Cybersecurity Tools with Python

What does it do?

Implementation of three tools in Python using the Scapy library: Port scanner, Sniffer and DOS simulator. The tools run specificaly in unix-based systems, all tests were done using virtual machines with VirtualBox NAT network environments.

How to Use?

Dependencies

- Scapy Library
  - Run:

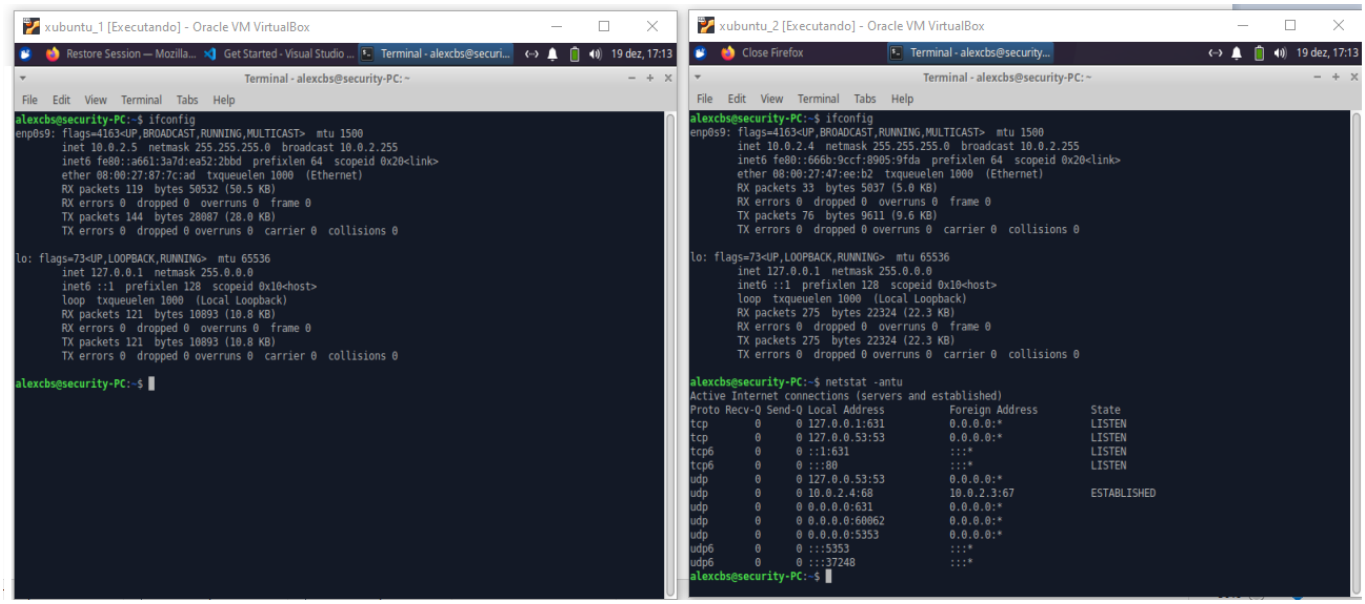
```
$ python -m pip install scapy
```

- Tkinter Library
  - Run:

```
$ python -m pip install tk
```

Tests Scenarios

- Virtualized Environment using VirtualBox
  - NAT Network
    - IP - 10.0.2.0/24
    - xubuntu_1 - IP 10.0.2.5 / Interface enp0s9 (Attacker)
    - xubuntu_2 - IP 10.0.2.4 / Interface enp0s9
    - xubuntu_2 - Apache Server in the 80 port

