

## CADDIE - MYSQL SETUP GUIDE (TO BE READ IN CONJUNCTION WITH CADDIE MYSQL USER GUIDE & GIS USER GUIDE)

### GETTING STARTED WITH CADDIE GIS

The Caddie GIS application is an additional application for Caddie Professional. In order to successfully launch the Caddie GIS application, you will need to ensure that the following are installed:

1. Microsoft pre-requisites which constitute some essential components to the windows operating system, not always found to be present in all versions of windows.
2. In order to interpret raw GIS data, the Caddie GIS application requires the installation of various opensource Geospatial software libraries. All of which can be found in the OSGeo4W download.
3. The Caddie GIS application allows you to download and hold local copies of information held as data sources. By holding the information locally, it provides access to information independent of the original source providing quick and easy access to your favorite data sources.

In order to create these easy links to your own data sources, you will need to provide the Caddie GIS application with access to a compatible database. This guide deals with the download and installation + initial configuration of the MySQL database.

### DOWNLOAD LINKS

#### Microsoft pre-requisites

<https://support.microsoft.com/en-gb/help/2977003/the-latest-supported-visual-c-downloads>

#### OSGeo4W

<https://trac.osgeo.org/osgeo4w/>

#### MySQL:

<https://dev.mysql.com/downloads/file/?id=499590>

### 1. INSTALLING PRE-REQUISITES

Download link: <https://support.microsoft.com/en-gb/help/2977003/the-latest-supported-visual-c-downloads>

Firstly, download the latest pre-requisites by clicking on the link above. Upon reaching the webpage, scroll down and download the 2015, 2017 and 2019 x64 .exe file (see below)

#### Summary

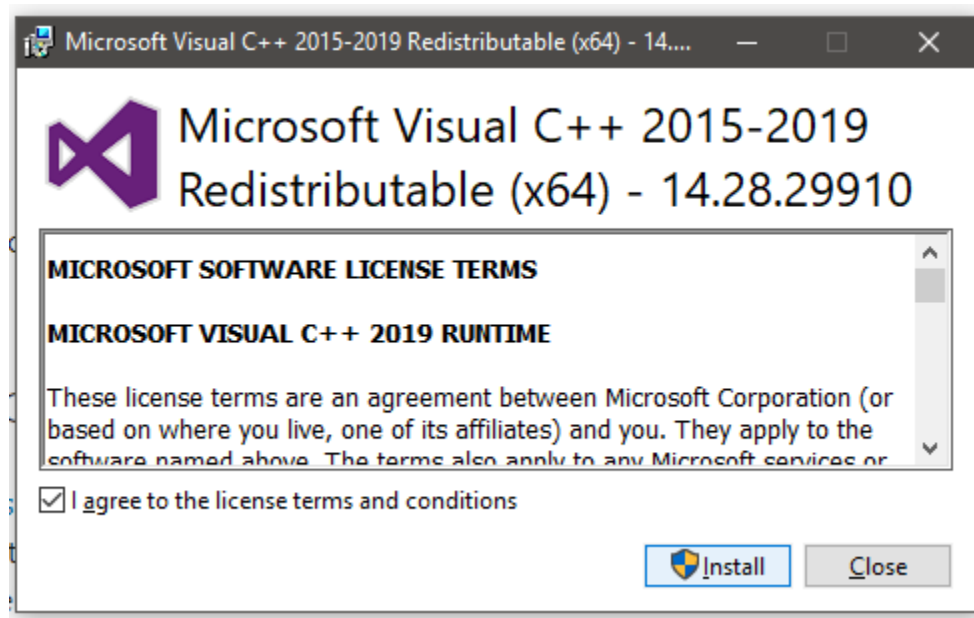
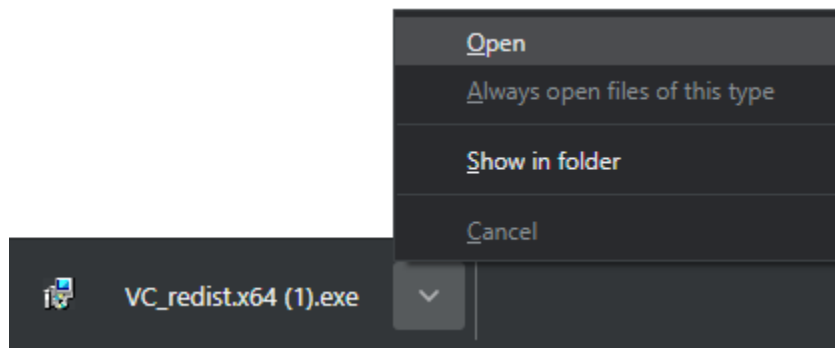
This article lists the download links for the latest versions of Microsoft Visual C++.

#### Visual Studio 2015, 2017 and 2019

Download the [Microsoft Visual C++ Redistributable for Visual Studio 2015, 2017 and 2019](#). The following updates are the latest supported Visual C++ redistributable packages for Visual Studio 2015, 2017 and 2019. Included is a baseline version of the Universal C Runtime see [MSDN](#) for details.

- x86: [vc\\_redist.x86.exe](#)
- x64: [vc\\_redist.x64.exe](#)
- ARM64: [vc\\_redist.arm64.exe](#)

Once this has downloaded, open the download and install the file.



