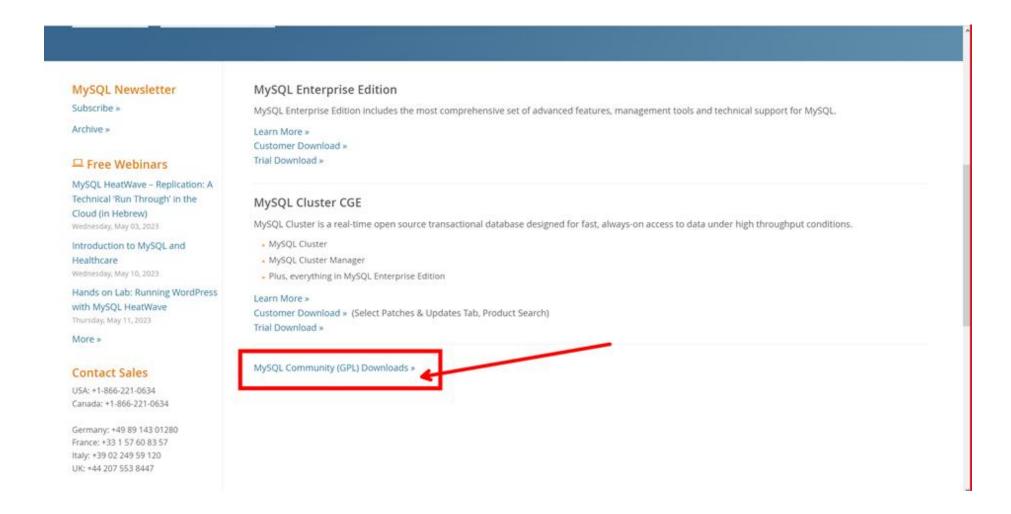
Next Click the downloads button





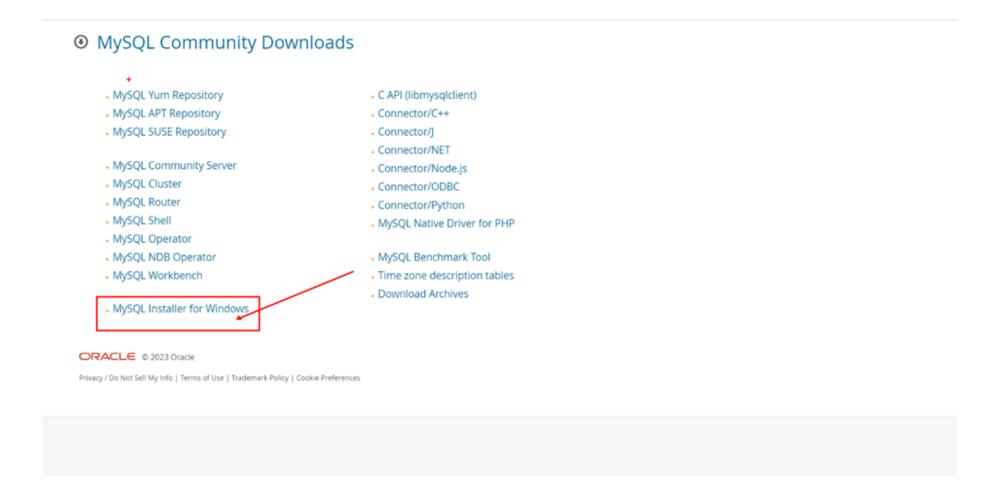


Next click on MySQL Community (GPL) Downloads

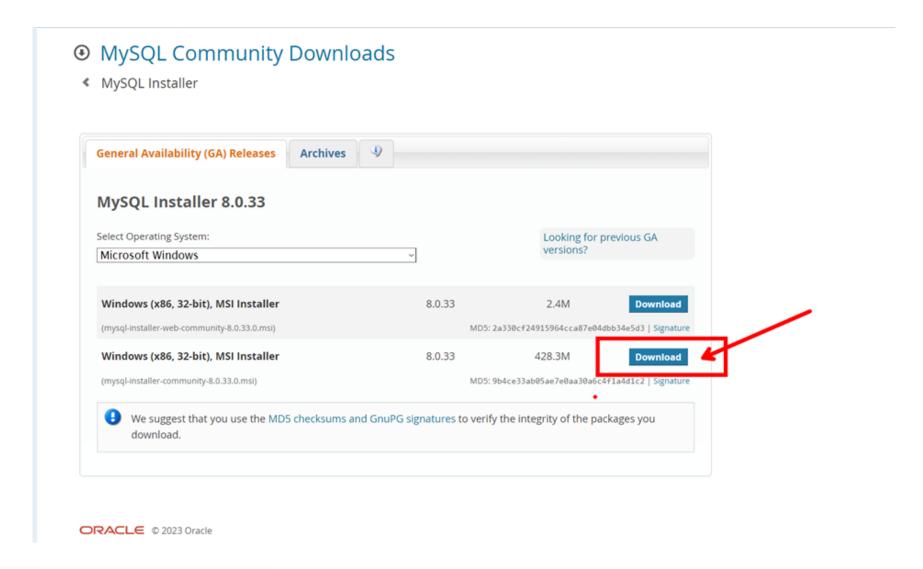




This will take you to the MySQL Community Downloads. Then select the installation for your