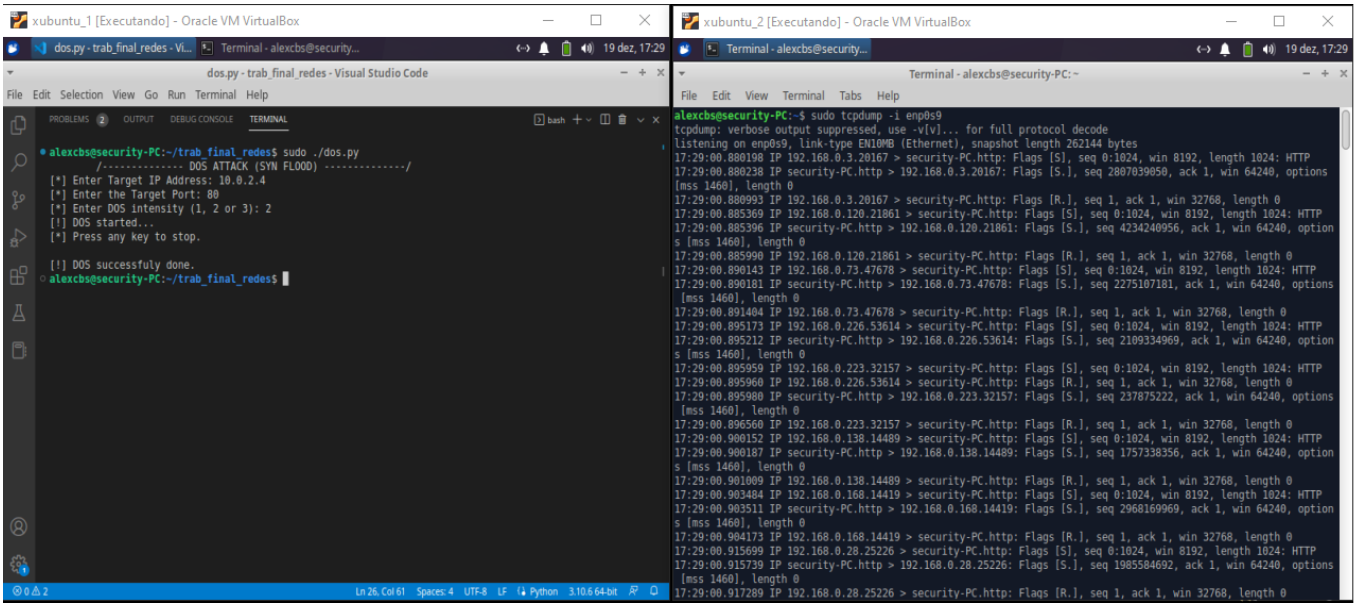


- Give execution permission to all directories
  - Within the **src** directory, run:

```
$ sudo chmod -R 777 ./dos
$ sudo chmod -R 777 ./port_scan
$ sudo chmod -R 777 ./sniffing
```

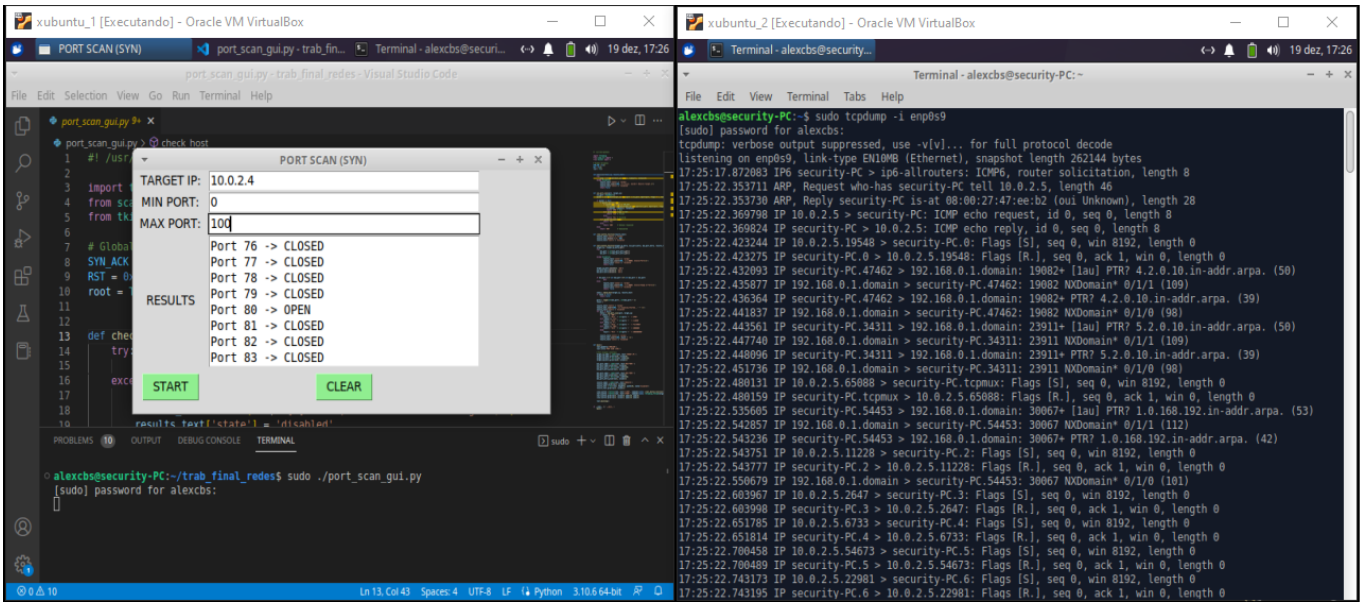
- DOS
  - Within the **src/dos** directory, run:

```
$ sudo ./dos.py
```



