

ADVANCED SOC - COMP 4078

COMP4078-Lab04

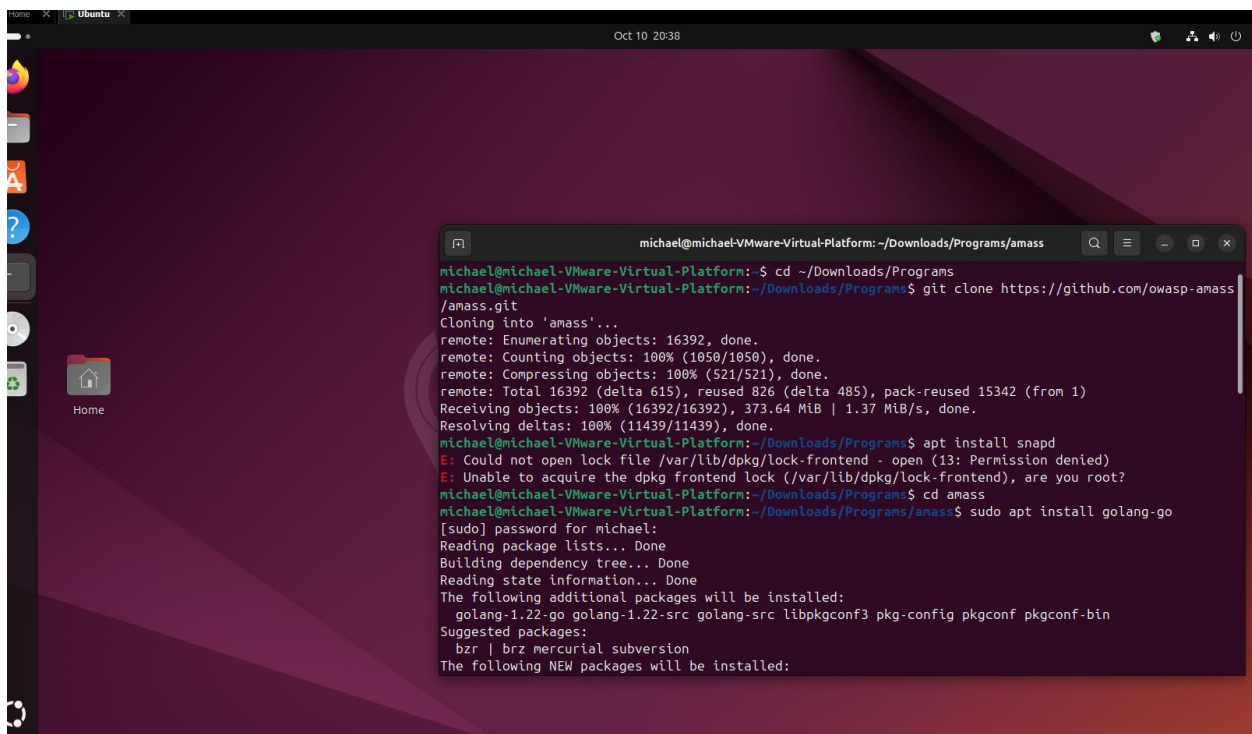
sudo snap install amass:

1. Install Amass via Snap:

- Command: `sudo snap install amass`
- Explanation: This installs Amass using the Snap package manager.

2. Navigate to the Programs Folder:

- Command: `cd ~/Downloads/Programs`
- Explanation: Moves to the directory where all the tools will be installed



```
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/amass
michael@michael-VMware-Virtual-Platform: $ cd ~/Downloads/Programs
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$ git clone https://github.com/owasp-amass/amass.git
Cloning into 'amass'...
remote: Enumerating objects: 16392, done.
remote: Counting objects: 100% (1050/1050), done.
remote: Compressing objects: 100% (521/521), done.
remote: Total 16392 (delta 615), reused 826 (delta 485), pack-reused 15342 (from 1)
Receiving objects: 100% (16392/16392), 373.64 MiB | 1.37 MiB/s, done.
Resolving deltas: 100% (11439/11439), done.
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$ apt install snapd
E: Could not open lock file /var/lib/dpkg/lock-frontent - open (13: Permission denied)
E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontent), are you root?
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$ cd amass
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/amass$ sudo apt install golang-go
[sudo] password for michael:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  golang-1.22-go golang-1.22-src golang-src libpkgconf3 pkg-config pkgconf pkgconf-bin
Suggested packages:
  bzr | brz mercurial subversion
The following NEW packages will be installed:
```

```
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/amass$ sudo apt install golang-go
[sudo] password for michael:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  golang-1.22-go golang-1.22-src golang-src libpkgconf3 pkg-config pkgconf pkgconf-bin
Suggested packages:
  bzip2 | brz mercurial subversion
The following NEW packages will be installed:
  golang-1.22-go golang-1.22-src golang-go golang-src libpkgconf3 pkg-config pkgconf pkgconf-bin
0 upgraded, 8 newly installed, 0 to remove and 3 not upgraded.
Need to get 45.8 MB of archives.
After this operation, 228 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ca.archive.ubuntu.com/ubuntu noble-updates/main amd64 golang-1.22-src all 1.22.2-2ubuntu0
.2 [19.7 MB]
20% [1 golang-1.22-src 11.3 MB/19.7 MB 57%] 1,242 kB/s 27s
```

Install Sublist3r

Clone the Sublist3r repository:

- Command: `git clone https://github.com/about3la/Sublist3r.git`
- Explanation: Downloads the Sublist3r tool from GitHub.

. Create a virtual environment for Sublist3r:

- Command: `python3 -m venv Sublist3rEnvironment`
- Explanation: Creates an isolated Python environment for Sublist3r.

. Activate the Sublist3r environment:

- Command: `source Sublist3rEnvironment/bin/activate`
- Explanation: Activates the Sublist3r virtual environment.

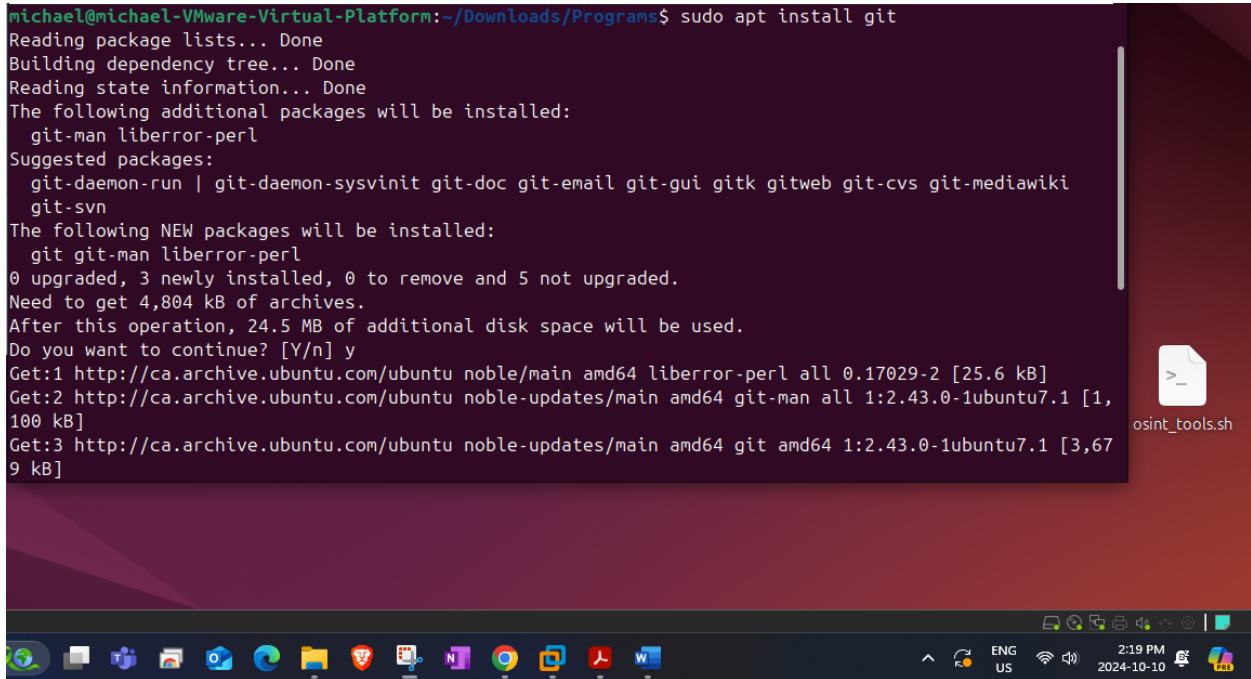
. Install Sublist3r dependencies:

- Command: `pip install -r requirements.txt`
- Explanation: Installs necessary Python packages for Sublist3r.

