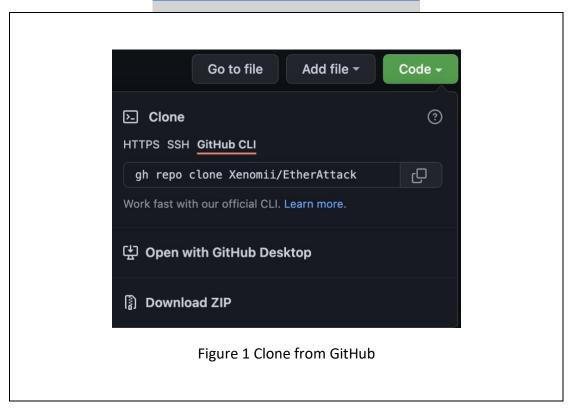
### User Manual for EtherAttack

- 1) Visit <a href="https://github.com/Xenomii/EtherAttack">https://github.com/Xenomii/EtherAttack</a> to view EtherAttack Project
- 2) Clone the EtherAttack project on GitHub through this link below:

https://github.com/Xenomii/EtherAttack



3) Open terminal and type:

\$ git clone https://github.com/Xenomii/EtherAttack

```
Last login: Sun Apr 3 15:21:23 on ttys003
[brilliantstar@Stellars-MacBook-Pro ~ % git clone https://github.com/Xenomii/Ethe]
rAttack

Figure 2 Git clone on Terminal
```

4) Press Enter to clone the project.

```
Cloning into 'EtherAttack'...
remote: Enumerating objects: 479, done.
remote: Counting objects: 100% (479/479), done.
remote: Compressing objects: 100% (334/334), done.
remote: Total 479 (delta 268), reused 325 (delta 136), pack-reused 0
Receiving objects: 100% (479/479), 29.89 MiB | 7.05 MiB/s, done.
Resolving deltas: 100% (268/268), done.

Figure 3 EtherAttack successfully cloned
```

5) Enter the path of the where EtherAttack is located

Eg: cd Path\_Of\_EtherAttack

```
| brilliantstar@Stellars-MacBook-Pro ~ % cd /Users/brilliantstar/GitHub/EtherAttack

| Figure 4 locate EtherAttack
```

6) Navigate to webapp

Eg: cd webapp

```
brilliantstar@Stellars-MacBook-Pro EtherAttack % cd webapp

Figure 5 cd webapp
```

7) Install python virtual environment

sudo apt install python3-pip python3-venv

8) Create a python virtual environment by inputting the command:

## python3 -m venv venv

. venv/bin/activate

 $brilliantstar@Stellars-MacBook-Pro\ webapp\ \%\ python 3\ -m\ venv\ brilliantstar@Stellars-MacBook-Pro\ webapp\ \%\ .\ venv/bin/activate$ 

Figure 6 create virtual environment

9) (.venv) will appear at the start of the directory terminal output.

[(venv) brilliantstar@Stellars-MacBook-Pro webapp %

Figure 7 (.venv) appearing at the start of directory terminal

10) Install dependencies that is required for this project using pip:

pip install -r requirements.txt

pip install Flask

(venv) brilliantstar@Stellars-MacBook-Pro webapp % pip install -r requirements.txt

(venv) brilliantstar@Stellars-MacBook-Pro webapp % pip install Flask

Figure 8 pip install

11) Install solidity compiler:

solc-select install 0.6.10

chmod +x SlitherScanner.sh

(venv) brilliantstar@Stellars-MacBook-Pro webapp % solc-select install 0.6.10

Figure 9 install solidity compiler

# 12) Verify that the compiler is installed

#### solc-select versions

```
version '0.6.10' installed.
[(venv) brilliantstar@Stellars-MacBook-Pro webapp % solc-select versions
0.6.10 (current, set by /Users/brilliantstar/.solc-select/global-version)

Figure 10 verify that compiler is well installed
```