operating system. We will be using Microsoft Windows.

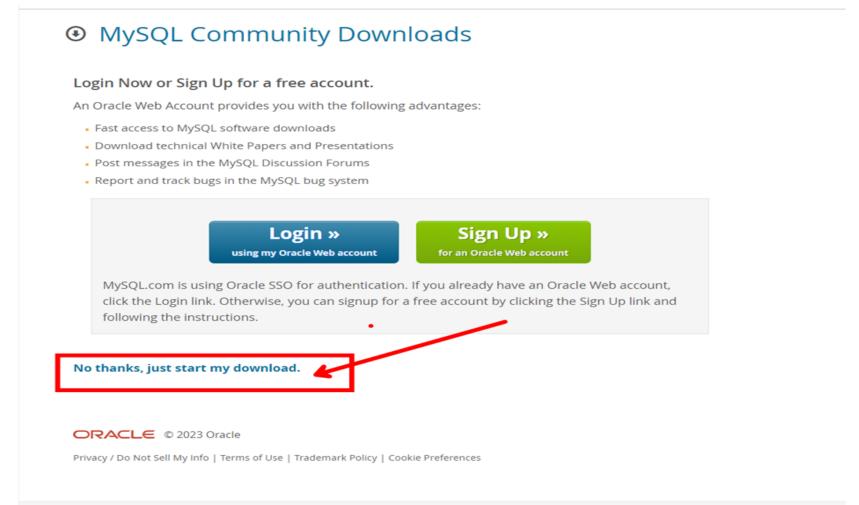


Next Click on the second download option

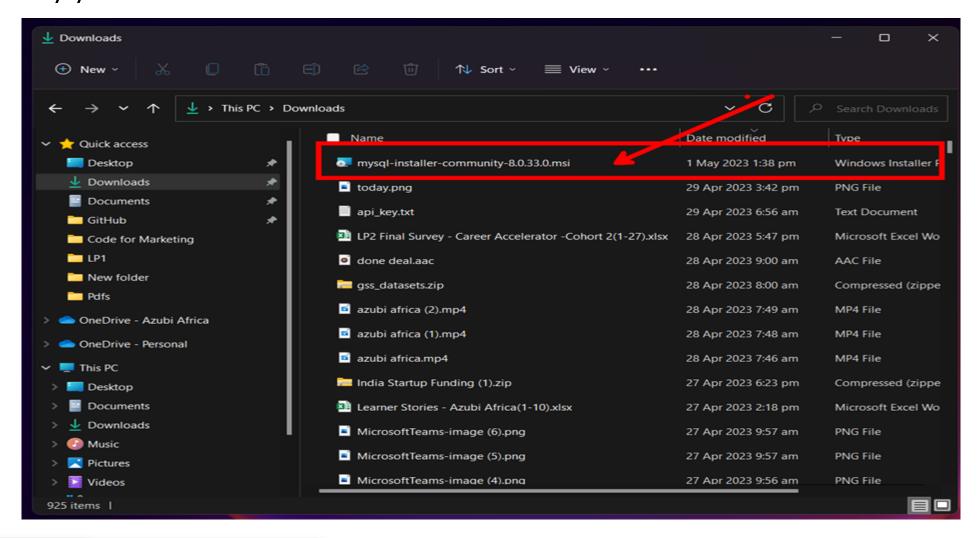




Next, click on No thanks, just start my download. This will start an download process without you having to sign in.