7 Deactivate the Sublist3r environment:

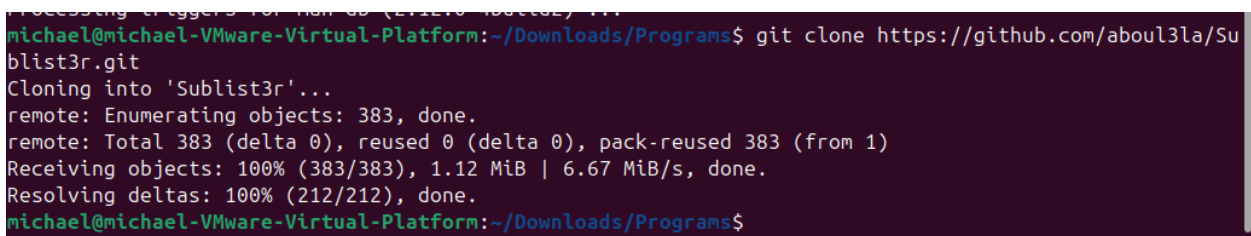
- Command: deactivate
- Explanation: Deactivates the virtual environment.

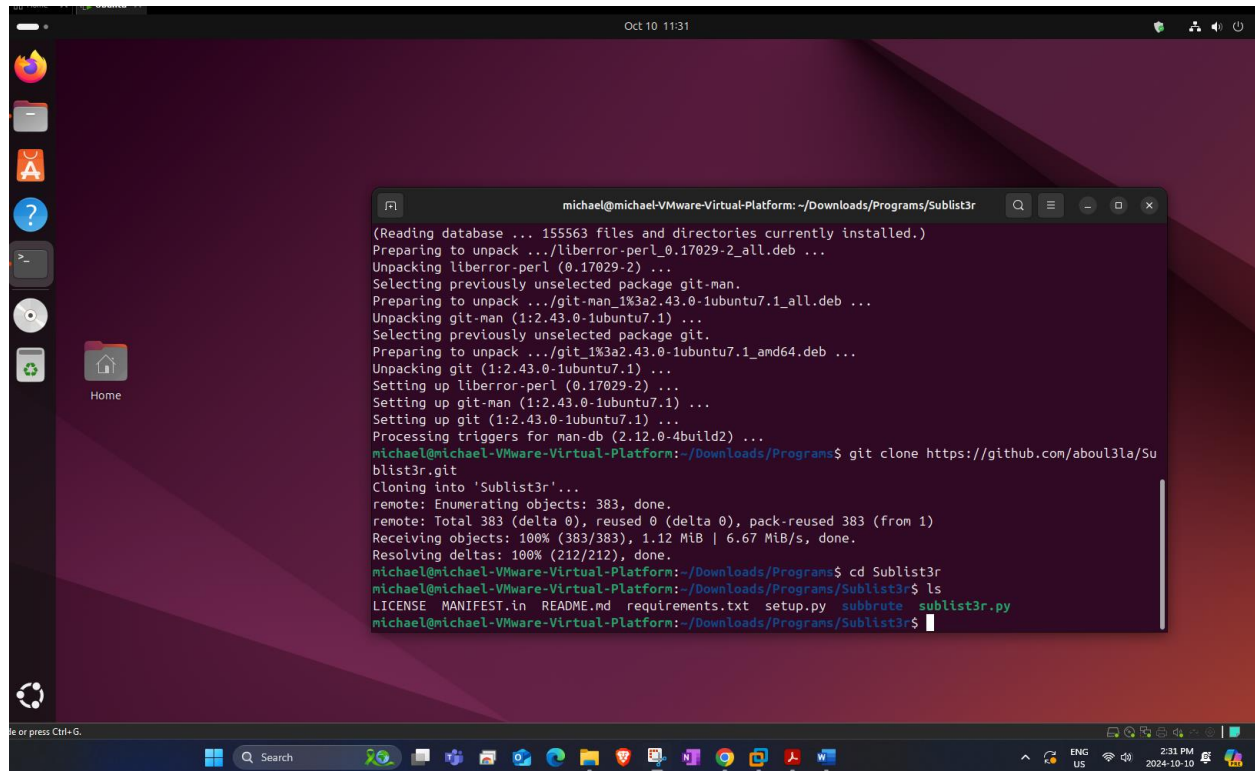
```
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$ sudo apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  git-man liberror-perl
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk gitweb git-cvs git-mediawiki
  git-svn
The following NEW packages will be installed:
  git git-man liberror-perl
0 upgraded, 3 newly installed, 0 to remove and 5 not upgraded.
Need to get 4,804 kB of archives.
After this operation, 24.5 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ca.archive.ubuntu.com/ubuntu noble/main amd64 liberror-perl all 0.17029-2 [25.6 kB]
Get:2 http://ca.archive.ubuntu.com/ubuntu noble-updates/main amd64 git-man all 1:2.43.0-1ubuntu7.1 [1,100 kB]
Get:3 http://ca.archive.ubuntu.com/ubuntu noble-updates/main amd64 git amd64 1:2.43.0-1ubuntu7.1 [3,679 kB]
Processing triggers for man-db (2.12.1-1ubuntu1) ...
```



Clone the Sublist3r repository:

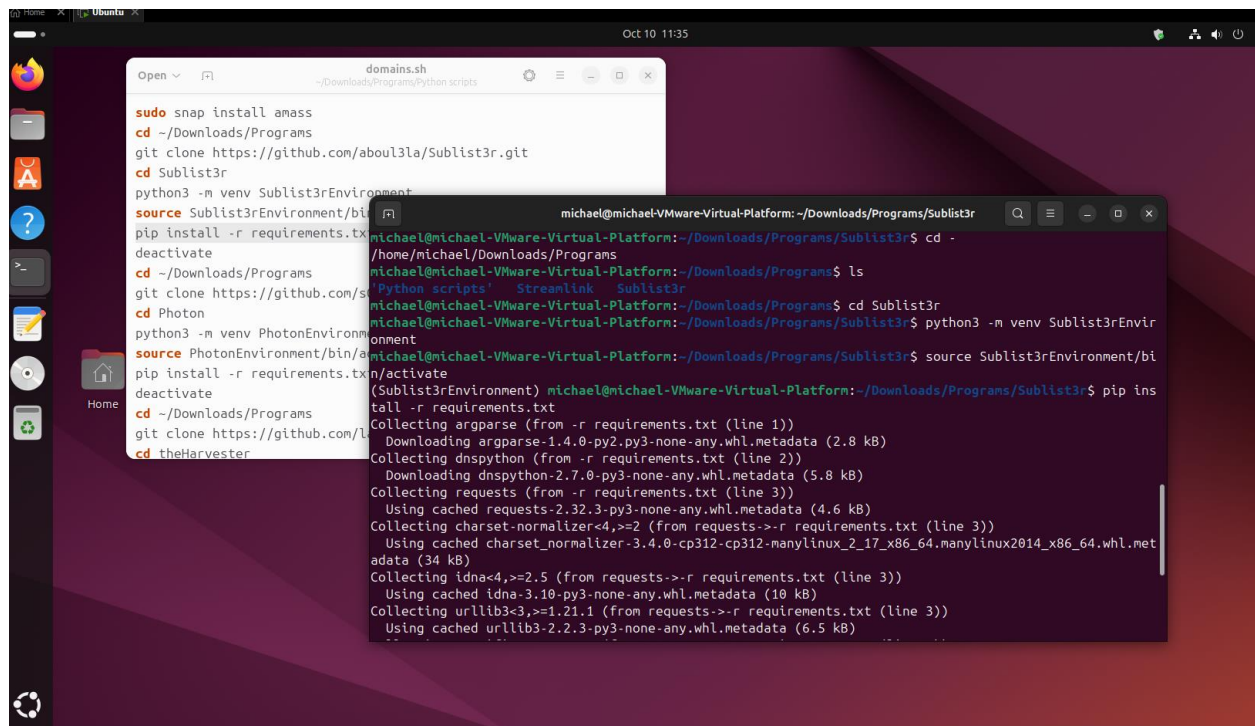
```
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$ git clone https://github.com/aboul31a/Sublist3r.git
Cloning into 'Sublist3r'...
remote: Enumerating objects: 383, done.
remote: Total 383 (delta 0), reused 0 (delta 0), pack-reused 383 (from 1)
Receiving objects: 100% (383/383), 1.12 MiB | 6.67 MiB/s, done.
Resolving deltas: 100% (212/212), done.
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$
```





```
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/Sublist3r
(Reading database ... 155563 files and directories currently installed.)
Preparing to unpack .../liberror-perl_0.17029-2_all.deb ...
Unpacking liberror-perl (0.17029-2) ...
Selecting previously unselected package git-man.
Preparing to unpack .../git-man_1%3a2.43.0-1ubuntu7.1_all.deb ...
Unpacking git-man (1:2.43.0-1ubuntu7.1) ...
Selecting previously unselected package git.
Preparing to unpack .../git_1%3a2.43.0-1ubuntu7.1_amd64.deb ...
Unpacking git (1:2.43.0-1ubuntu7.1) ...
Setting up liberror-perl (0.17029-2) ...
Setting up git-man (1:2.43.0-1ubuntu7.1) ...
Setting up git (1:2.43.0-1ubuntu7.1) ...
Processing triggers for man-db (2.12.0-4build2) ...
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$ git clone https://github.com/about3la/Sublist3r.git
Cloning into 'Sublist3r'...
remote: Enumerating objects: 383, done.
remote: Total 383 (delta 0), reused 0 (delta 0), pack-reused 383 (from 1)
Receiving objects: 100% (383/383), 1.12 MiB | 6.67 MiB/s, done.
Resolving deltas: 100% (212/212), done.
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$ cd Sublist3r
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/Sublist3r$ ls
LICENSE MANIFEST.in README.md requirements.txt setup.py subbrute sublist3r.py
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/Sublist3r$
```