Great, you have now installed the pre-requisites. We can now move to step 2

## 2.DOWNLOAD AND INSTALL OSGEO4W

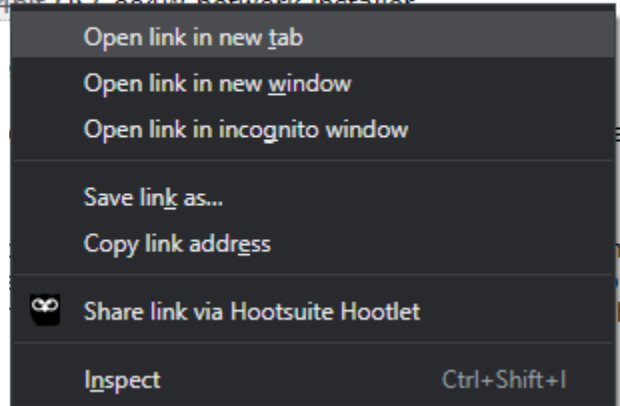
### OSGEO4W

<https://trac.osgeo.org/osgeo4w/>

Firstly, download the file. To do this, click on the download link above, if the download fails to start, right click over the 'x64bit' link and press 'open in new tab'

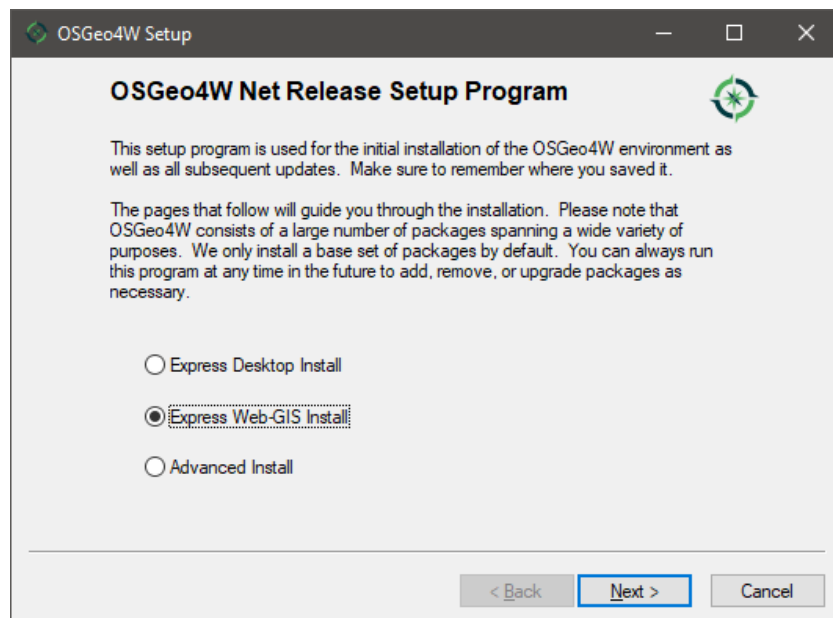
### Quick Start for OSGeo4W Users

1. Download the [32bit](#) or [64bit](#) OSGeo4W network installer

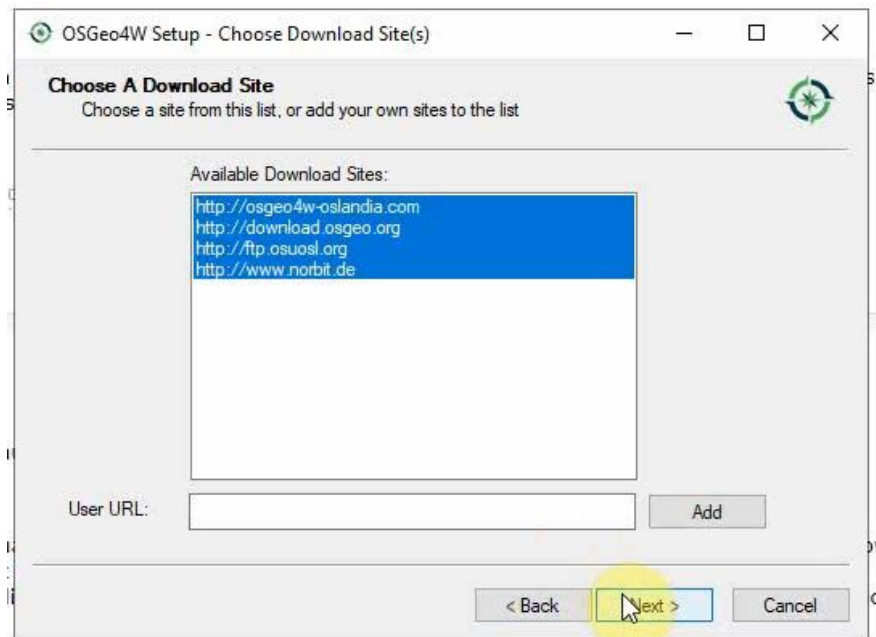


Once the file has downloaded, double click on the file or select 'run'.