## 13) Run the application:

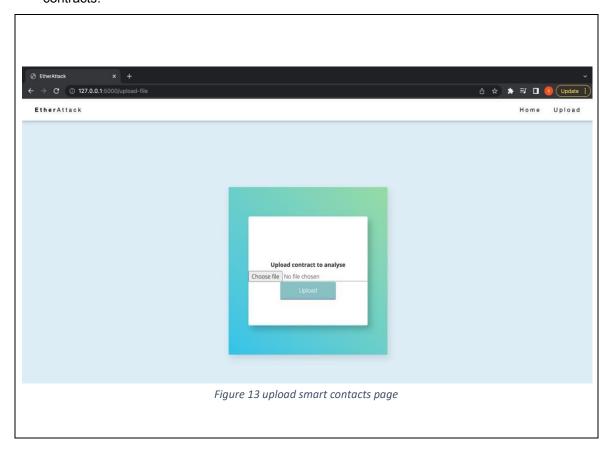
## python3 app.py

```
[(venv) brilliantstar@Stellars-MacBook-Pro webapp % python app.py
* Serving Flask app 'app' (lazy loading)
* Environment: production
    WARNING: This is a development server. Do not use it in a production deployment.
    Use a production WSGI server instead.
* Debug mode: on
* Running on http://127.0.0.1:5000 (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
* Debugger PIN: 295-929-250
Figure 11 run the application
```

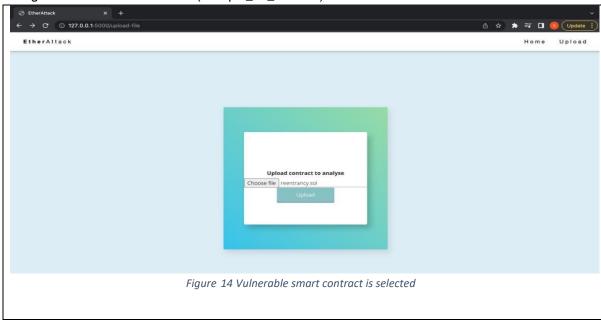
# 14) Visit <a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a> . EtherAttack webpage would be shown



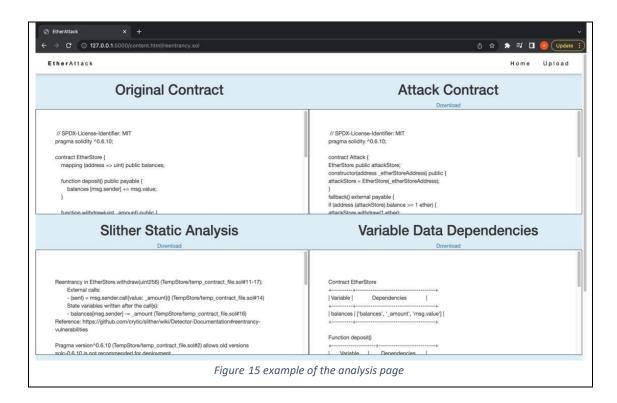
15) Click on upload on the main page and you will be directed to the upload page to upload smart contracts.



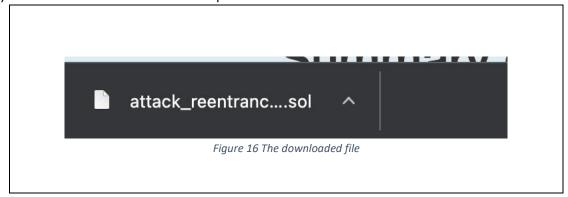
16) Choose a smart contract to upload. For this example, a vulnerable smart contract has been chosen. Use any smart contracts in the Sample\_Contracts folder to upload. This folder contains vulnerable contracts (Phising\_Tx\_origin.sol & reentrancy.sol) and contracts that will not generate an attack contract (Sample\_no\_vuln.sol)



17) After clicking the upload button, it will redirect you to the analysis page. The analysis page will show detailed information about the smart contract and the attack contract. This includes Attack contract, Slither static analysis, variable data dependencies, summary of functions and contract summary.



18) Click the download button on the top of each section to download.



19) If there is no vulnerable in the smart contract, a "no vulnerabilities" notice will be shown under the Attack Contract section in the analysis page.