Create a virtual environment for Sublist3r:



```
domains.sh
~/Downloads/Programs/Python scripts
sudo snap install amass
cd ~/Downloads/Programs
git clone https://github.com/about3la/Sublist3r.git
cd Sublist3r
python3 -m venv Sublist3rEnvironment
source Sublist3rEnvironment/bin/activate
pip install -r requirements.txt
deactivate
cd ~/Downloads/Programs
git clone https://github.com/about3la/Sublist3r.git
cd theHarvester

michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/Sublist3r$ cd -
/home/michael/Downloads/Programs
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$ ls
Python scripts' Streamlink Sublist3r
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$ cd Sublist3r
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/Sublist3r$ python3 -m venv Sublist3rEnvironment
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/Sublist3r$ source Sublist3rEnvironment/bin/activate
(Sublist3rEnvironment) michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/Sublist3r$ pip install -r requirements.txt
Collecting argparse (from -r requirements.txt (line 1))
  Downloading argparse-1.4.0-py2.py3-none-any.whl.metadata (2.8 kB)
Collecting dnspython (from -r requirements.txt (line 2))
  Downloading dnspython-2.7.0-py3-none-any.whl.metadata (5.8 kB)
Collecting requests (from -r requirements.txt (line 3))
  Using cached requests-2.32.3-py3-none-any.whl.metadata (4.6 kB)
Collecting charset-normalizer<4,>=2 (from requests->-r requirements.txt (line 3))
  Using cached charset-normalizer-3.4.0-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (34 kB)
Collecting idna<4,>=2.5 (from requests->-r requirements.txt (line 3))
  Using cached idna-3.10-py3-none-any.whl.metadata (10 kB)
Collecting urllib3<3,>=1.21.1 (from requests->-r requirements.txt (line 3))
  Using cached urllib3-2.2.3-py3-none-any.whl.metadata (6.5 kB)
```

```
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/Sublist3r
Using cached requests-2.32.3-py3-none-any.whl.metadata (4.6 kB)
Collecting charset-normalizer<4,>=2 (from requests->-r requirements.txt (line 3))
Using cached charset_normalizer-3.4.0-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.met
adata (34 kB)
Collecting idna<4,>=2.5 (from requests->-r requirements.txt (line 3))
Using cached idna-3.10-py3-none-any.whl.metadata (10 kB)
Collecting urllib3<3,>=1.21.1 (from requests->-r requirements.txt (line 3))
Using cached urllib3-2.2.3-py3-none-any.whl.metadata (6.5 kB)
Collecting certifi>=2017.4.17 (from requests->-r requirements.txt (line 3))
Using cached certifi-2024.8.30-py3-none-any.whl.metadata (2.2 kB)
Downloading argparse-1.4.0-py2.py3-none-any.whl (23 kB)
Downloading dnspython-2.7.0-py3-none-any.whl (313 kB)
313.6/313.6 kB 9.8 MB/s eta 0:00:00
Using cached requests-2.32.3-py3-none-any.whl (64 kB)
Using cached certifi-2024.8.30-py3-none-any.whl (167 kB)
Using cached charset_normalizer-3.4.0-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (143
kB)
Using cached idna-3.10-py3-none-any.whl (70 kB)
Using cached urllib3-2.2.3-py3-none-any.whl (126 kB)
Installing collected packages: argparse, urllib3, idna, dnspython, charset-normalizer, certifi, reques
ts
Successfully installed argparse-1.4.0 certifi-2024.8.30 charset-normalizer-3.4.0 dnspython-2.7.0 idna-
3.10 requests-2.32.3 urllib3-2.2.3
(Sublist3rEnvironment) michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/Sublist3r$
```

```
Successfully installed argparse-1.4.0 certifi-2024.8.30 charset-normalizer-3.4.0 dnspython-2.7.0 idna-3.10 requests-2.32.3 url
lib3-2.2.3
(Sublist3rEnvironment) michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/Sublist3r$ deactivate
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/Sublist3r$
```

```
Oct 10 20:58
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/Sublist3r
(Sublist3rEnvironment) michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/Sublist3r$ python3 sublist3r.py -d google.com
/home/michael/Downloads/Programs/Sublist3r/sublist3r.py:75: SyntaxWarning: invalid escape sequence '_'
print("%s"
/home/michael/Downloads/Programs/Sublist3r/sublist3r.py:286: SyntaxWarning: invalid escape sequence '\\'
link_regex = re.compile('<cite.*?>(.*?)</cite>')
/home/michael/Downloads/Programs/Sublist3r/sublist3r.py:343: SyntaxWarning: invalid escape sequence '\\'
link = re.sub("<(\/?)?b>", "", link)
/home/michael/Downloads/Programs/Sublist3r/sublist3r.py:439: SyntaxWarning: invalid escape sequence '\\'
link = re.sub('<(\/?)?strong>|<span.*?>|</>', '', link)
/home/michael/Downloads/Programs/Sublist3r/sublist3r.py:658: SyntaxWarning: invalid escape sequence '\\'
tbl_regex = re.compile('<a name="hostanchor"></a>Host Records.*?<table.*?>(.*?)</table>', re.S)
/home/michael/Downloads/Programs/Sublist3r/sublist3r.py:898: SyntaxWarning: invalid escape sequence '\.'
domain_check = re.compile("^(http|https)?[a-zA-Z0-9]+([\\.\-]{1}[a-zA-Z0-9]+)*\\.?[a-zA-Z]{2,}$")
/home/michael/Downloads/Programs/Sublist3r/subbrute/subbrute.py:374: SyntaxWarning: invalid escape sequence '\.'
domain_match = re.compile("([a-zA-Z0-9_-]*\\.?[a-zA-Z0-9_-]*\\.?[a-zA-Z0-9_-]*\\.?)+")

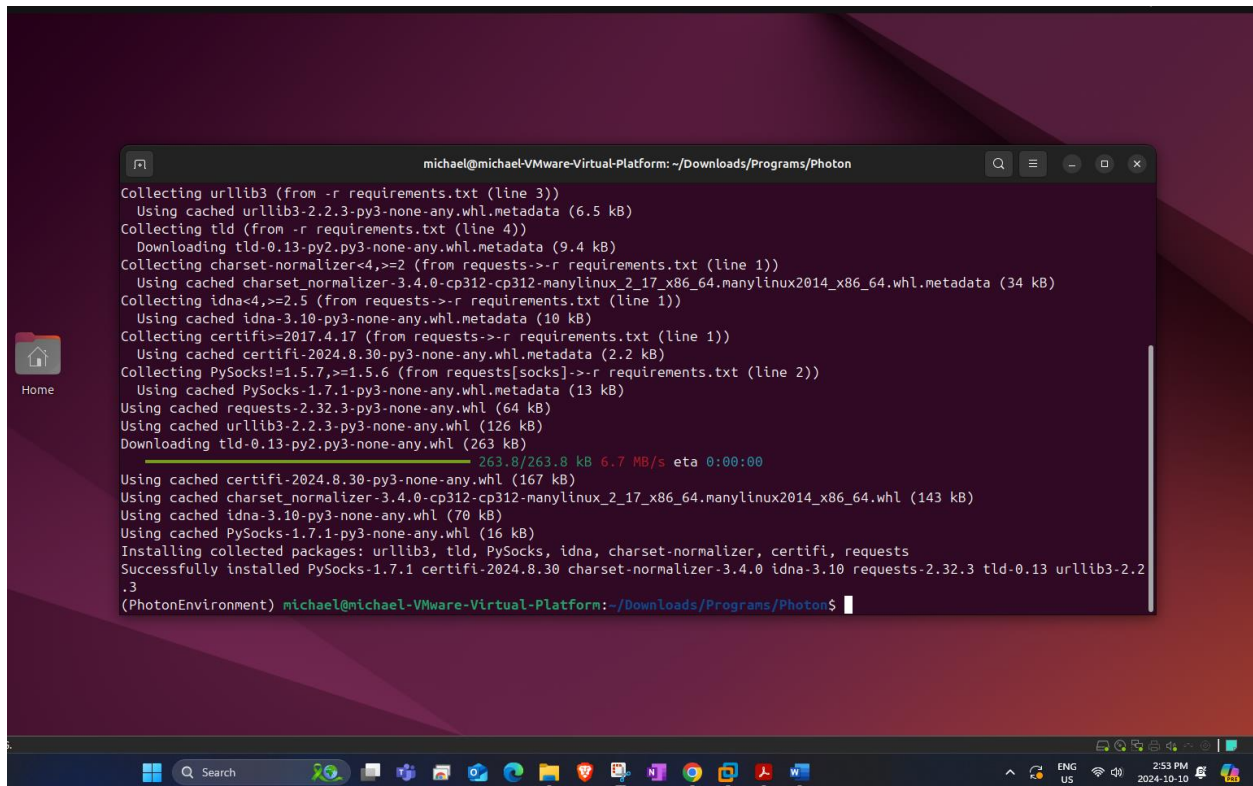
Sublist3r
# Coded By Ahmed Aboul-Ela - @aboul3la

[-] Enumerating subdomains now for google.com
[-] Searching now in Baidu..
[-] Searching now in Yahoo..
[-] Searching now in Google..
[-] Searching now in Bing..
[-] Searching now in Ask..
[-] Searching now in Netcraft..
[-] Searching now in DNSdumpster..
[-] Searching now in Virustotal..
[-] Searching now in ThreatCrowd..
[-] Searching now in SSL Certificates..
[-] Searching now in PassiveDNS..
Process GoogleEnum-4:
Traceback (most recent call last):
```

```
michael@michael-VMware-Virtual-Platform: ~
[-] Searching now in Ask..
[-] Searching now in Netcraft..
[-] Searching now in DNSdumpster..
[-] Searching now in Virustotal..
[-] Searching now in ThreatCrowd..
[-] Searching now in SSL Certificates..
[-] Searching now in PassiveDNS..
[!] Error: Virustotal probably now is blocking our requests
[!] Error: Google probably now is blocking our requests
[-] Finished now the Google Enumeration ...
[-] Total Unique Subdomains Found: 97
www.google.com
accounts.google.com
freezone.accounts.google.com
adwords.google.com
qa.adz.google.com
answers.google.com
apps-secure-data-connector.google.com
audioloads.google.com
checkout.google.com
mtv-da-1.ad.corp.google.com
ads-compare.eem.corp.google.com
da.ext.corp.google.com
m.guts.corp.google.com
```

