Sublist3r

Sublist3r is a Python tool that uses OSINT to enumerate website subdomains. It assists penetration testers and bug hunters in collecting and gathering subdomains for the domain being targeted.

Prerequisite's:

Python 3 – For running Sublist3r tool, a python3 needs to be present prior to installing requirements

Installation:

For demonstration, Ubuntu 20.04 Linux distribution is used throughout this guide

- Python 3 - sudo apt install -y python3-pip

After installing appropriate Python version, next step is to install Sublist3r tool, which can be downloaded from below address:

https://github.com/aboul3la/Sublist3r

After downloading the tool, next step is to traverse to the downloaded directory as shown in below example:

Then the next step is to install the requirements for running the tool which can be done using below command:

- pip3 install -r requirements.txt

```
seed@VM: ~/Downloads/Sublist3r
                                                                Q
                                                                               seed@VM:~/Downloads/Sublist3r$ ls
LICENSE MANIFEST.in README.md requirements.txt setup.py subbrute sublist3r.py
seed@VM:~/Downloads/Sublist3r$ pip3 install -r requirements.txt
Defaulting to user installation because normal site-packages is not writeable
Collecting argparse
 Downloading argparse-1.4.0-py2.py3-none-any.whl (23 kB)
Collecting dnspython
 Downloading dnspython-2.2.1-py3-none-any.whl (269 kB)
                                             · 269.1/269.1 KB 5.3 MB/s eta 0:00:00
Requirement already satisfied: requests in /usr/lib/python3/dist-packages (from -r re
quirements.txt (line 3)) (2.25.1)
Installing collected packages: argparse, dnspython
Successfully installed argparse-1.4.0 dnspython-2.2.1
seed@VM:~/Downloads/Sublist3r$
```

Execution:

After installing the required packages as shown in above screenshot, the tool can be executed using following command

python3 sublist3r.py

The manual for identifying the appropriate usage of switches within the tool can be found using following command

- python3 sublist3r.py -h

```
seed@VM: ~/Downloads/Sublist3r
OPTIONS:
                      show this help message and exit
 -h, --help show
-d DOMAIN, --domain DOMAIN
                      Domain name to enumerate it's subdomains
 -b [BRUTEFORCE], --bruteforce [BRUTEFORCE]

Enable the subbrute bruteforce module
  -p PORTS, --ports PORTS
                      Scan the found subdomains against specified tcp ports
 -v [VERBOSE], --verbose [VERBOSE]
Enable Verbosity and display results in realtime
 Number of threads to use for subbrute bruteforce -e ENGINES, --engines ENGINES
                      Specify a comma-separated list of search engines
 -o OUTPUT, --output OUTPUT
                      Save the results to text file
  -n, --no-color
                      Output without color
```

For testing purpose, following demo vulnerable website is used and below command can be run against it to identify the subdomains

- python3 sublist3r.py -d testfire.net



As seen from the result, this tool is very helpful in initial reconnaissance activities for scanning subdomains within target scope domains which can be utilized for identifying various web application vulnerabilities.