At the first OSGEO4W install dialogue select "Express Web-GIS Install", and then click "Next"



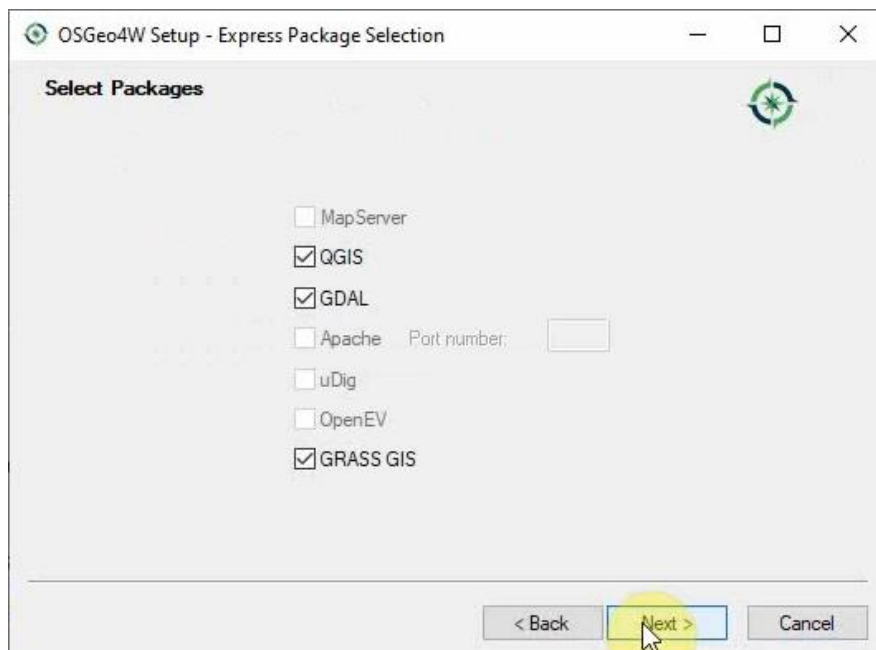
When asked to choose a download site, select a site from the list, then click "Next"



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## PACKAGE SELECTION

The packages required are these: QGIS, GDAL, GRASS GIS. Once these have been selected, press "Next"



You will then be required to accept a number of terms and conditions in order to proceed with the installation. Once these have all been accepted, the installation will continue in the background (dependant on system performance, this may take a while).

While this is installing in the background, you can move to step 3, installing MySQL.

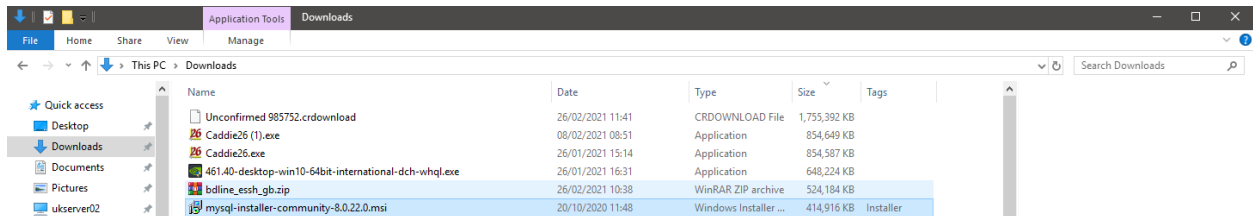
### 3. INSTALLING MYSQL

#### MySQL:

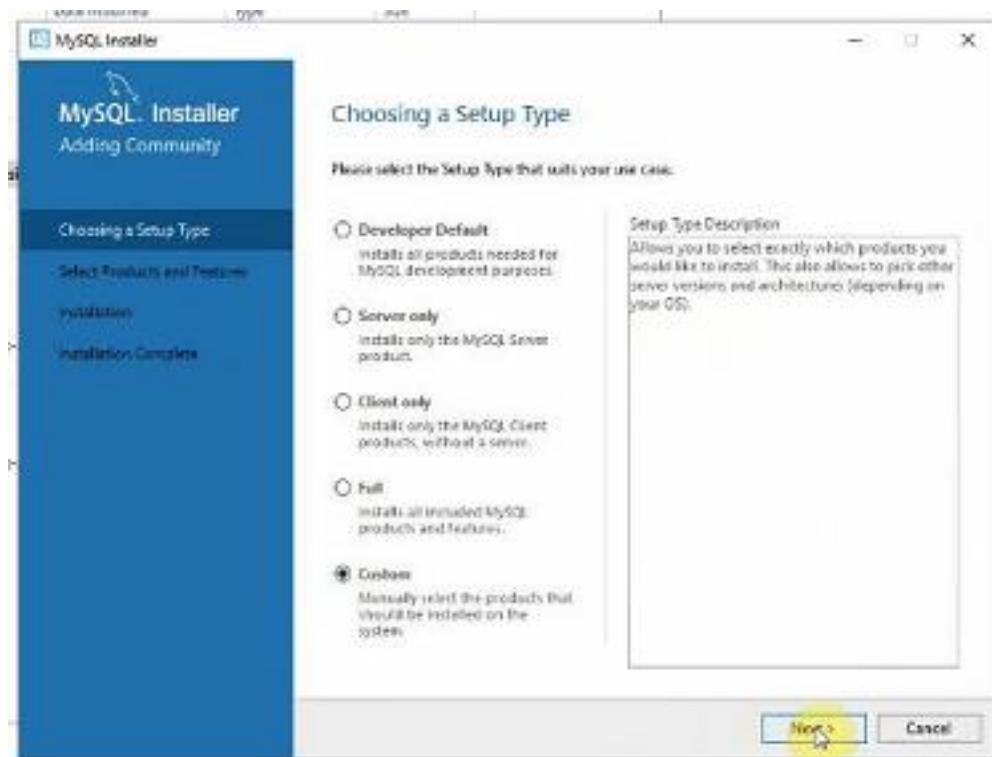
<https://dev.mysql.com/downloads/file/?id=499590>

Once the file has downloaded, double click on the file or select 'run'.

