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NSSECU2 – S12

How to Download ScanPydia

ScanPydia is a Network Scanning Tool created by Bernice Betito in order to accomplish one of her requirements for Advanced and Offensive Security (NSSECU2). ScanPydia is fully written in Python and to help in achieving the network scanning features, Scapy, a powerful program and library used in dealing with networking packets, is utilized.

ScanPydia is able to do ICMP Echo Request and TCP Scans including TCP Connect Scan, TCP SYN (Half-Open) Scan, Xmas Scan, FIN Scan, Null Scan, and Ack Scan. Another feature included in ScanPydia is computing for the total time that the program executed.

In order to use ScanPydia, it needs to be first downloaded. The instructions below would serve as a guide on how to properly download ScanPydia in your machine.

I. BEFORE STARTING

Before downloading anything, make sure to use the following command:

```
sudo apt-get update
```

This command updates the list of updates for packages that have updates.

II. PRE-REQUISITES

1. PYTHON3

Since the programming language to be used is Python, it needs to then be downloaded in the machine. To download Python 3, the following command is utilized:

```
sudo apt-get install python3
```

2. CURL

Curl is a command that allows the transfer (upload / download) of data using command line interface. This would be the command which would allow an easier installation process of ScanPydia. To download curl, the following command is utilized:

```
sudo apt-get install curl
```

3. PIP

Pip is a tool which would help in installing packages written in Python. Having pip would allow the user to easier download the other requirements. To download pip, the following command is utilized:

```
sudo apt-get install pip
```

4. SCAPY

Scapy is a powerful tool and library written in Python. Scapy comes in handy when dealing with networks, scanning, and packets. To download scapy, the following command is utilized:

```
sudo pip install scapy
```

III. SCANPYDIA

Now that all the prerequisites are installed in the machine, we can now download ScanPydia. In order to download ScanPydia, the curl command is utilized as follows:

```
sudo curl -O https://raw.githubusercontent.com/bernicebetito/ScanPydia/main/ScanPydia.py
```

In VM **nssecu2-02** however, the file is already downloaded and ready to go. The file is currently in the folder *labtainer-student* which is located in the folder *labtainer* in *home*.

Once finished downloading, ScanPydia can now be utilized. To start, you can enter the following command in order to see a full list of available commands in ScanPydia:

```
sudo python3 ScanPydia.py
```