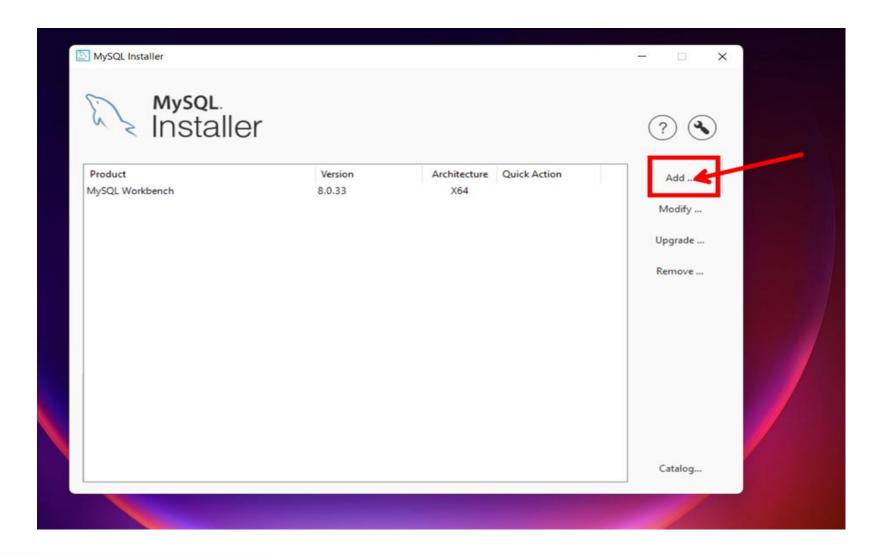
Once it is done installing, navigate to the location where it was installed. This is usually your downloads folder





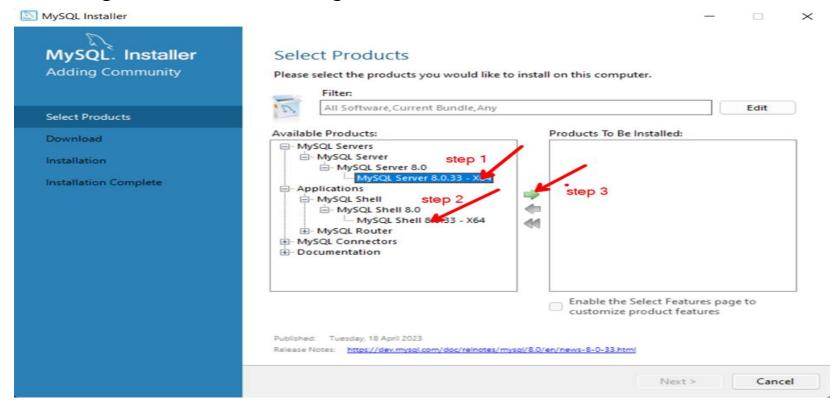


Double click it to start the installation process. Next click on the Add button.





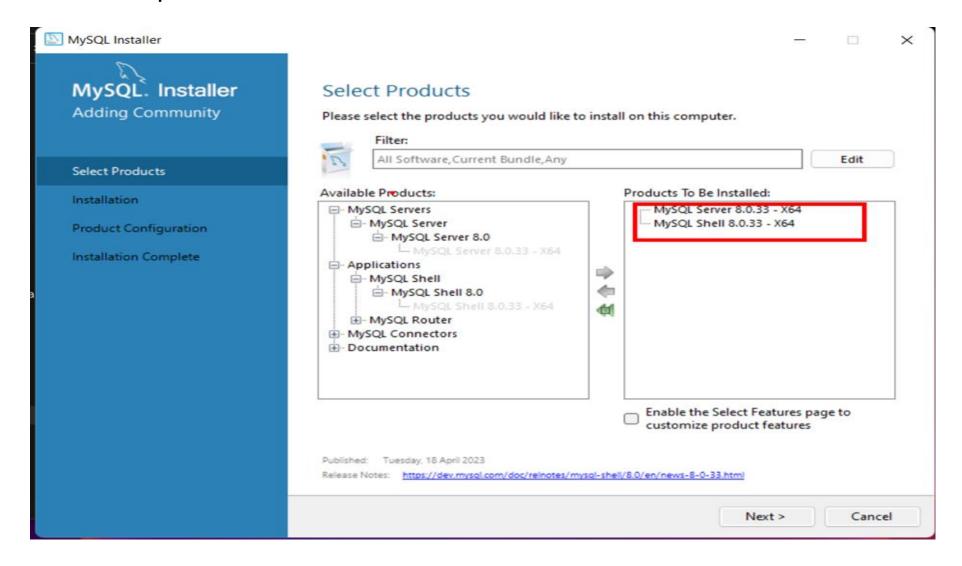
Here, our goal is to select two products namely MySQL Server 8.0.33 -X64 and the MySQL Shell 8.0.33 -X64 from the available products box to the products to be be installed box. First click little plus sign that will be in front of MySQL Servers. Click it to revel until you get to MySQL Server 8.0.33 -X64. Next, click on the green button marked as step 3 to move it into the product to be install box. Do the same thing for MySQL Shell 8.0.33 -X64. You should have something similar to the image I have below