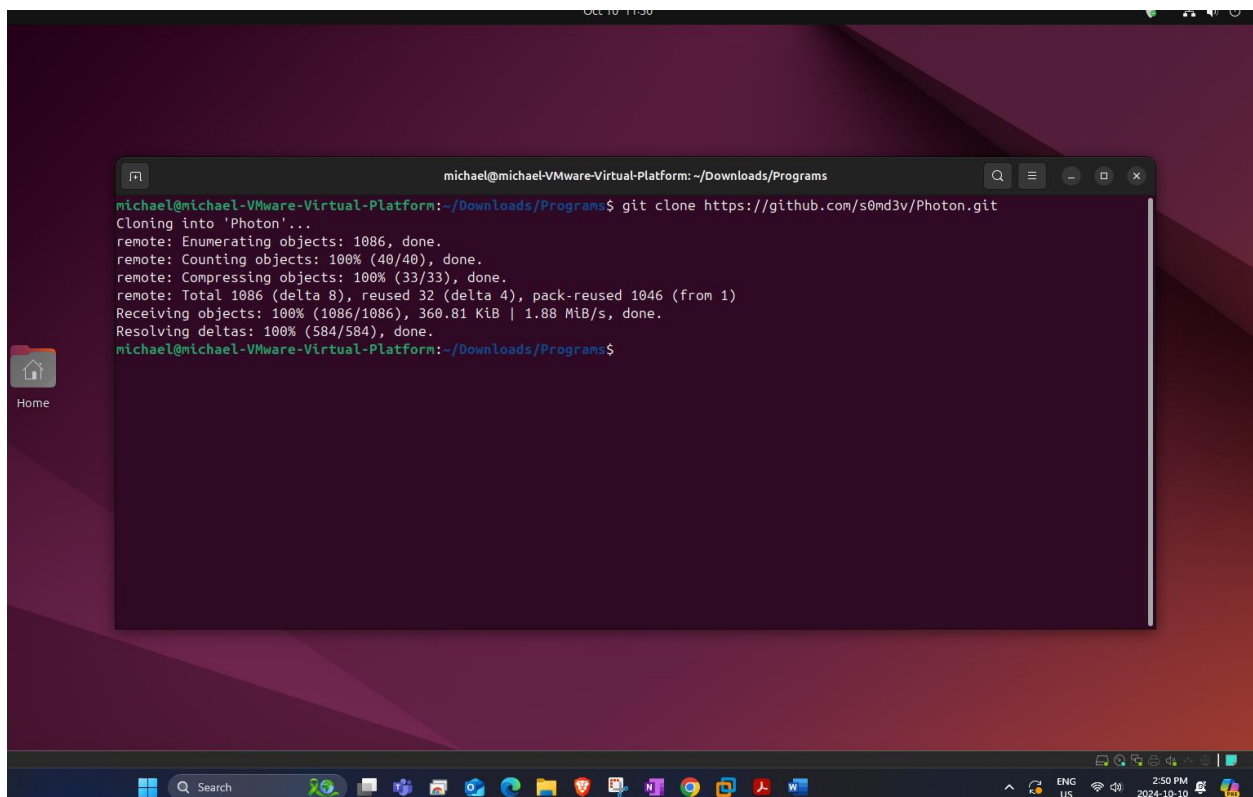
Clone the Photon repository:

- Clone the Photon repository:
 - Command: `git clone https://github.com/s0md3v/Photon.git`
 - Explanation: Downloads Photon from GitHub.
- Create a virtual environment for Photon:
 - Command: `python3 -m venv PhotonEnvironment`
 - Explanation: Creates an isolated Python environment for Photon.
- Activate the Photon environment:
 - Command: `source PhotonEnvironment/bin/activate`
 - Explanation: Activates the Photon virtual environment.
- Install Photon dependencies:
 - Command: `pip install -r requirements.txt`
 - Explanation: Installs necessary Python packages for Photon.
- Deactivate the Photon environment:
 - Command: `deactivate`
 - Explanation: Deactivates the virtual environment.



A terminal window titled "michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/Photon" displays the output of a pip install command. The output shows the collection and installation of various dependencies from a requirements.txt file. The dependencies include urllib3, tld, charset-normalizer, idna, certifi, PySocks, requests, and tld. The installation is successful, and the prompt changes to (PhotonEnvironment).

