Food-For-You

Installation Instructions

Linnea Gillius, Krishna Patel, Jerry Pi, Katherine Smirnov, Lauren Van Horn | 2-23-2023 | v1

1. Installation

1. Unzip the source file once it is downloaded into a folder called “Food-For-You”.
2. Open the terminal on your computer. (Powershell on Windows, Terminal on Mac.)
3. Navigate to the directory where the file is downloaded to. This is usually done by typing “cd Downloads/Food-For-You” and pressing return. If the file is in a different directory type “cd *your_directory_path*/Food-For-You” and press enter.
4. If you do not have Python 3.x installed, go to https://www.python.org/downloads/ to download and install the latest version.
5. If you do not have mysql-connector, or tkinter installed, type “pip3 install mysql.connector-python” to and press return to install mysql-connector, and type “pip3 install tk” to install tkinter.
6. Once step 5 is finished, type “python3 <interface>” in your terminal where <interface> is replaced by the file you want to execute from the options “staffUI.py,” “AdminView.py,” “RecipientUI.py,” “DonorUI.py”
    a. To see how to use these individual files, see Section 5 in the User Documentation, “Use Cases.”
7. If you need to initialize a new database for this program to connect to when the database provided is no longer running, please see Section 2 “Database Installation” in the User Documentation.

2. Database Startup

2.1 Important Note

The Food Storage Database Module for this project is created on the ix-dev server hosted by the University of Oregon, which is not administered by the project group. In rare cases, a port number change or a server crash could occur and it cannot be predicted by the project group. Please refer to our database expert, Jerry Pi, jerryp@uoregon.edu to restart the server or grant the new port number under those circumstances. Mr. Pi is guaranteed to respond within 3 business days. We appreciate your use and support of developing programs that make a difference!

2.2 Introduction

Initially, the project is connected to the *foodforyou* database on the ix-dev server when running any of the interface modules. It is also most recommended to perform applications on the provided database. However, a user is allowed to create new connections and databases on the server manually. A set of instructions derived from Professor Chris Wilson's MySql setup instructions will be provided below.

2.3 Setup Instructions

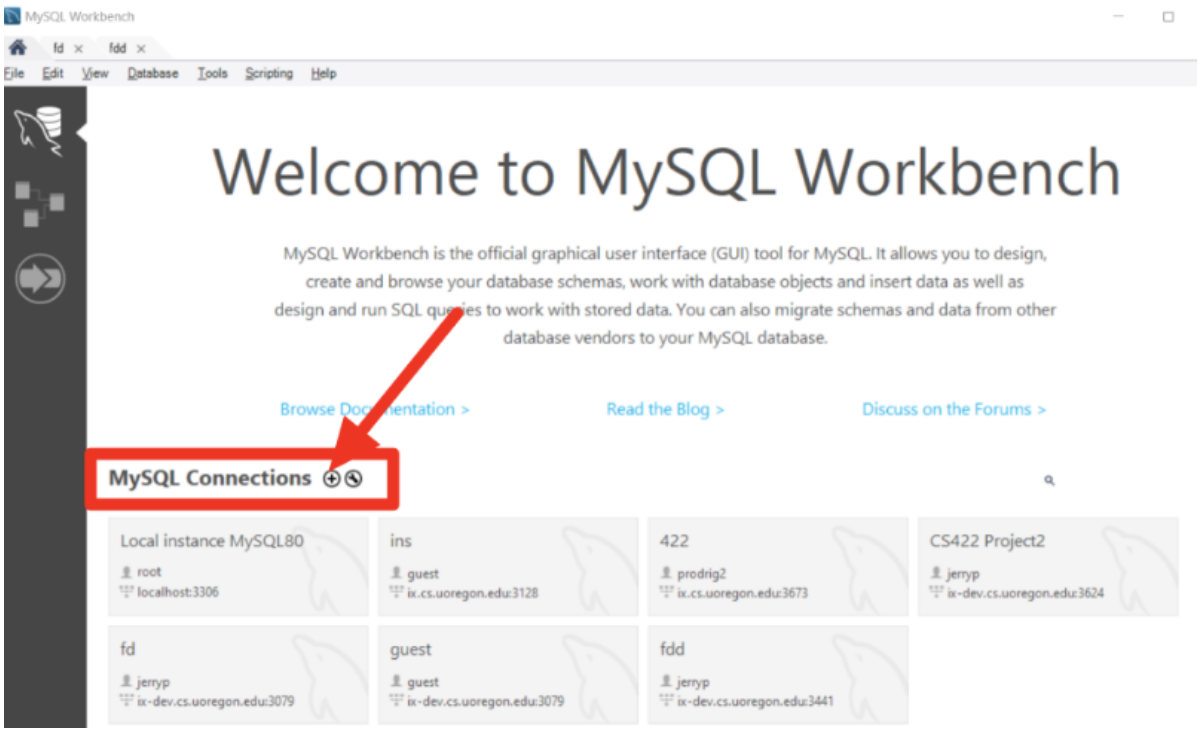
1. Log on to the department machine ix or ix-dev (modify ix to ix-dev in all instructions if you are using an ix-dev account). From a terminal that would be via

   ssh username@ix.cs.uoregon.edu

   If you do not have an ix account, you can create one by running the newuser script from the system's Account page below provided by the University of Oregon's Computer Science Department:
   https://systems.cs.uoregon.edu/wiki/index.php?n=Help.Account