Once you have downloaded MySQL you will need to run the install file. This will most likely be in downloads.



Next you will be asked to pick a setup type, as we don't want to install everything, choose 'Custom'.



The next step is where you choose which products to install. For Caddie GIS we will need the following.

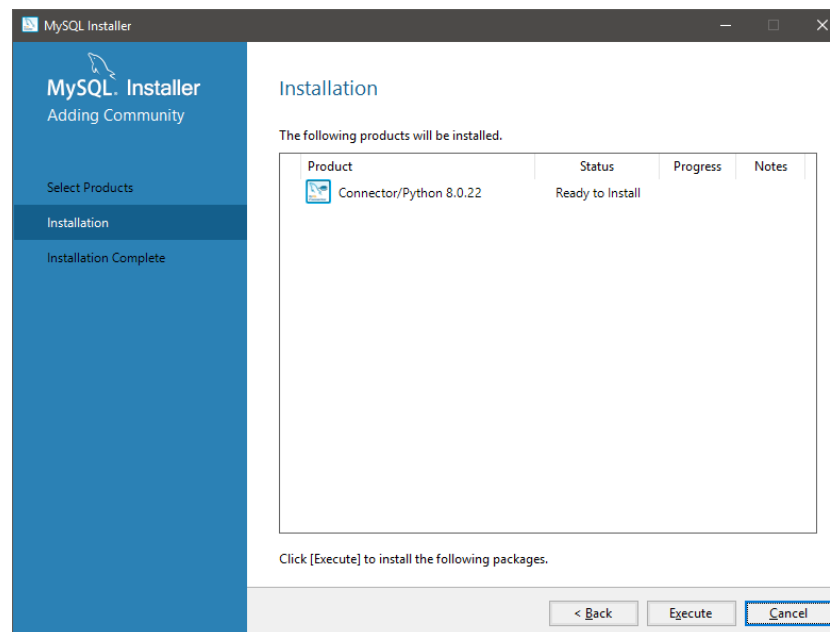
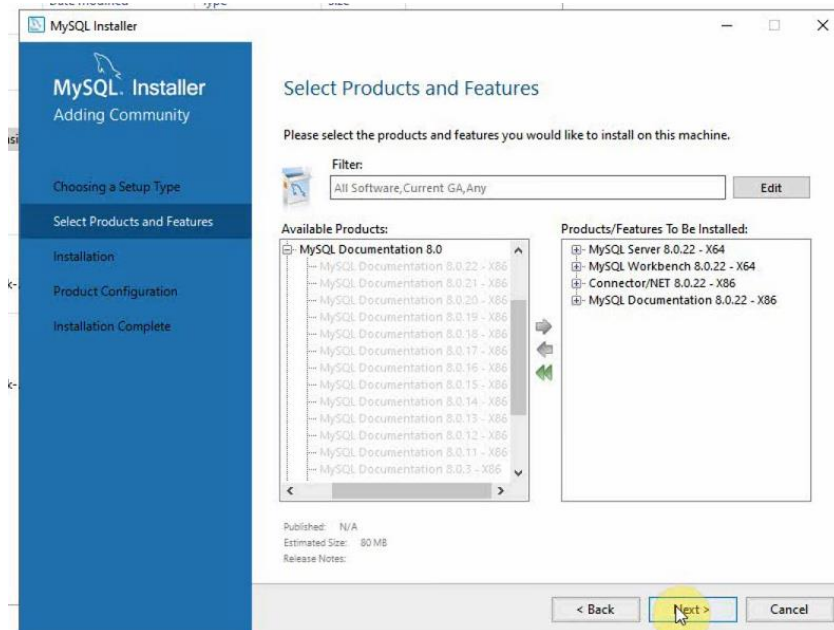
Drill down using the '+' icon to the left of the listing, then select the product/feature and then the right facing arrow to add the product to the install list. Note, the products added in error may be removed using the left arrow, or the double arrow will remove all products.

MySQL Server 8.0.22 – x64 (Found under MySQL Servers)

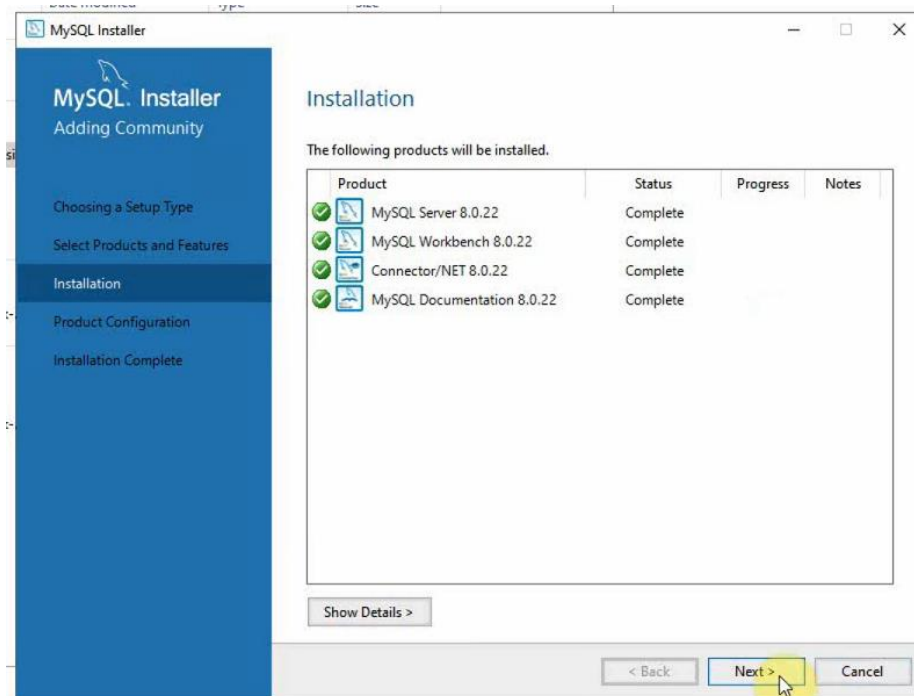
MySQL Workbench 8.0.22 – x64 (Found under Applications)

