

Islander Cyber Society CTF (I-CTF) Installation Guide

Overview

This guide will walk you through the installation process for the Islander Cyber Society's Capture The Flag (I-CTF) training application. The I-CTF platform is designed to be modular and accessible to college students of all skill levels, providing cybersecurity challenges in a structured learning environment.

Prerequisites

- A Windows computer (only current OS code has been tested on)
- Internet connection (for setup only)
- Basic familiarity with computers

Step 1: Download the I-CTF Code

1. Navigate to <https://github.com/mtomme/ICS-CTF>
2. Click the green "Code" button and select "Download ZIP"
3. Once downloaded, extract the ZIP file to a location of your choice (e.g., Documents folder)
4. Make note of where you extracted the files as you'll need this location later

Step 2: Install Visual Studio Code

1. Go to <https://code.visualstudio.com/>
2. Download the appropriate version for your operating system
3. Run the installer and follow the on-screen instructions
4. Launch Visual Studio Code once installation is complete

Step 3: Install Python 3.12

For Windows:

1. Open the Microsoft Store
2. Search for "Python 3.12"
3. Select "Python 3.12" from the results
4. Click "Get" or "Install" to download and install Python 3.12

Step 4: Open the I-CTF Project in Visual Studio Code

1. Open Visual Studio Code
2. Click on "File" → "Open Folder"
3. Navigate to the location where you extracted the I-CTF code
4. Select the folder and click "Open"

Step 5: Install Required Dependencies

1. In Visual Studio Code, open the Terminal by clicking on "Terminal" → "New Terminal"
2. In the terminal, type the following command and press Enter:
`pip install PyQt5`
3. Wait for the installation to complete (this may take a few seconds)

Step 6: Configure Python Interpreter (if needed)

If you encounter issues with Python or pip commands, you may need to select the correct Python interpreter:

1. Press `Ctrl+Shift+P` to open the command palette
2. Type "Python: Select Interpreter" and select it from the dropdown
3. Choose the Microsoft Store Python 3.12 option (it should show the Microsoft Store version 3.12.x if you installed from there)

Step 7: Launch the Application

1. In the VS Code Explorer (left sidebar), find and open the `main.py` file
2. Click the "Run" button (triangle icon) in the top right of the editor, or right-click in the editor and select "Run Python File in Terminal" or press f5 while `main.py` is selected
3. The I-CTF application should launch with a main window

Step 8: Configure the CTF Directory

1. When the application launches for the first time, you'll see a relatively blank screen
2. Go to "File" → "Add New CTF Directory"
3. Navigate to the I-CTF folder you downloaded and extracted from GitHub
4. Select the folder and click "Open"
5. You'll be prompted to accept and refresh the application
6. After refreshing, you should see modules appear on the main menu
7. Whenever the code is relaunched it will load up blank and will require the user to refresh the page in the same way step 7 required to be ready to use

Troubleshooting

Python installation issues:

- Ensure you've installed Python 3.12 correctly and through the microsoft store

PyQt5 installation issues:

- If pip install PyQt5 fails, try: `python -m pip install PyQt5`
- If pip is not working make sure that the microsoft python version is selected as your interpreter first before trying again

Application doesn't launch:

- Try launching a second time and see if the issue persists
- Check the terminal for error messages
- Ensure all required files were downloaded correctly
- Verify you've selected the correct Python interpreter

Additional Information

- To reset your progress: Go to the "Edit" tab and select "Reset Progress"
- To check progress and accuracy: Go to the "Progress" tab

System Requirements

- Operating System: Windows 10/11
- RAM: 4GB minimum (8GB recommended)
- Disk Space: 50MB for application and dependencies
- Python 3.12 or newer

Support

If you encounter any issues during installation or while using the application, please report them at the [GitHub repository](#) or in the Islander Cyber Society Discord!

Enjoy Learning!

The Islander Cyber Society welcomes you to the world of cybersecurity training. Have fun exploring the different modules and challenges!