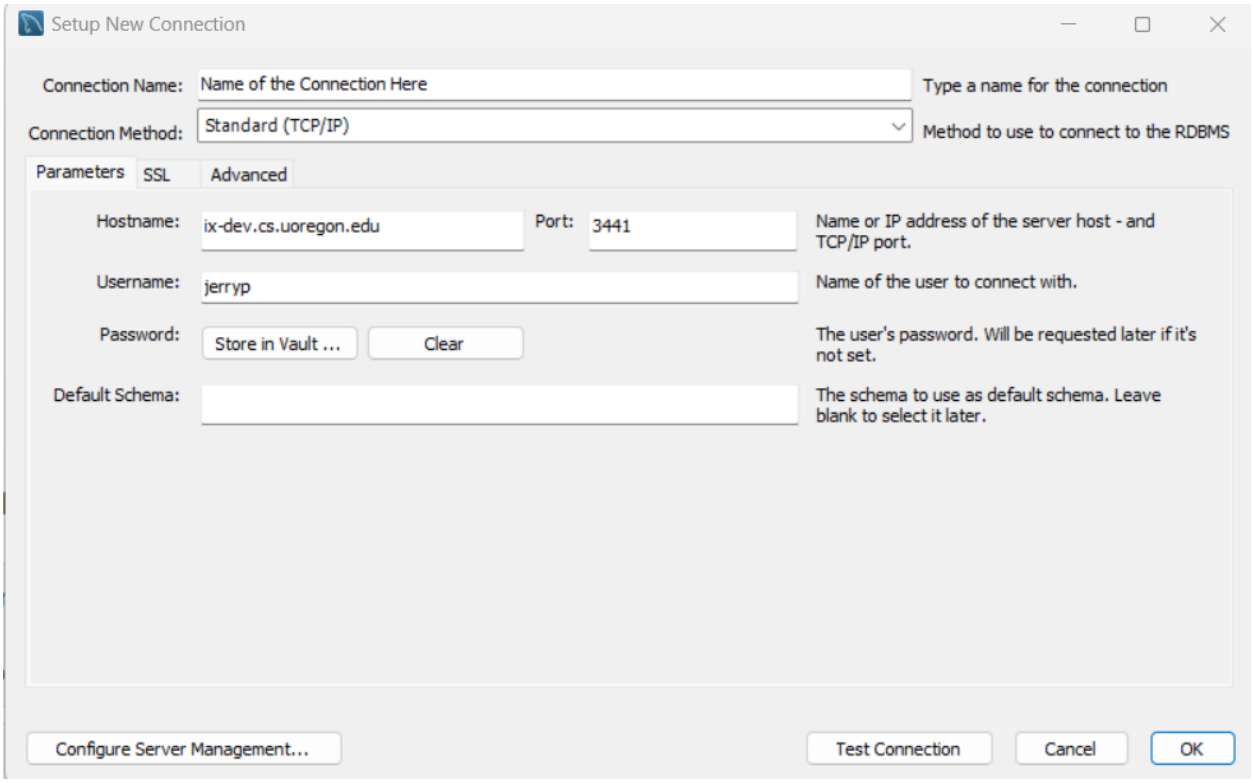
2. In your home directory, run command *mysqlctl install*
3. Choose and enter a password for MySql
4. Run mysqlctl start. This command creates the *.my.cnf* file.
5. Run mysqlctl stop to allow edit of the *.my.cnf* file.
6. Since the *.my.cnf* file is a hidden file, it can be seen via *ls -a*
7. Open the *.my.cnf* file using a text editor such as emacs or vi
8. Comment out the line that says *skip-innodb*
9. Comment out the line that says *default-storage-engine=myisam*
10. Restart MySQL using *mysqlctl start*

11. Note that your port number is in the *.my.cnf* file.
12. When you create your MySQL instance, the primary user will be *yourusername@%.ix.cs.uoregon.edu*
13. Run MySQL from the command line, via *mysql -p* (this will ask for your MySQL password from the previous step).
14. Run command *CREATE USER 'username'@'%' IDENTIFIED BY 'password';* , replace the username and password with yours.
15. Run command *GRANT ALL PRIVILEGES ON *.* TO 'username'@'%' WITH GRANT OPTION;*
16. To leave mysql, use the *exit* or *quit* command.
17. In any visual database design tool (this instruction set will use MySql Workbench as an instance), click on the '+' button next to the **MySql Connections** to add a connection.



18. In the connecting page, input a name for the connection.

19. Input **ix.cs.uoregon.edu** for the hostname field, and then input your username, port number, and password.



20. On the top left of the screen, click **File** -> **Open SQL Script** to import the database sql file that you wish to use. Click on the lightning bolt icon on the top of the screen and wait for the sql file to finish running. Once it finishes, the database values should be initialized to your values.