Connector/NET 8.0.22 -x86 (Found under MySQL Connectors)

MySQL Documentation 8.0.22-x86 (Found under Documentation)



Following on from picking our products, we will need to install them. Press execute until all of the products have a status of 'Complete'



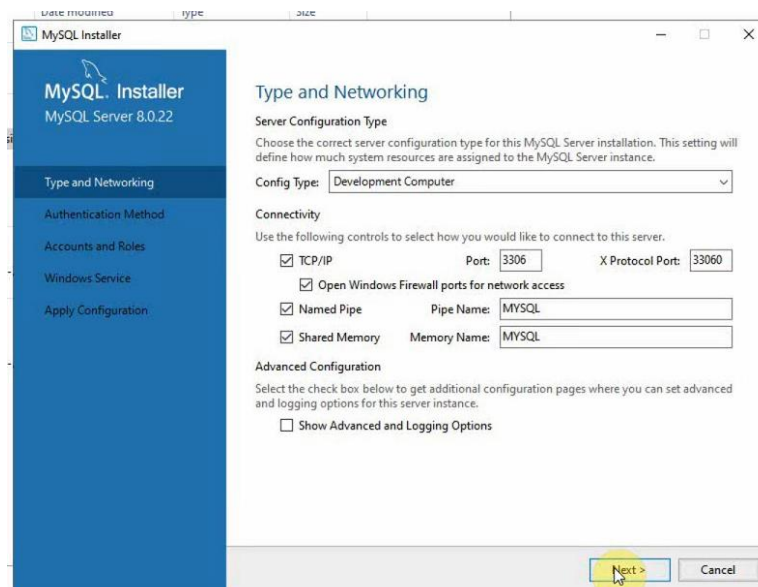
## MYSQL INSTALLER - CONFIGURING MYSQL INSTALLATION

Having selected the relevant products, we now need to configure the installation including the setting up and confirmation of user accounts and passwords.

This set of instructions will run you through the initial setup of MySQL. These steps follow on from the installation instructions previously mentioned.

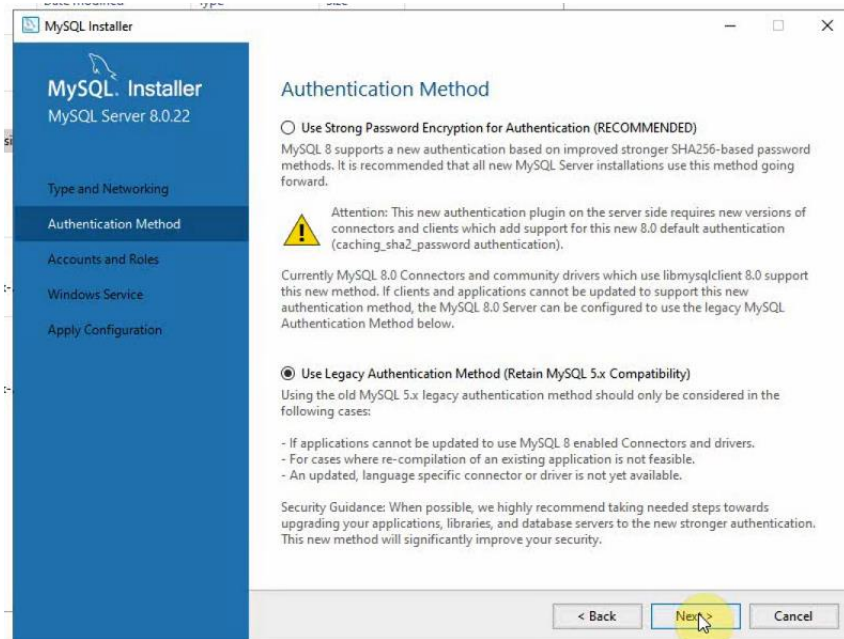
Upon completion of your product installation, press 'Next'. This will then bring up a menu showing which products are ready for configuration, in our case MySQL server 8.0.22. Press 'Next' to begin the configuration.