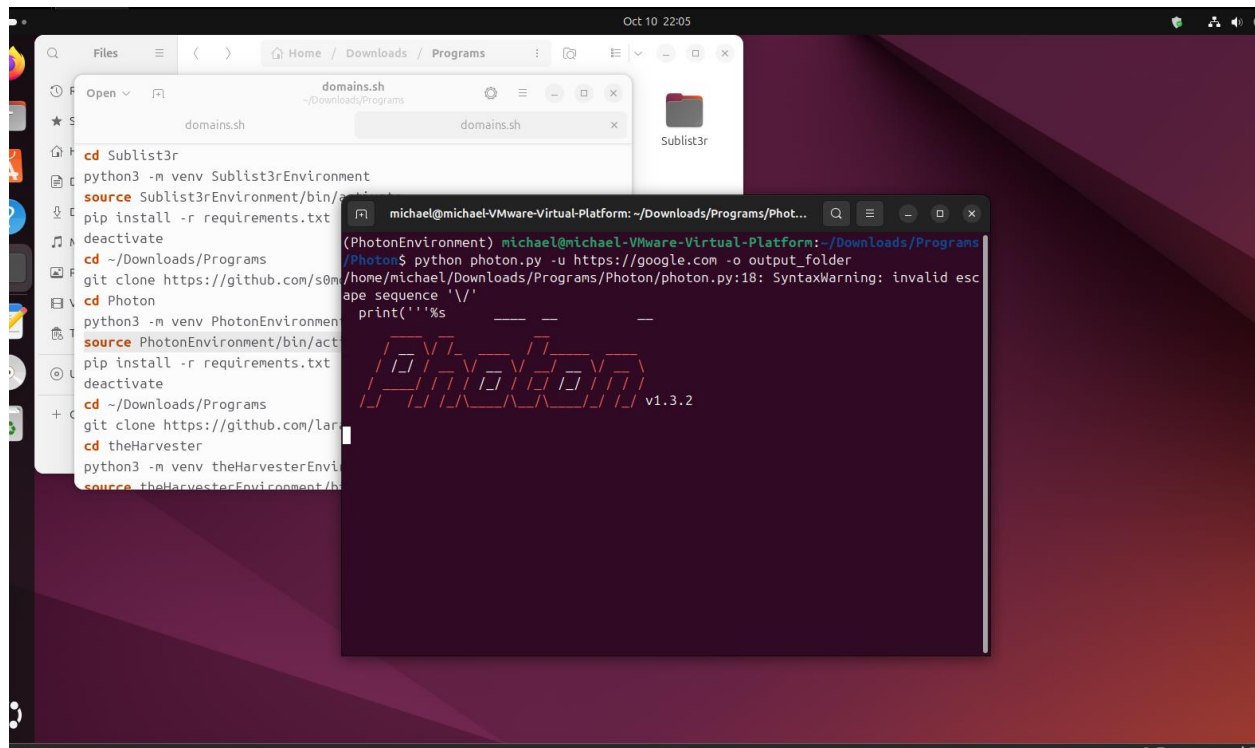
```
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/Photon
Collecting urllib3 (from -r requirements.txt (line 3))
  Using cached urllib3-2.2.3-py3-none-any.whl.metadata (6.5 kB)
Collecting tld (from -r requirements.txt (line 4))
  Downloading tld-0.13-py2.py3-none-any.whl.metadata (9.4 kB)
Collecting charset-normalizer<4,>=2 (from requests->-r requirements.txt (line 1))
  Using cached charset-normalizer-3.4.0-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (34 kB)
Collecting idna<4,>=2.5 (from requests->-r requirements.txt (line 1))
  Using cached idna-3.10-py3-none-any.whl.metadata (10 kB)
Collecting certifi>=2017.4.17 (from requests->-r requirements.txt (line 1))
  Using cached certifi-2024.8.30-py3-none-any.whl.metadata (2.2 kB)
Collecting PySocks!=1.5.7,>=1.5.6 (from requests[socks]->-r requirements.txt (line 2))
  Using cached PySocks-1.7.1-py3-none-any.whl.metadata (13 kB)
Using cached requests-2.32.3-py3-none-any.whl (64 kB)
Using cached urllib3-2.2.3-py3-none-any.whl (126 kB)
Downloading tld-0.13-py2.py3-none-any.whl (263 kB)
  263.8/263.8 kB 6.7 MB/s eta 0:00:00
Using cached certifi-2024.8.30-py3-none-any.whl (167 kB)
Using cached charset-normalizer-3.4.0-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (143 kB)
Using cached idna-3.10-py3-none-any.whl (70 kB)
Using cached PySocks-1.7.1-py3-none-any.whl (16 kB)
Installing collected packages: urllib3, tld, PySocks, idna, charset-normalizer, certifi, requests
Successfully installed PySocks-1.7.1 certifi-2024.8.30 charset-normalizer-3.4.0 idna-3.10 requests-2.32.3 tld-0.13 urllib3-2.2.3
(PythonEnvironment) michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/Photon$
```



A terminal window titled "michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs" displays the output of a git clone command. The output shows the cloning process of the Photon repository from GitHub. The cloning is successful, and the prompt changes to michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs\$.

```
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs$ git clone https://github.com/s0md3v/Photon.git
Cloning into 'Photon'...
remote: Enumerating objects: 1086, done.
remote: Counting objects: 100% (40/40), done.
remote: Compressing objects: 100% (33/33), done.
remote: Total 1086 (delta 8), reused 32 (delta 4), pack-reused 1046 (from 1)
Receiving objects: 100% (1086/1086), 360.81 KiB | 1.88 MiB/s, done.
Resolving deltas: 100% (584/584), done.
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs$
```

```
(PhotonEnvironment) michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/Photon$ deactivate
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/Photon$ ls
CHANGELOG.md  core  Dockerfile  LICENSE.md  MANIFEST.in  PhotonEnvironment  photon.py  plugins  README.md  requirements.txt
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/Photon$
```



Install TheHarvester:

Clone TheHarvester repository:

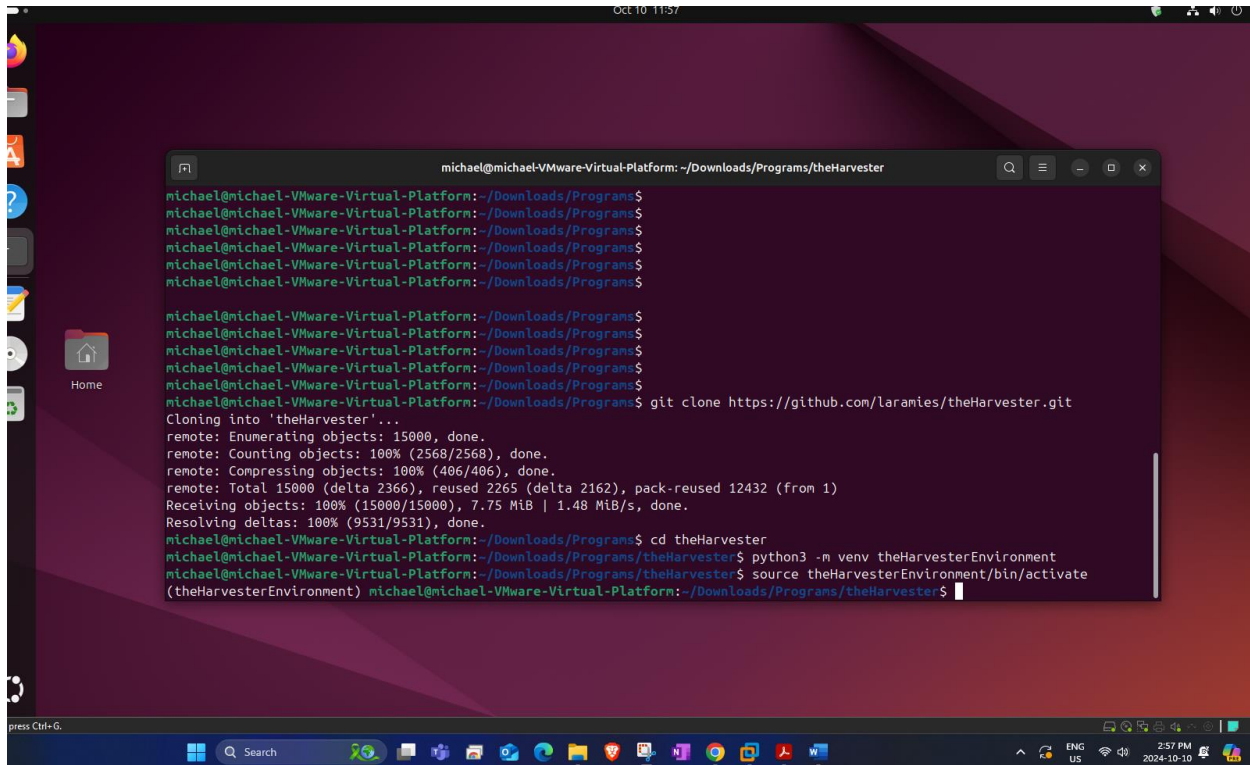
- Command: `git clone https://github.com/laramies/theHarvester.git`
- Explanation: Downloads TheHarvester from GitHub.
- 14. Create a virtual environment for TheHarvester:
 - Command: `python3 -m venv theHarvesterEnvironment`
 - Explanation: Creates an isolated Python environment for TheHarvester.