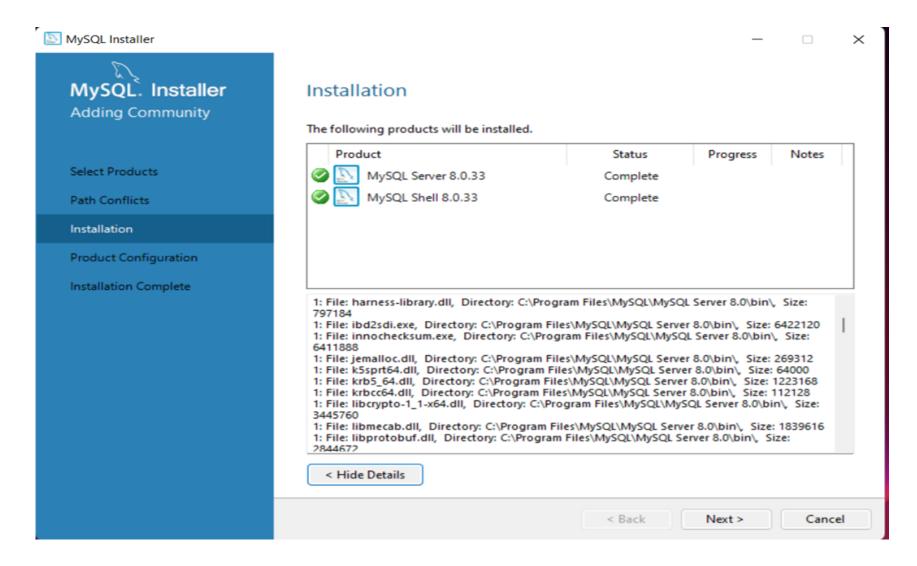


This what the products to be installed box should look like.



