Program installation instructions from GitHub

Summary

1. **Operating System :**
   - This program is compatible with Windows, macOS, and Linux.

2. **Python Installed**:
   - The program requires Python version 3.6 or later to run. You can verify your Python version by typing the following command in your terminal or command prompt:

   ```
   python --version
   ```

   - If Python is not installed, download and install it from the official Python website.

3. **Package Manager pip**:
   - pip is the Python package manager used to install the necessary libraries. It comes bundled with Python, but if it is not working, update or reinstall it using:

   ```
   python -m ensurepip --upgrade
   ```

4. **Git Installed**:
   - Git is required to clone the repository from GitHub. You can check if Git is installed by running:

   ```
   git --version
   ```

   - If it is not installed, download Git from the official Git website and follow the installation instructions for your operating system.

Step 1: Clone the GitHub Repository

The first step is to retrieve the program files from the GitHub repository:

1. Open your terminal (Command Prompt on Windows, Terminal on macOS, or any terminal emulator on Linux).

2. Execute the following command to clone the repository:

    ```
    git clone https://github.com/pierreburnn/SA-05
    ```

    This will create a local copy of the repository on your machine.

3. Navigate to the folder containing the program file Programme.py by entering the command:

    ```
    cd SA-05/Présentation
    ```

Step 2: Install the Necessary Dependencies

The program requires several Python libraries to function properly. These dependencies must be installed before running the program. Follow these steps:

1. If the repository contains a requirements.txt file, run the following command to install all dependencies at once:

    ```
    pip install -r requirements.txt
    ```

2. If the requirements.txt file is missing, manually install the required libraries listed in the code:

    ```
    pip install matplotlib pandas tkinter markdown
    ```

    This command will individually install the necessary packages.

Step 3: Run the Program

Now that the dependencies are installed, you can run the program:

1. From the terminal, execute the following command:

```
python Programme.py
```

2. This will launch a graphical user interface where you can load and analyze files interactively.

If you encounter any problems during the installation or execution of the program, refer to the solutions below:

- **Python is not recognized as a command**:

    o Ensure that Python is added to your system's PATH environment variable during installation. You can modify your PATH manually if needed.

    o Otherwise try replacing "python" with "python3" in the commands.

- **Pip is not recognized as a command**:

    o Otherwise try replacing "pip" with "pip3" in the commands.

- **Error installing dependencies**:

    o Sometimes pip might be outdated. Update pip using:

    ```
    python -m pip install --upgrade pip
    ```

- **Missing or unrecognized dependencies**:

    o If a dependency fails to install, you can install it manually by running:

    ```
    pip install [dependency name]
    ```

Additional Resources

Here are some links that can help you understand the tools and technologies involved in this process:

- **Python Documentation**: Comprehensive documentation for Python programming.

- **Git Tutorial**: Detailed instructions on how to use Git effectively.

- **pip User Guide**: Information about managing Python packages.

