Team Ten

User Manual

Installation:

Navigate to the directory for the installation and install prerequisites:

- sudo apt update
- sudo apt install curl
- sudo apt install python3
- sudo apt install python3-tk
- sudo apt install python3-matplotlib
- sudo apt install python3-pandas
- sudo apt install python3-networkx
- sudo apt install -y openjdk-17-jdk
- wget https://github.com/joernio/joern/releases/download/v4.0.324/joern-install.sh
- sudo chmod +x joern-install.sh
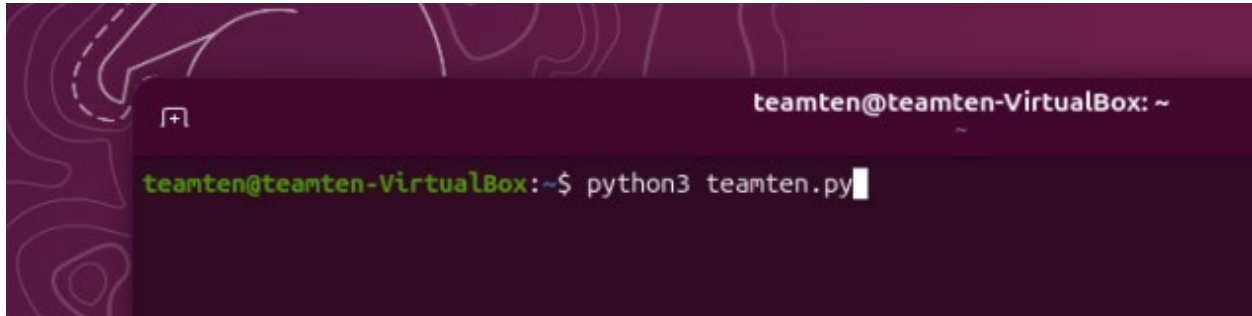- sudo ./joern-install.sh –interactive=false
- Extract joern-cli.zip

Now install the vulnerability scanner by downloading the repository zip from github and extracting the zip:

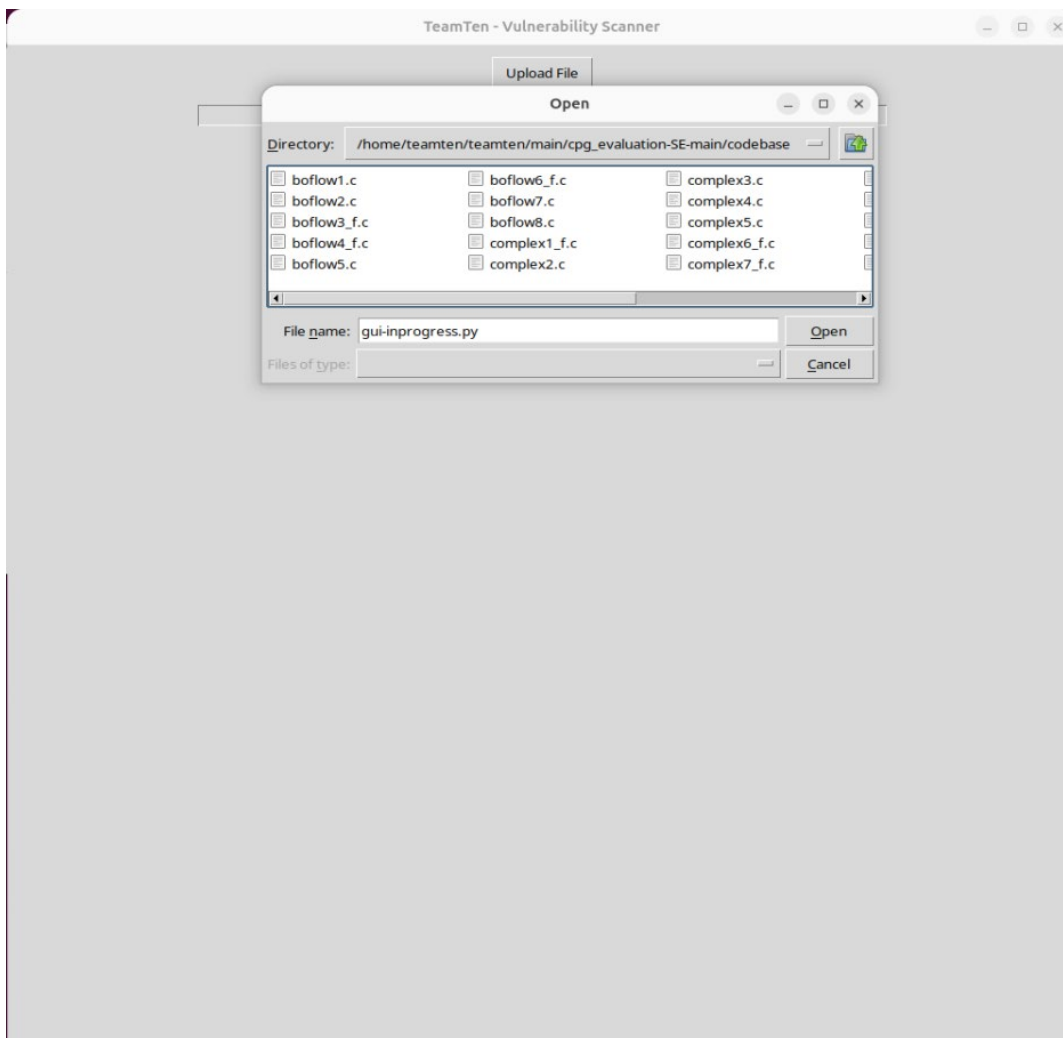- wget https://github.com/AndCplusplus/cpg_evaluation-SE/archive/main.zip
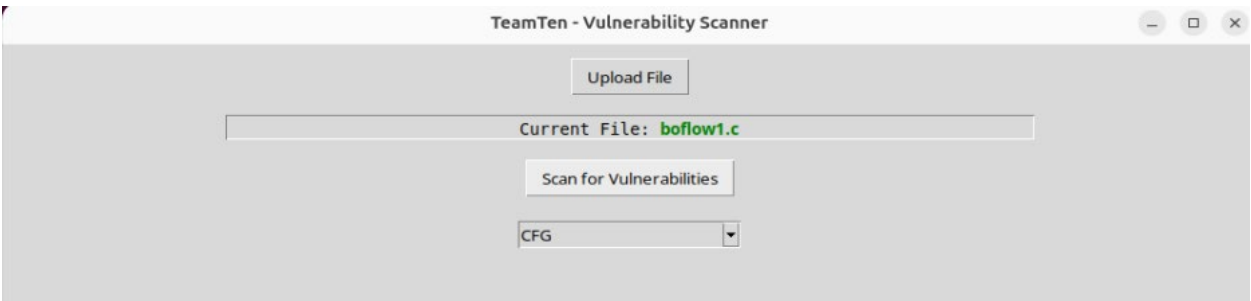
Usage:

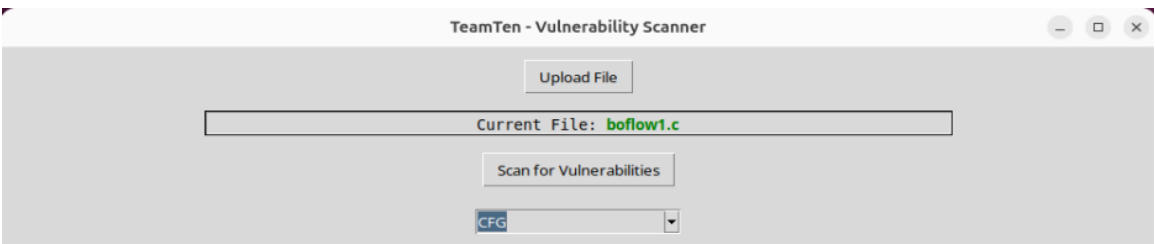In a terminal window run teamten.py:

python3 teamten.py

Once the gui opens press the "Upload File" button and select a .c file to upload:
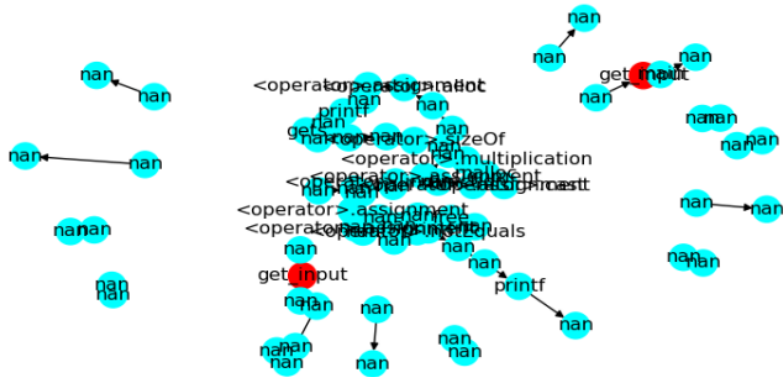
When the file is uploaded the status bar will display the current file. After your file is loaded press the "Scan for Vulnerabilities" button to begin scan.

After the file is scanned the first time a CFG graph showing the vulnerabilities is displayed and the table below the graph will show where the vulnerabilities are located along with the type and severity of the vulnerabilities.

Method	Line	Type	Severity
get_input	10	Unchecked read/recv/malloc	3.0

You can then select another type of graph to be displayed for the current file or upload a new file.

Here is a closer look at the table:

Method	Line	Type	Severity
main	24	Non-constant format string passed to p	4.0