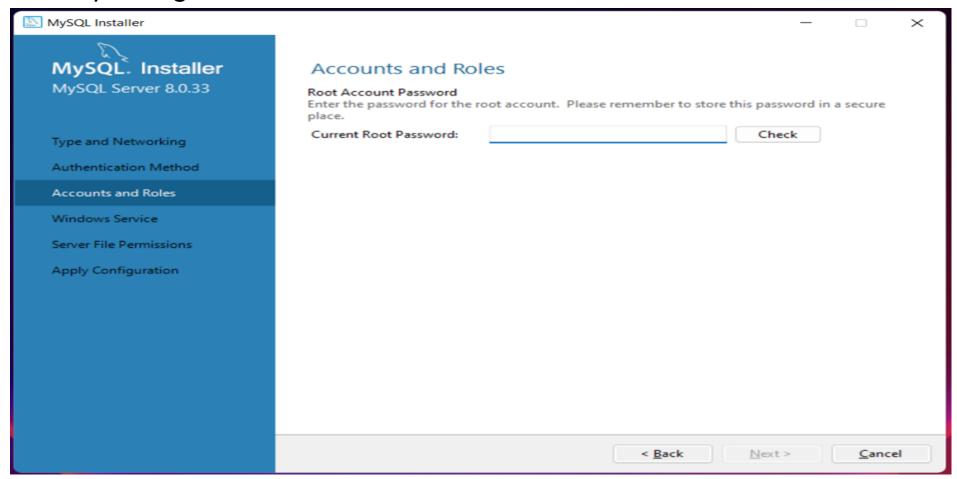


Click next to install these 2

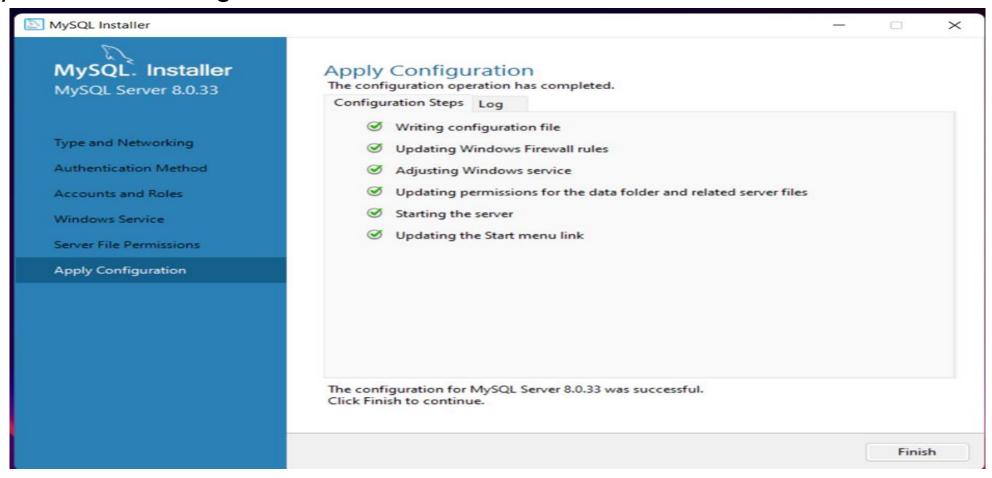




Click on Next until you get to the section requiring a password. Please enter a password you will remember as you will use this to authenticate yourself whenever you log in.



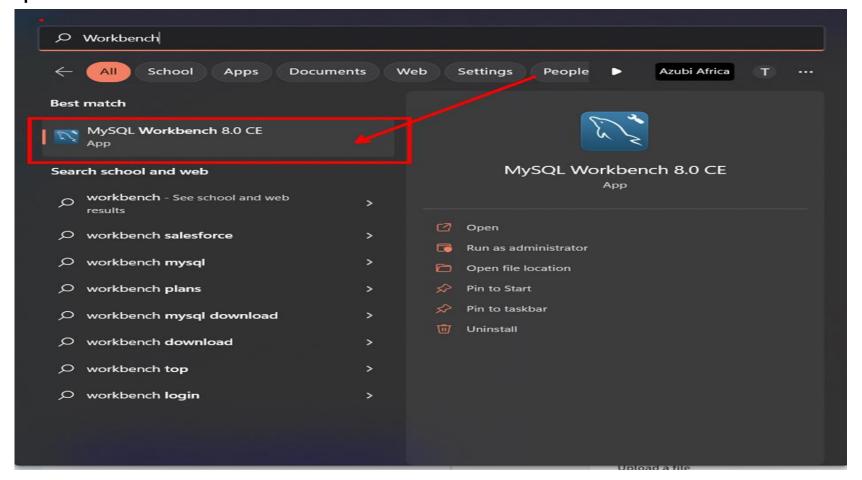
Continue clicking next or finish until you are done with the installation process. NB. There will be a finish button, that is not the final finish button. Do not panic, you are on the right course.







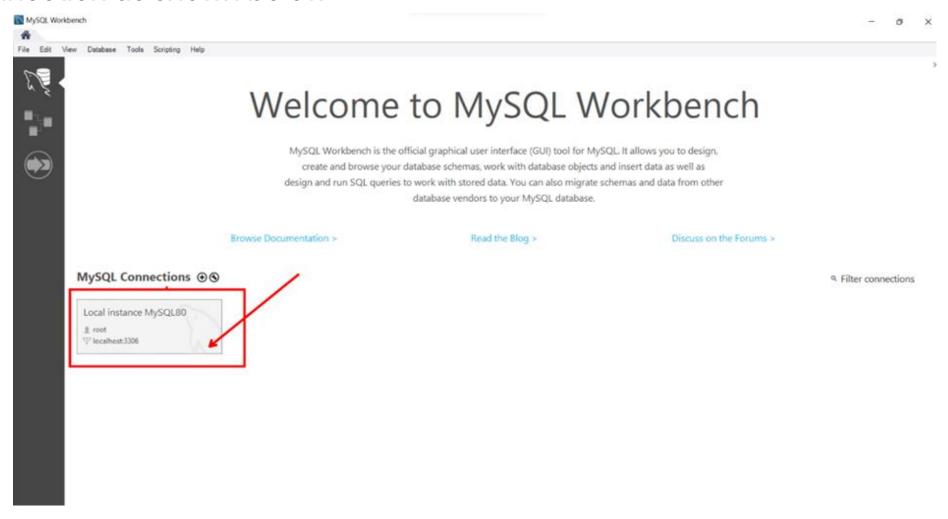
Once you are done with the installation, when you search for MySQL Workbench you should see this. Select the Workbench. This is where we are going to be writing out queries.