The first step we come to is the Type and Networking stage. For Caddie GIS, make sure you tick 'Named Pipe' and 'Shared Memory' in addition to the pre-ticked boxes (See screenshot below for further clarification)



## MYSQL INSTALLER - AUTHENTICATION METHOD

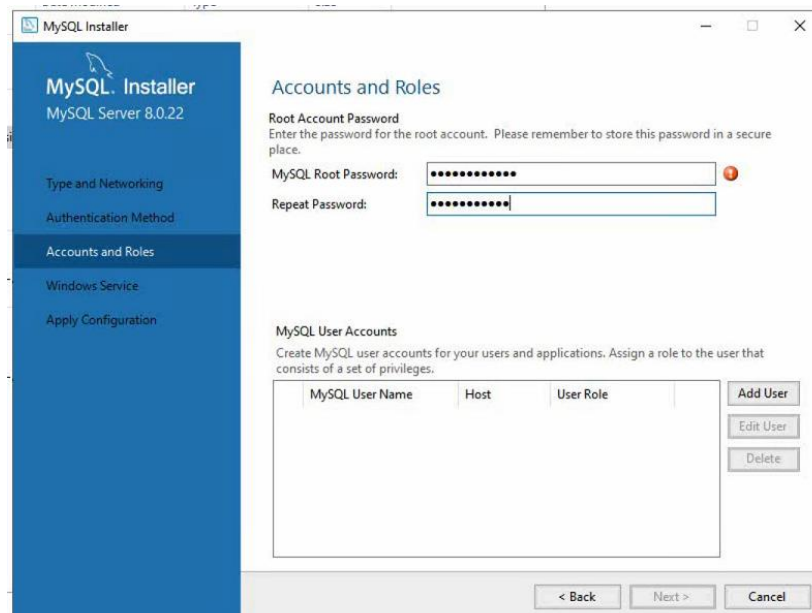
Now we move onto the Authentication stage. We will be using the Legacy authentication method for Caddie GIS, so make sure this box is ticked as opposed to 'strong password encryption'.



## MYSQL INSTALLER - ACCOUNTS/ROLES

The default account for MySQL is, 'root' for which we will need to provide and confirm a password.

The username root along with the password you provide will be required for both direct interrogation of the MySQL Database and within Caddie itself in order to access database records. The root account provides full read and write access. If it is required to provide accounts with more limited roles, you can add these by using the 'Add User' function or directly in the MySQL workbench (See MySQL User guide)

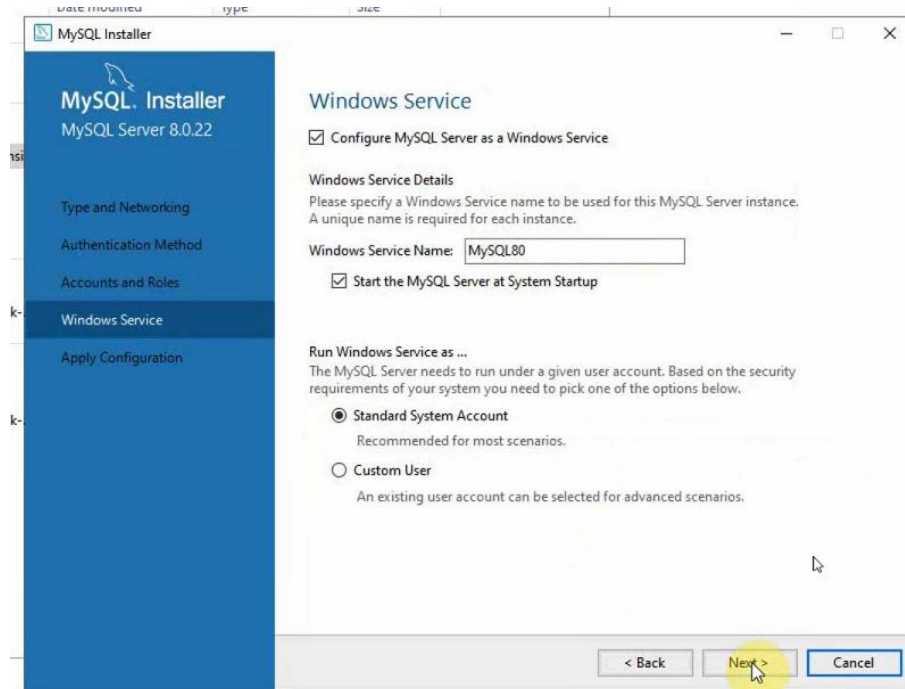


Once this has been completed, press 'Next'.



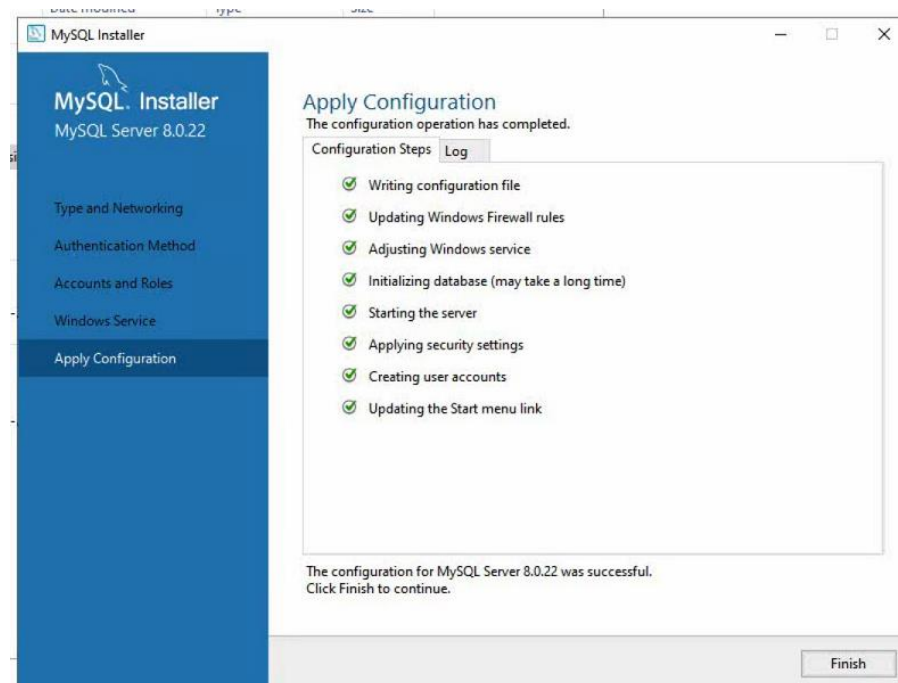
## MYSQL INSTALLER - INSTALL WINDOWS SERVICE