First, after launching the software via the terminal, here is the result you should have:
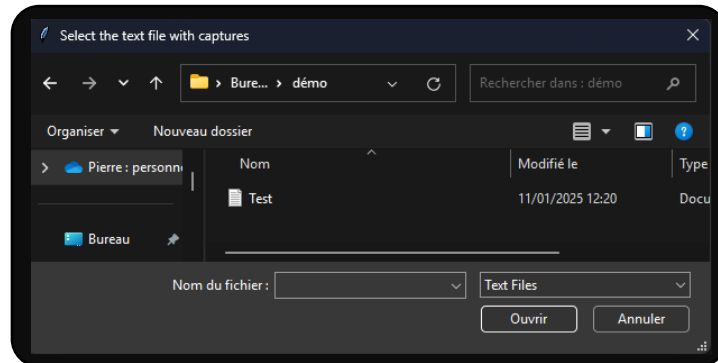
Then you need to insert your TXT file. You should obtain a result like the one below. Your values will differ depending on the file you provide to the software.
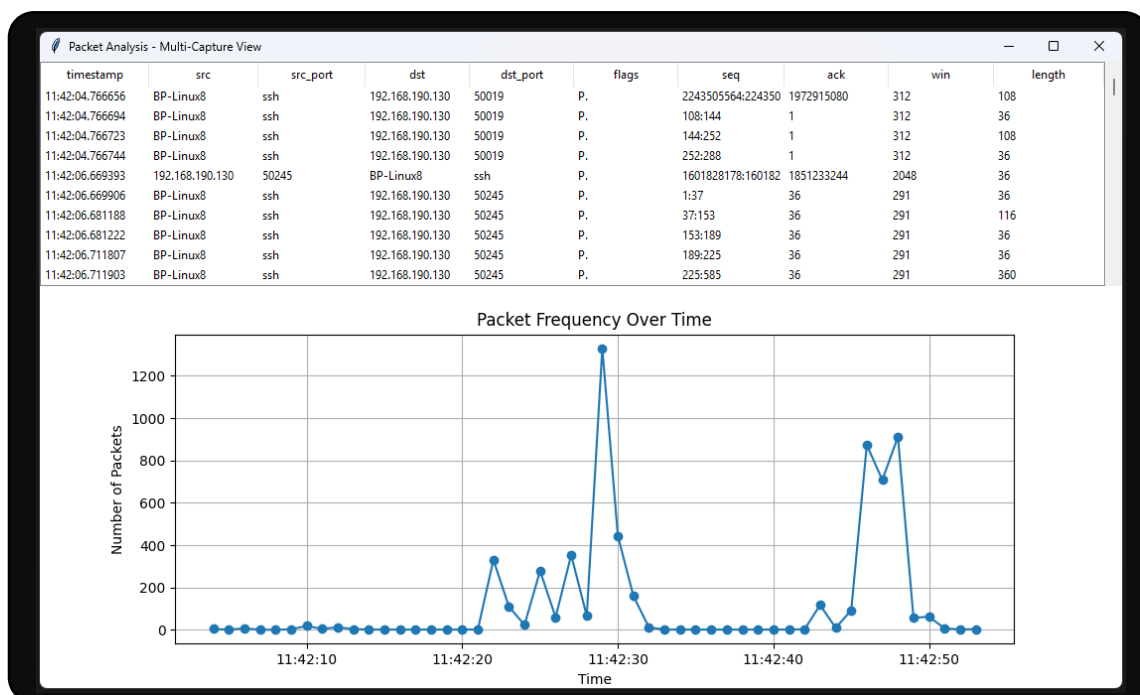