- Activate the TheHarvester environment:
 - Command: `source theHarvesterEnvironment/bin/activate`
 - Explanation: Activates the TheHarvester virtual environment.

- Install TheHarvester dependencies:
 - Command: `pip install -r requirements.txt`
 - Explanation: Installs necessary Python packages for TheHarvester.

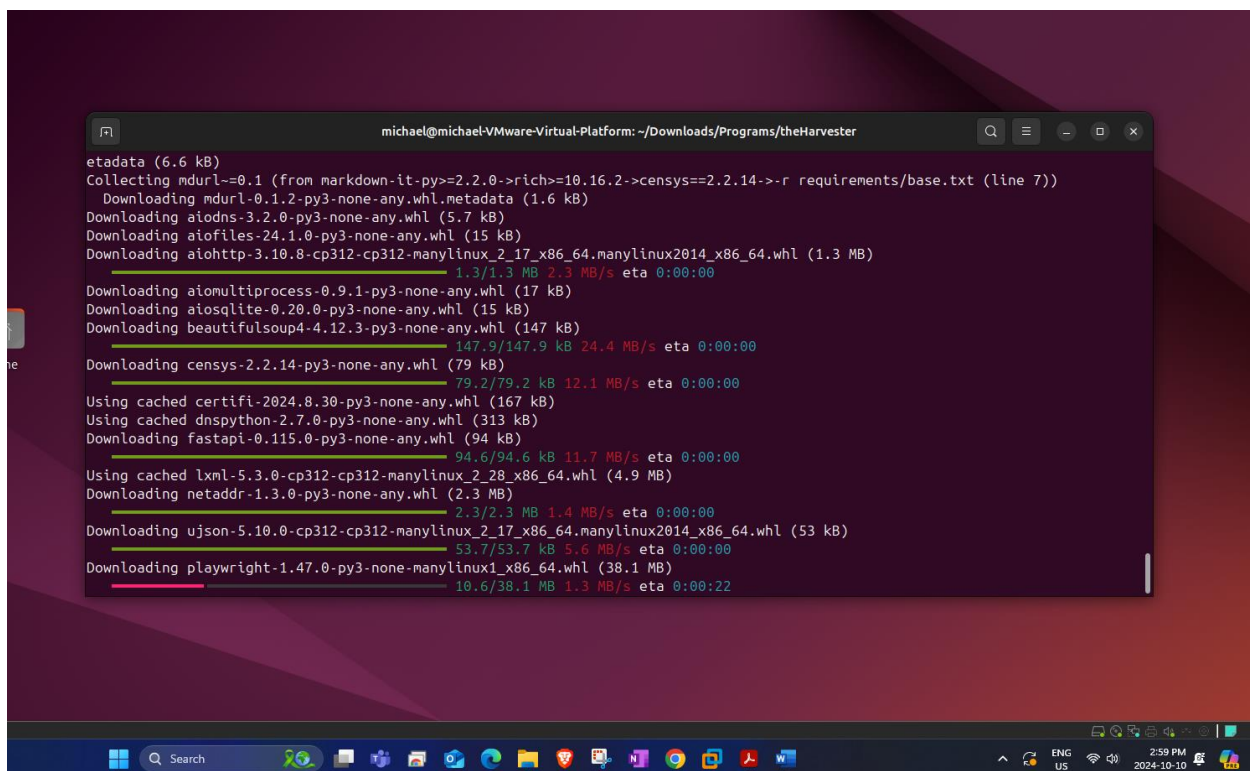
- Deactivate the TheHarvester environment:
 - Command: `deactivate`
 - Explanation: Deactivates the virtual environment.