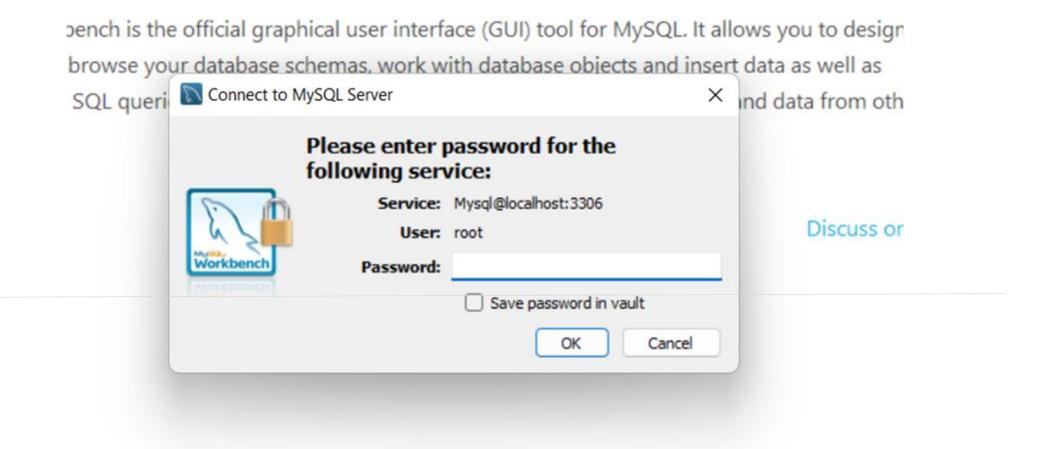




This will open up the Welcome to MySQL Workbench. Click on the MySQL connection as shown below



This will show a dialog box. Enter the password you used when installing MySQL Workbench.