The next stage in the MySQL Setup is the configuration of Windows Service. Confirm MySQL as a windows service, set to run at Startup, and configured under a standard system account.



After this has been done, press 'Next'. This takes you to the apply configuration page.

Press 'Execute' and the installer will carry out installation of all the previous steps. Once each step has been completed a tick will appear next to the item.



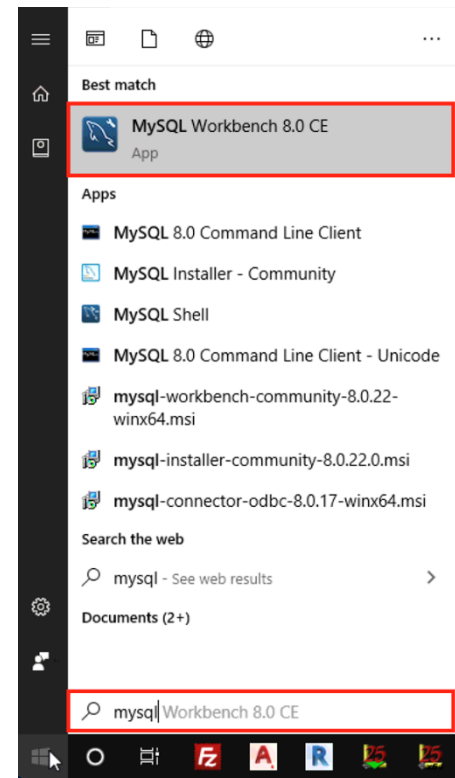
Once this is done, press 'Finish'. You will then be shown a window saying 'Configuration complete', after this simply press 'Close' and you are good to go.

Once MySQL is successfully installed, it may be accessed directly by the MySQL workbench for the purposes of creating databases, additional users, changing passwords, & updating roles.

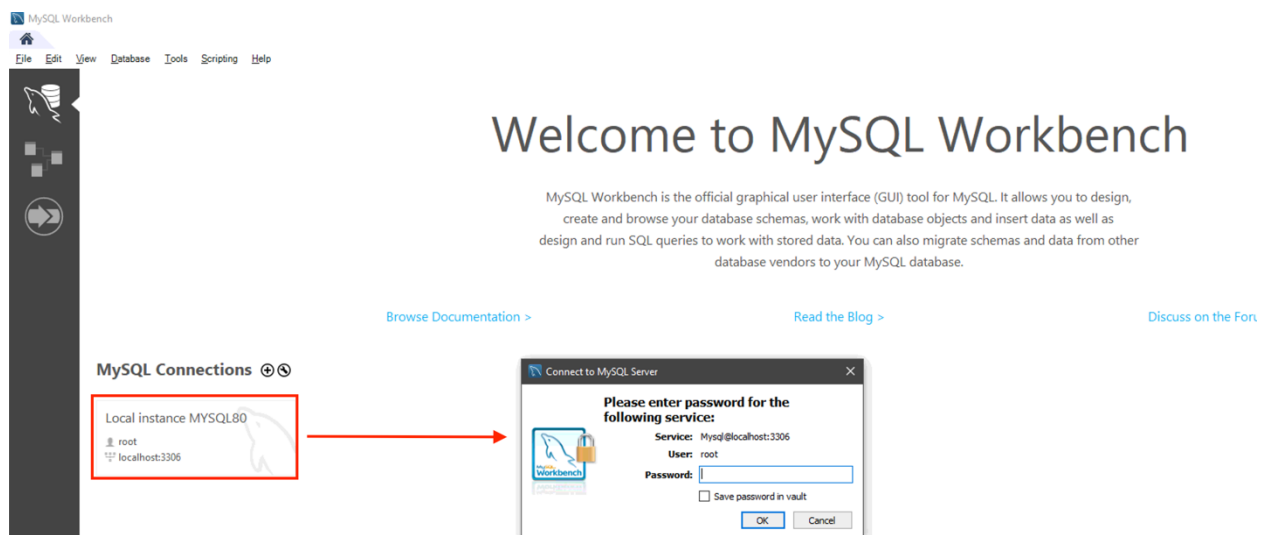
## CREATING YOUR FIRST DATABASE

MySQL provides the ability to create numerous databases which can be used to different purposes. Here we will help you create your first database to which you can add your Caddie GIS Data Sources.

To access MySQL, you will use an application called MySQL Workbench. To find this, click on the windows icon, type MySQL Workbench and select it from the list.