- Install testresources and webscreenshot:
 - Command: `pip install testresources && pip install webscreenshot`
 - Explanation: Installs additional dependencies required by the tools.



```
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/theHarvester
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$

michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$ git clone https://github.com/laramies/theHarvester.git
Cloning into 'theHarvester'...
remote: Enumerating objects: 15000, done.
remote: Counting objects: 100% (2568/2568), done.
remote: Compressing objects: 100% (406/406), done.
remote: Total 15000 (delta 2366), reused 2265 (delta 2162), pack-reused 12432 (from 1)
Receiving objects: 100% (15000/15000), 7.75 MiB | 1.48 MiB/s, done.
Resolving deltas: 100% (9531/9531), done.
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$ cd theHarvester
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/theHarvester$ python3 -m venv theHarvesterEnvironment
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/theHarvester$ source theHarvesterEnvironment/bin/activate
(theHarvesterEnvironment) michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/theHarvester$
```



```
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/theHarvester
etaddata (6.6 kB)
Collecting mdurl==0.1 (from markdown-it-py>=2.2.0->rich>=10.16.2->censys==2.2.14->-r requirements/base.txt (line 7))
  Downloading mdurl-0.1.2-py3-none-any.whl.metadata (1.6 kB)
  Downloading aiodns-3.2.0-py3-none-any.whl (5.7 kB)
  Downloading aiofiles-24.1.0-py3-none-any.whl (15 kB)
  Downloading aiohttp-3.10.8-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (1.3 MB)
    1.3/1.3 MB 2.3 MB/s eta 0:00:00
  Downloading aiomultiprocess-0.9.1-py3-none-any.whl (17 kB)
  Downloadingaiosqlite-0.20.0-py3-none-any.whl (15 kB)
  Downloading beautifulsoup4-4.12.3-py3-none-any.whl (147 kB)
    147.9/147.9 kB 24.4 MB/s eta 0:00:00
  Downloading censys-2.2.14-py3-none-any.whl (79 kB)
    79.2/79.2 kB 12.1 MB/s eta 0:00:00
  Using cached certifi-2024.8.30-py3-none-any.whl (167 kB)
  Using cached dnspython-2.7.0-py3-none-any.whl (313 kB)
  Downloading fastapi-0.115.0-py3-none-any.whl (94 kB)
    94.6/94.6 kB 11.7 MB/s eta 0:00:00
  Using cached lxml-5.3.0-cp312-cp312-manylinux_2_28_x86_64.whl (4.9 MB)
  Downloading netaddr-1.3.0-py3-none-any.whl (2.3 MB)
    2.3/2.3 MB 1.4 MB/s eta 0:00:00
  Downloading ujson-5.10.0-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (53 kB)
    53.7/53.7 kB 5.6 MB/s eta 0:00:00
  Downloading playwright-1.47.0-py3-none-any.whl (38.1 MB)
    10.6/38.1 MB 1.3 MB/s eta 0:00:22
```

```

michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/theHarvester
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$ git clone https://github.com/laramies/theHarvester.git
Cloning into 'theHarvester'...
remote: Enumerating objects: 15000, done.
remote: Counting objects: 100% (2568/2568), done.
remote: Compressing objects: 100% (406/406), done.
remote: Total 15000 (delta 2366), reused 2265 (delta 2162), pack-reused 12432 (from 1)
Receiving objects: 100% (15000/15000), 7.75 MiB | 1.48 MiB/s, done.
Resolving deltas: 100% (9531/9531), done.
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs$ cd theHarvester
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/theHarvester$ python3 -m venv theHarvesterEnvironment
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/theHarvester$ source theHarvesterEnvironment/bin/activate
(theHarvesterEnvironment) michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/theHarvester$ pip install -r requirements.txt
Ignoring winloop: markers 'platform_system == "Windows"' don't match your environment
Collecting aiodns==3.2.0 (from -r requirements/base.txt (line 1))
  WARNING: Retrying (Retry(total=4, connect=None, read=None, redirect=None, status=None)) after connection broken by 'NewConnectionError('<pip._vendor.urllib3.connection.HTTPSConnection object at 0x7efb1c2be900>: Failed to establish a new connection: [Errno 101] Network is unreachable')': /packages/15/14/13c65b1bd59f7e707e0cc0964fbab45c003f90292ed267d159eeaaa2224/aiodns-3.2.0-py3-none-any.whl.metadata
  Downloading aiodns-3.2.0-py3-none-any.whl.metadata (4.0 kB)
Collecting aiofiles==24.1.0 (from -r requirements/base.txt (line 2))
  Downloading aiofiles-24.1.0-py3-none-any.whl.metadata (10 kB)
Collecting aiohttp==3.10.8 (from -r requirements/base.txt (line 3))

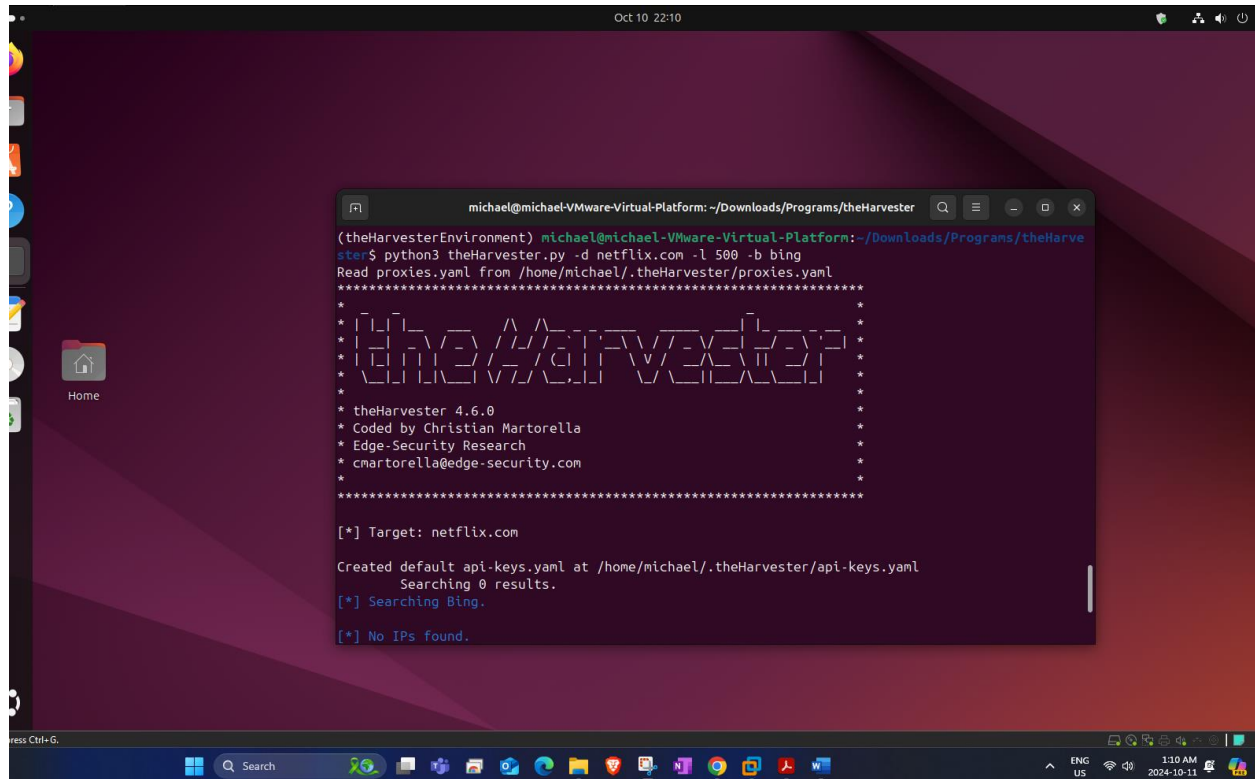
```

```

michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/theHarvester

Created wheel for shodan: filename=shodan-1.31.0-py3-none-any.whl size=49256 sha256=43cda21e33e7d431f9ba5d45c36e5fe1d91b0140c034f7ddd0cc721d9da0bc7c
Stored in directory: /home/michael/.cache/pip/wheels/23/e4/22/49cfc4cf9f7654abef2daba60bfaeb414c1101a2a819373016
Successfully built shodan
Installing collected packages: XlsxWriter, wrapt, uvloop, urllib3, ujson, typing_extensions, soupsieve, sniffio, six, PyYAML, pygments, pycparser, propcache, packaging, netaddr, multidict, mdurl, lxml, importlib-resources, idna, h11, greenlet, frozenlist, filelock, dnspython, colorama, click, charset-normalizer, certifi, backoff, attrs, argcomplete, annotated-types, aiomultiprocess, aiohappyeyeballs, aiofiles, yarl, uvicorn, retrying, requests, python-dateutil, pyee, pydantic-core, markdown-it-py, deprecated, click-plugins, cffi, BeautifulSoup4, anyio, aiosqlite, aiohttp, starlette, rich, requests-file, pydantic, pycar, playwright, limits, aiohttp, tldextract, slowapi, fastapi, censys, aioldns, shodan
Successfully installed PyYAML-6.0.2 XlsxWriter-3.2.0 aioldns-3.2.0 aiofiles-24.1.0 aiohappyeyeballs-2.4.3 aiohttp-3.10.8 aiomultiprocess-0.9.1 aiosignal-1.3.1 aiosqlite-0.20.0 annotated-types-0.7.0 anyio-4.6.0 argcomplete-3.5.1 attrs-24.2.0 backoff-2.2.1 BeautifulSoup4-4.12.3 censys-2.2.14 certifi-2024.8.30 cffi-1.17.1 charset-normalizer-3.4.0 click-8.1.7 click-plugins-1.1.1 colorama-0.4.6 deprecated-1.2.14 dnspython-2.7.0 fastapi-0.115.0 filelock-3.16.1 frozenlist-1.4.1 greenlet-3.0.3 h11-0.14.0 idna-3.10 importlib-resources-6.4.5 limits-3.13.0 lxml-5.3.0 markdown-it-py-3.0.0 mdurl-0.1.2 multidict-6.1.0 netaddr-1.3.0 packaging-24.1 playwright-1.47.0 propcache-0.2.0 pycar-4.4.0 pycparser-2.22 pydantic-2.9.2 pydantic-core-2.23.4 pyee-12.0.0 pygments-2.18.0 python-dateutil-2.9.0.post0 requests-2.32.3 requests-file-2.1.0 retrying-1.3.4 rich-13.9.2 shodan-1.31.0 six-1.16.0 slowapi-0.1.9 sniffio-1.3.1 soupsieve-2.6 starlette-0.38.6 tldextract-5.1.2 typing_extensions-4.12.2 ujson-5.10.0 urllib3-2.2.3 uvicorn-0.31.0 uvloop-0.20.0 wrapt-1.16.0 yarl-1.14.0
(theHarvesterEnvironment) michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/theHarvester$ ls
bin                pyproject.toml    requirements      tests              theHarvester-logo.png
docker-compose.yml README            requirements.txt  theHarvester      theHarvester-logo.webp
Dockerfile         README.md         restfulHarvest.py theHarvesterEnvironment theHarvester.py
(theHarvesterEnvironment) michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/theHarvester$

```



The screenshot shows a Windows 10 desktop environment. A terminal window is open, displaying the output of theHarvester tool. The terminal title is "michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/theHarvester". The command executed is "python3 theHarvester.py -d netflix.com -l 500 -b Bing". The output shows the tool reading proxies from a file, displaying a ASCII art logo for "theHarvester", and then searching for results on Bing. The search results show "No IPs found".

```
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/theHarvester
(theHarvesterEnvironment) michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/theHarvester$ python3 theHarvester.py -d netflix.com -l 500 -b Bing
Read proxies.yaml from /home/michael/.theHarvester/proxies.yaml
*****
* theHarvester 4.6.0 *
* Coded by Christian Martorella *
* Edge-Security Research *
* cmartorella@edge-security.com *
*****

[*] Target: netflix.com

Created default api-keys.yaml at /home/michael/.theHarvester/api-keys.yaml
Searching 0 results.
[*] Searching Bing.
[*] No IPs found.
```