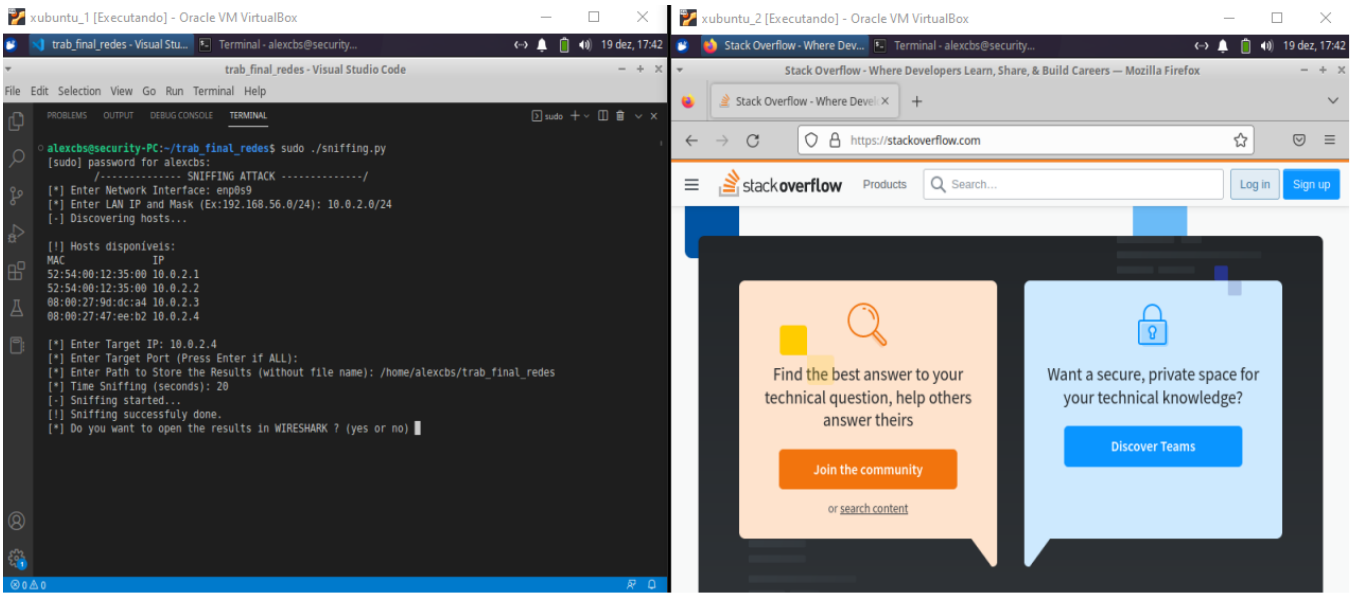
- Port Scanner
  - Within the **src/port_scan** directory, run:

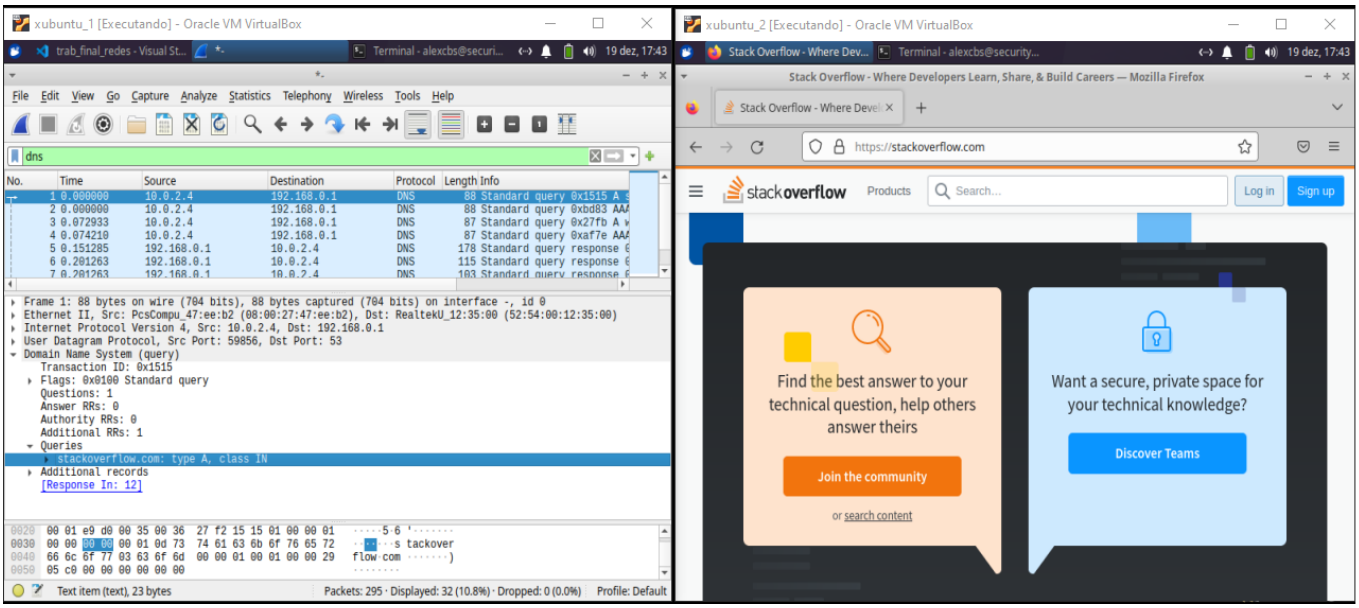
```
$ sudo ./port_scan.py
```



- Sniffing
  - Within the **src/sniffing** directory, run:

```
$ sudo ./sniffing.py
```




xubuntu_1 [Executando] - Oracle VM VirtualBox
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