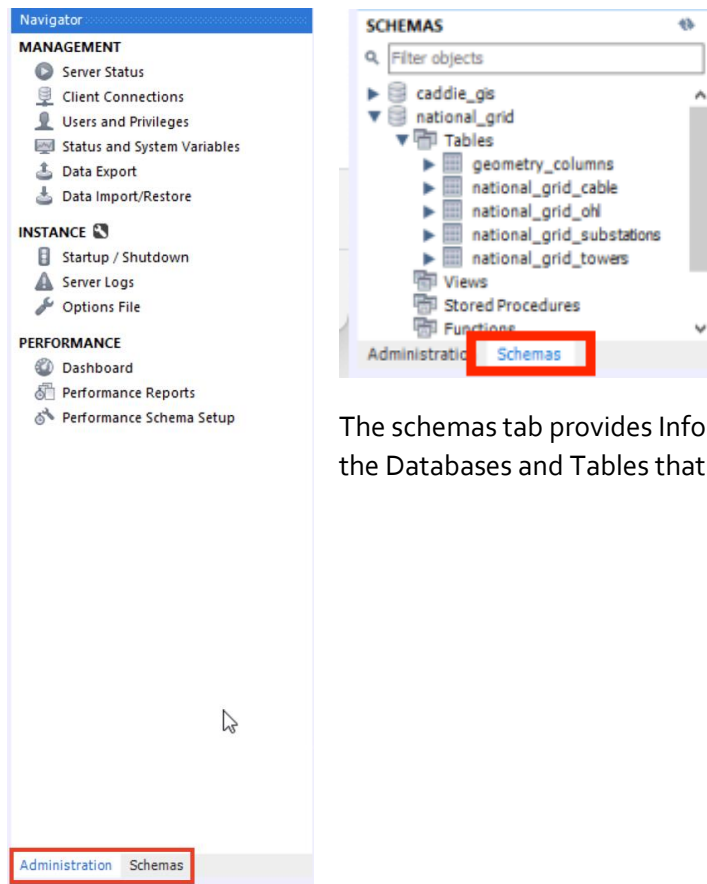


Once opened, you will need to login to your database, this password will have been setup when creating the database initially



Once you've logged into the root account, we will have access to all of the tools needed to create/manage your databases.

The Navigator pane provides access to both Administration and Schemas, this is where we will now create our database.



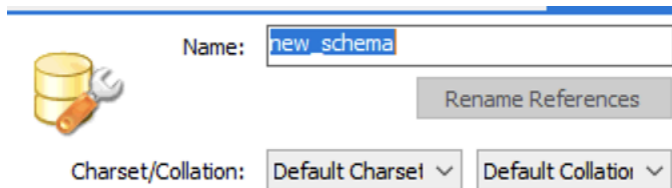
The schemas tab provides Information and tools to access information on the Databases and Tables that MySQL holds.

## CREATE A DATABASE

Having selected the Schemas tab (to enable the database created to be viewed) select the icon shown below.



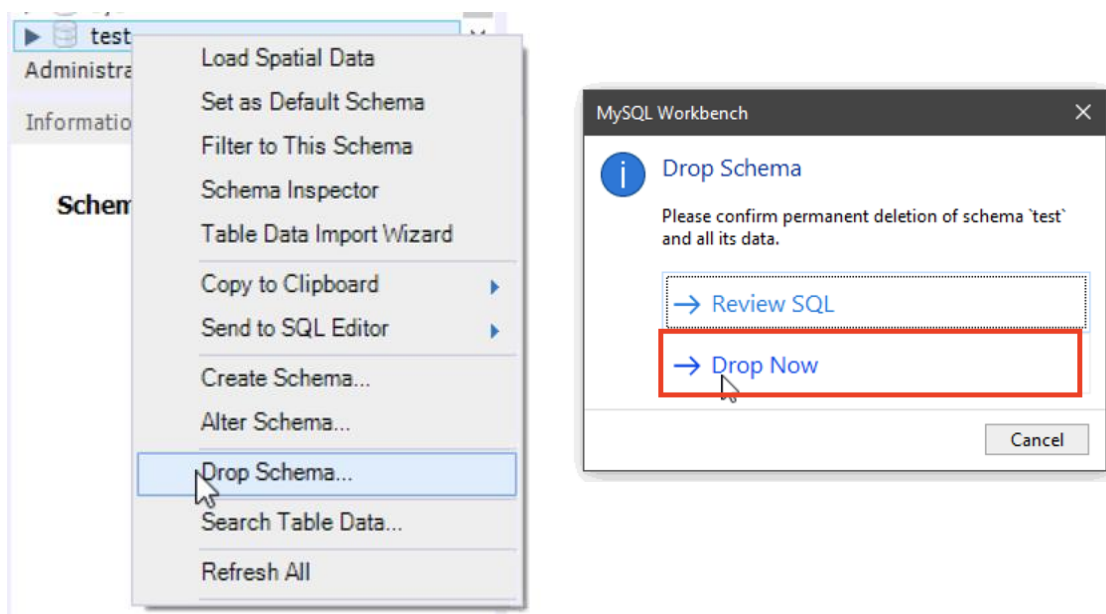
Now provide a name for your new database, note the database name should be all lowercase with no spaces.



Once you have given your database a name, press apply. Another dialogue will then appear, press apply to this too.

Finally, press 'Finish' and your database has been created.

Databases may be removed if necessary. To do this right click over the database in question and select 'Drop Schema'



Congratulations, you should now be able to access the Caddie GIS application and add data sources to your own local database.

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