Once the software opens the previous page for you, you have 3 functionalities:
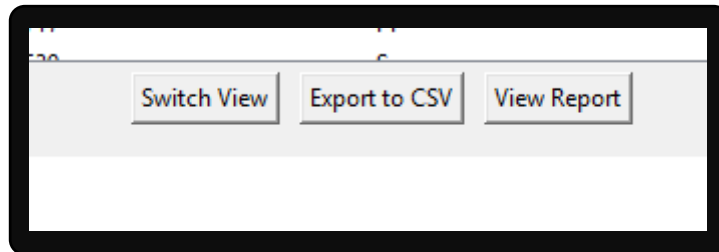
Save CSV:
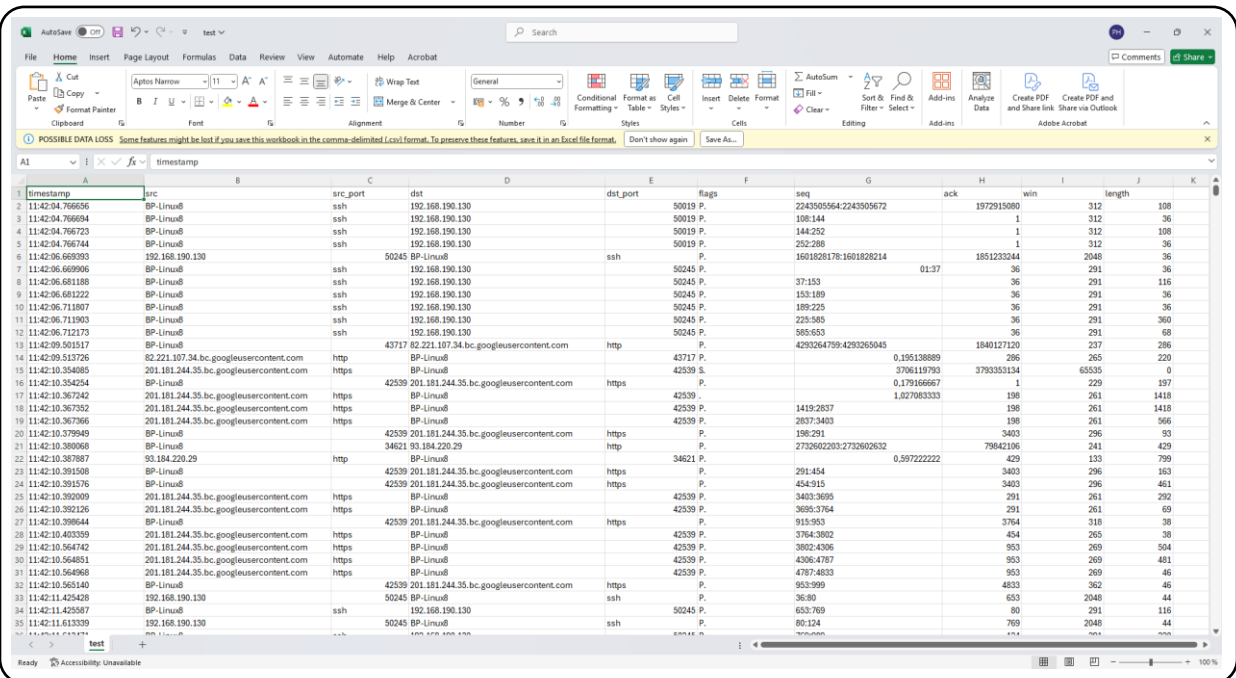
This allows you to create a table that you can open, for example, with Excel or any other spreadsheet software. A file explorer window (Windows) or Finder (Mac) will open, allowing you to choose the location where you want to save it.