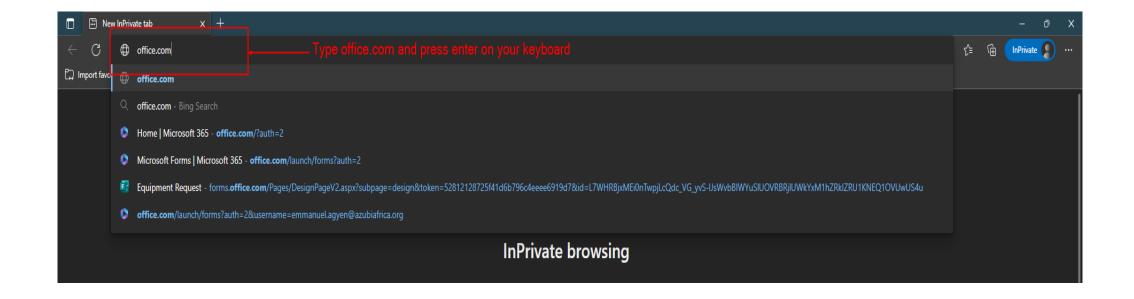




Installing Microsoft 365

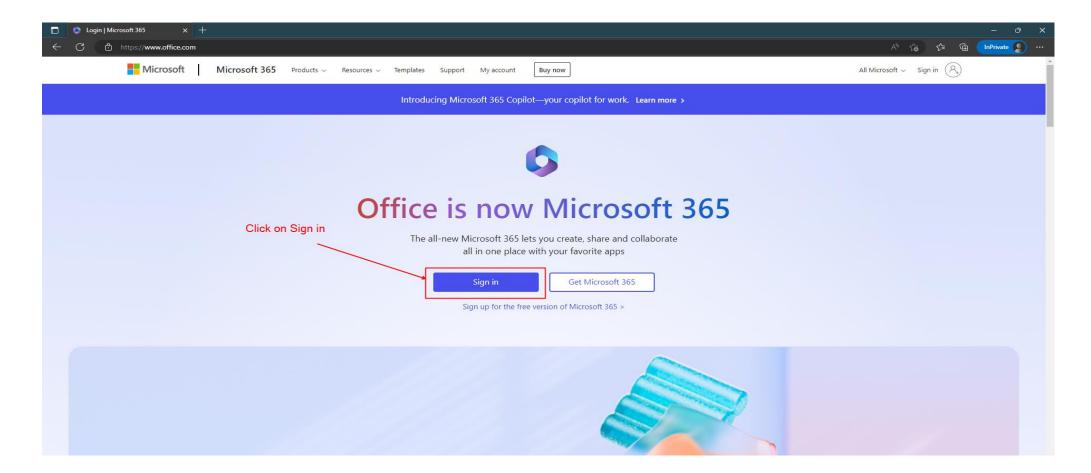


Open your web browser and type https://www.office.com and press enter on your keyboard.



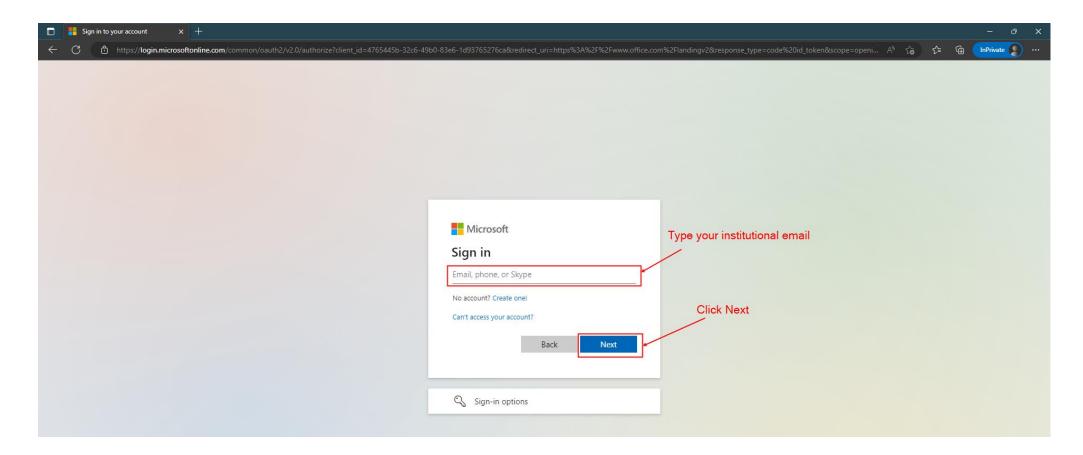


Once the page is loaded, click on Sign in.





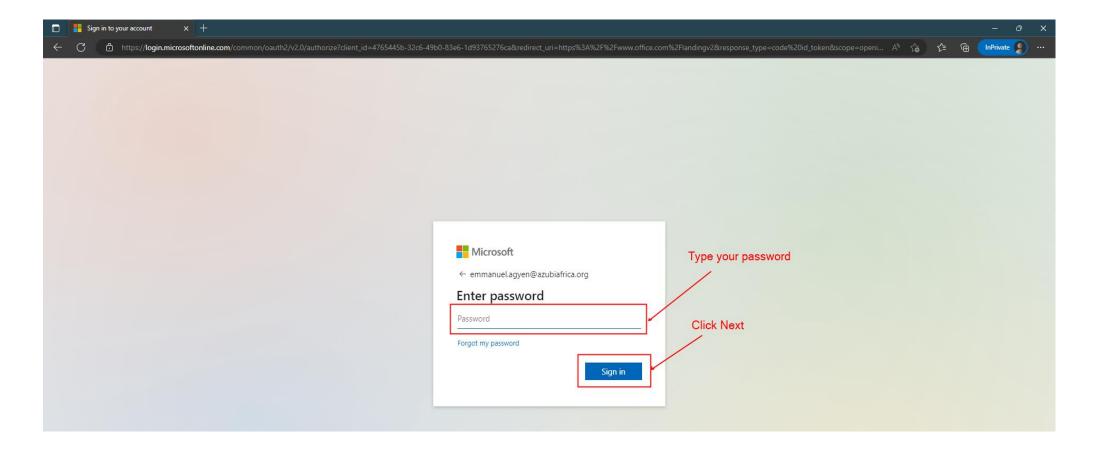
Type your institutional email and click Next.