Here is the message you should receive if you succeed:
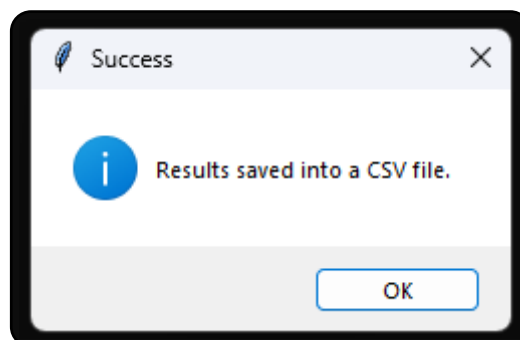
How to use it

Here is what you get when you open the CSV file in Excel:

Open in browser:

If you decide to click on the View Report* button, it will open a table in your default browser.

Here is what you should have:

* HTML file will be automatically saved to the disk of your computer.

How to use it

Switch View:

The button to Switch View allows changing the chart to view different statistics.
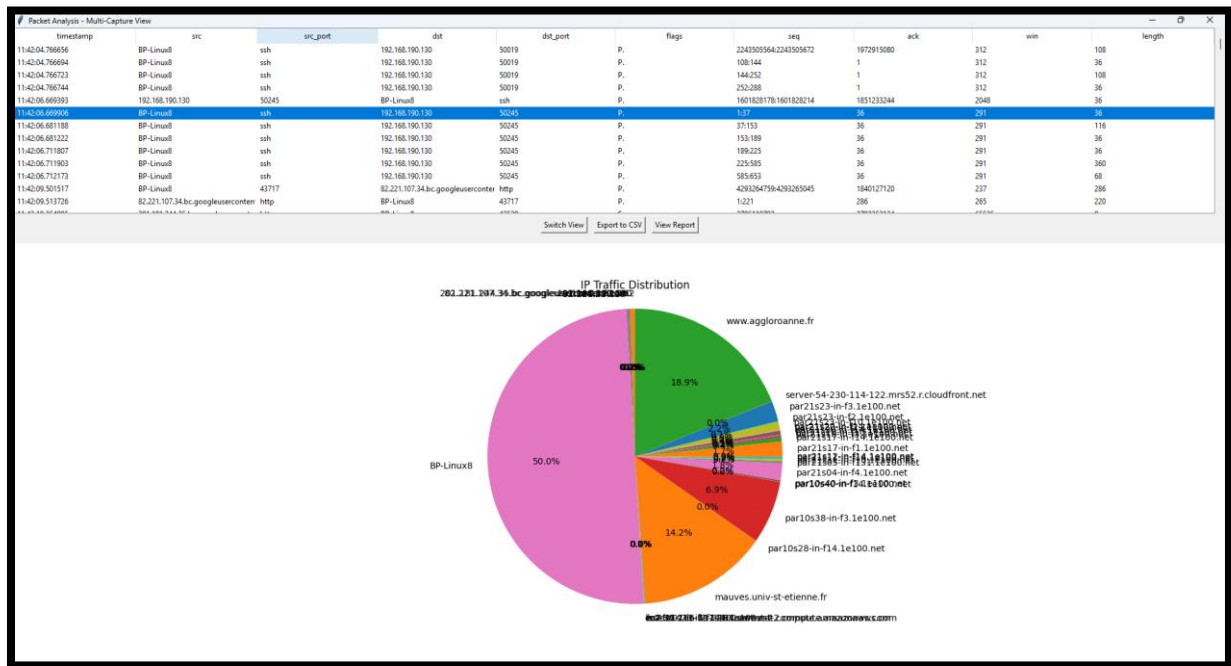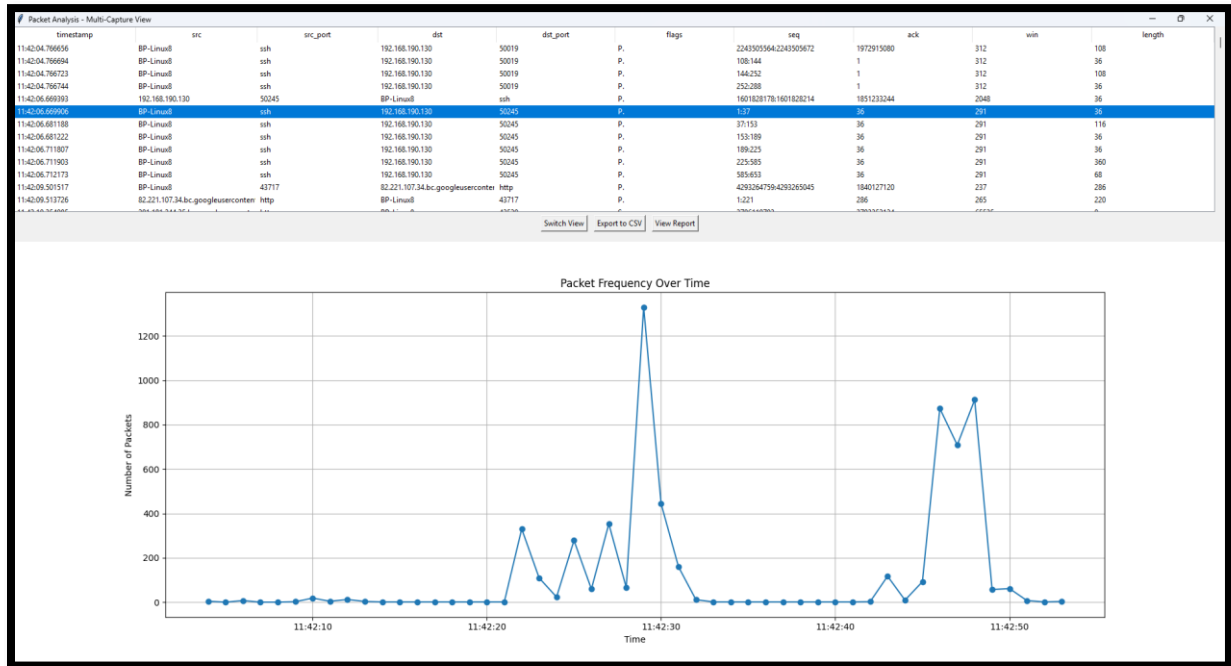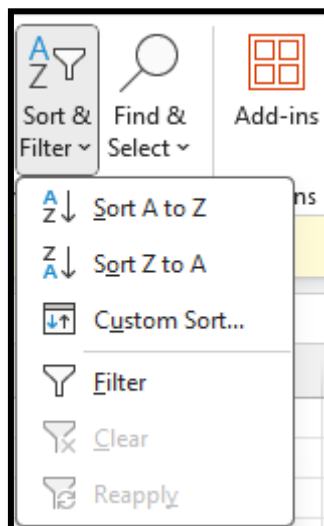
How to use Excel