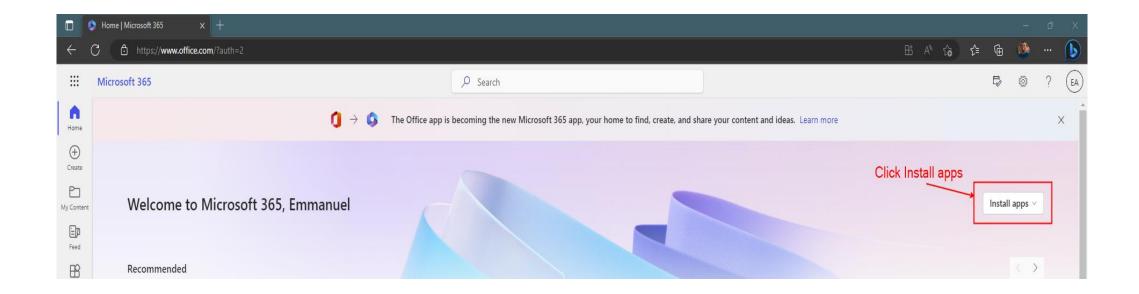
Type your password and click Next.







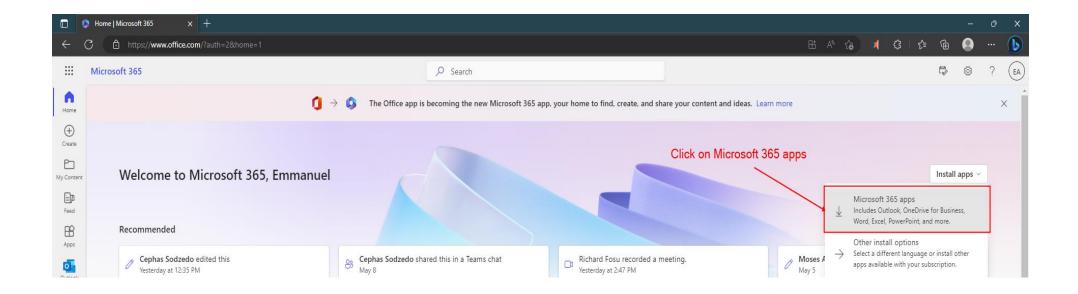
Click on Install apps





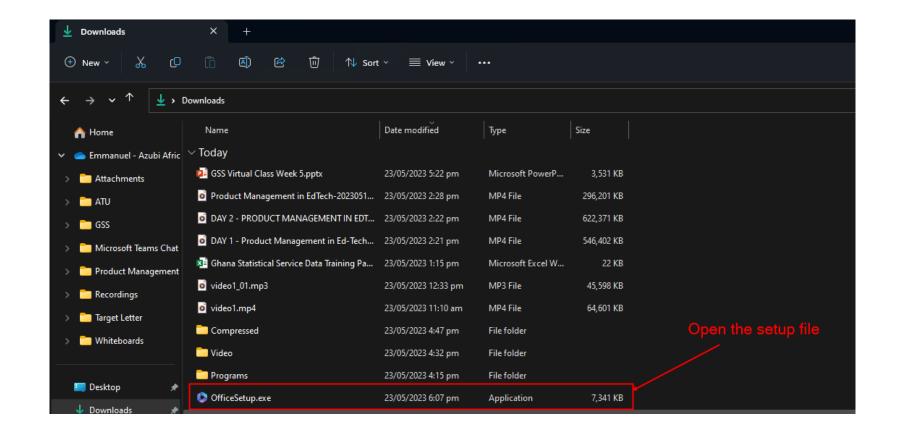


Click on Microsoft 365 apps and then the setup will download.





After the setup is downloaded, locate the setup file in your downloads and open it.







- Your Microsoft 365 installation will begin. It will take some time to install. Once it is completed, you have successfully installed Microsoft 365.
- Note that you will need internet access to install Microsoft 365.











Thank You