Once in Excel, you can sort in different ways.

Are you looking for a specific protocol?

Go to the top in "Home."

Click on "Sort & Filter" :

Then click on Filter, and you should see arrows in column 1 :

Click on one of the arrows in column 1. If you want to search for a specific type of protocol, click on the column with the ports where you will find the protocol. Here's what you should see:
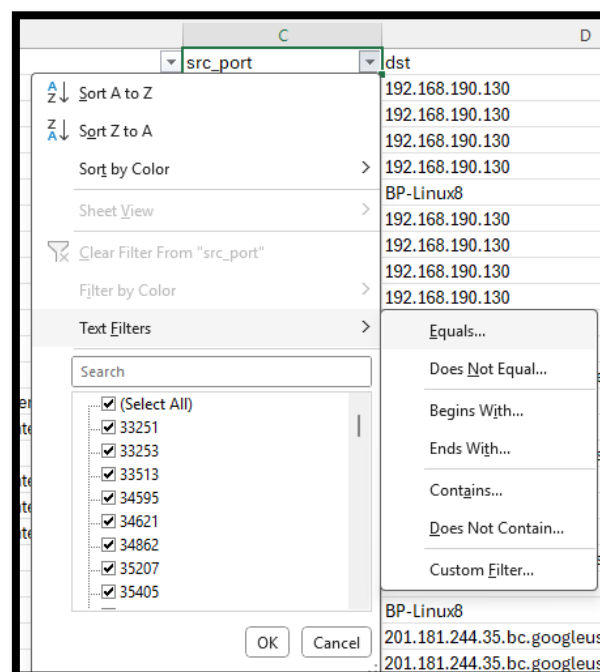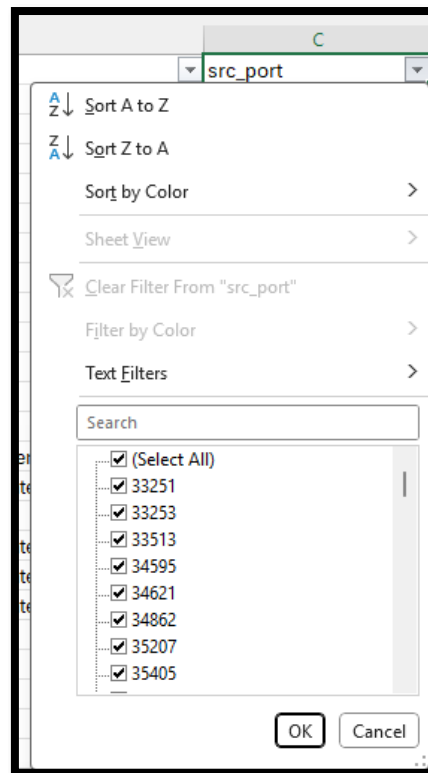
Once you have clicked on Equals:

Type "HTTP," for example, and click OK.