Install Additional Dependencies

```

michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/theHarvester$ python3 -m venv theHarvesterEnvironment
michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/theHarvester$ source theHarvesterEnvironment/bin/activate
(theHarvesterEnvironment) michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/theHarvester$ pip install webscreenshot
Collecting webscreenshot
  Downloading webscreenshot-2.94.tar.gz (28 kB)
    Installing build dependencies ... done
    Getting requirements to build wheel ... done
    Preparing metadata (pyproject.toml) ... done
Collecting argparse (from webscreenshot)
  Using cached argparse-1.4.0-py2.py3-none-any.whl.metadata (2.8 kB)
Collecting future (from webscreenshot)
  Downloading future-1.0.0-py3-none-any.whl.metadata (4.0 kB)
Using cached argparse-1.4.0-py2.py3-none-any.whl (23 kB)
Downloading future-1.0.0-py3-none-any.whl (491 kB)
491.3/491.3 kB 1.4 MB/s eta 0:00:00
Building wheels for collected packages: webscreenshot
  Building wheel for webscreenshot (pyproject.toml) ... done
  Created wheel for webscreenshot: filename=webscreenshot-2.94-py3-none-any.whl size=26783 sha256=94f76e1d64a13f5ed62c827991a6
  9c0d111c072aa4cf0c9db399930f29e4e84
  Stored in directory: /home/michael/.cache/pip/wheels/fe/43/a6/6d3cd4b428a61b873ea97194f5f39c58bc2c44e2cf422db167
Successfully built webscreenshot
Installing collected packages: argparse, future, webscreenshot
Successfully installed argparse-1.4.0 future-1.0.0 webscreenshot-2.94
(theHarvesterEnvironment) michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/theHarvester$ pip install testresources
Collecting testresources
  Downloading testresources-2.0.1-py2.py3-none-any.whl.metadata (11 kB)
Collecting pbr>=1.8 (from testresources)
  Downloading pbr-6.1.0-py2.py3-none-any.whl.metadata (3.4 kB)
Downloading testresources-2.0.1-py2.py3-none-any.whl (36 kB)
Downloading pbr-6.1.0-py2.py3-none-any.whl (108 kB)

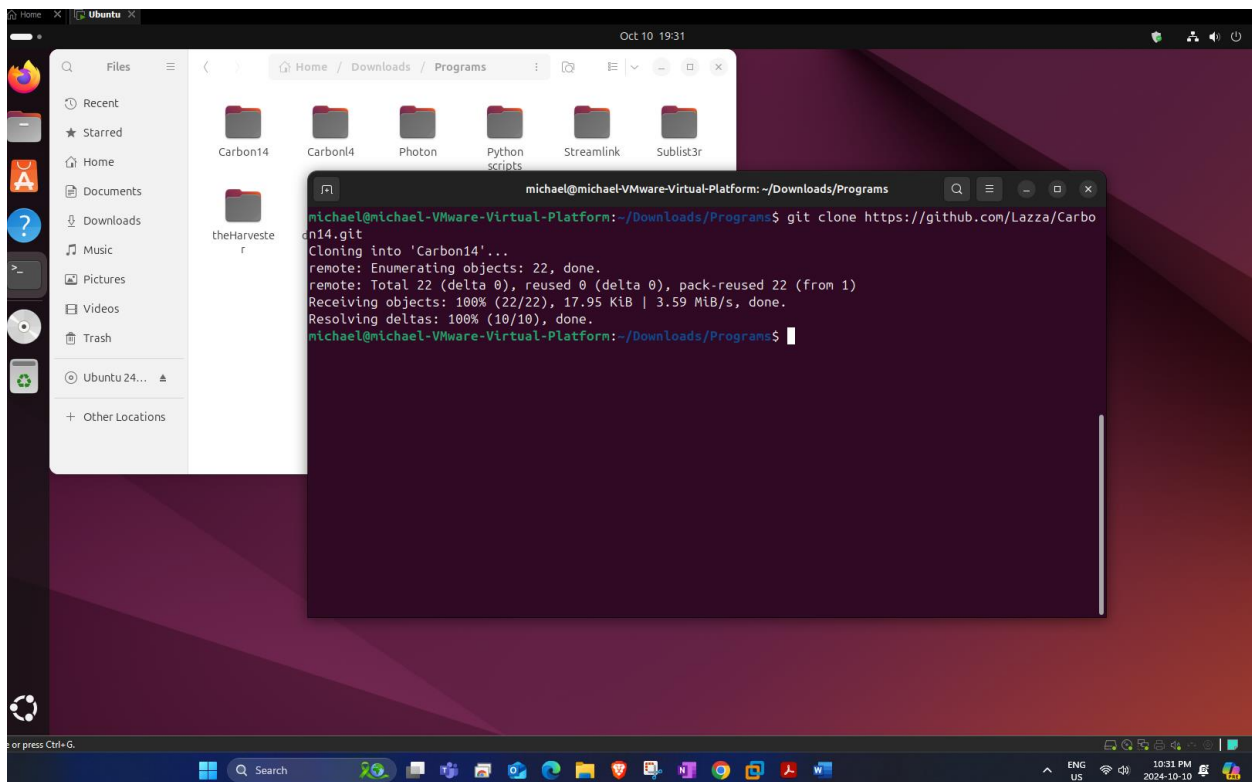
```

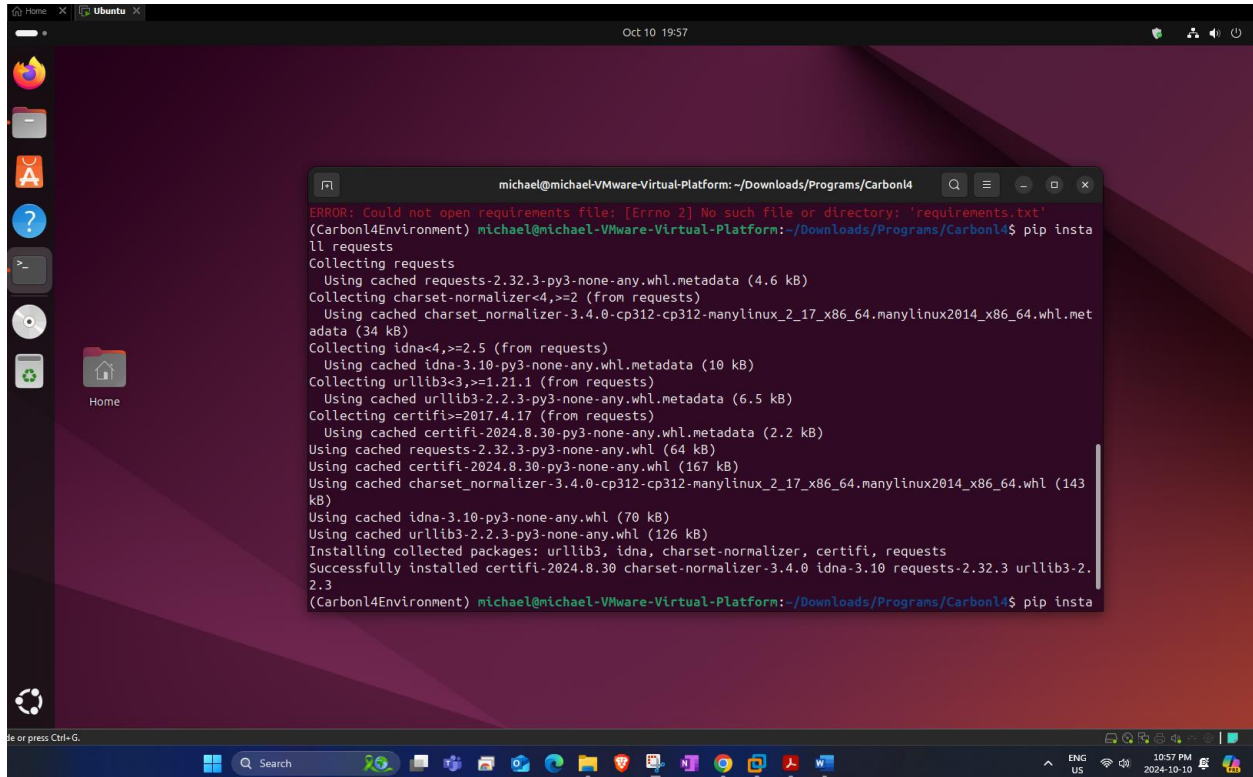
Install Carbonl4

Clone the Carbonl4 repository:

- Command: `git clone https://github.com/Lazza/Carbonl4.git`
- Explanation: Downloads Carbonl4 from GitHub.
- Create a virtual environment for Carbonl4:
 - Command: `python3 -m venv Carbonl4Environment`
 - Explanation: Creates an isolated Python environment for Carbonl4.
- Activate the Carbonl4 environment:
 - Command: `source Carbonl4Environment/bin/activate`

- Explanation: Activates the Carbonl4 virtual environment.
 - Install Carbonl4 dependencies:
- Command: `pip install -r requirements.txt`
- Explanation: Installs necessary Python packages for Carbonl4.
 - Deactivate the Carbonl4 environment:
- Command: `deactivate`
- Explanation: Deactivates the virtual environment.





```
michael@michael-VMware-Virtual-Platform: ~/Downloads/Programs/Carbon14
ERROR: Could not open requirements file: [Errno 2] No such file or directory: 'requirements.txt'
(Carbon14Environment) michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/Carbon14$ pip install requests
Collecting requests
  Using cached requests-2.32.3-py3-none-any.whl.metadata (4.6 kB)
Collecting charset-normalizer<4,>=2 (from requests)
  Using cached charset_normalizer-3.4.0-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (34 kB)
Collecting idna<4,>=2.5 (from requests)
  Using cached idna-3.10-py3-none-any.whl.metadata (10 kB)
Collecting urllib3<3,>=1.21.1 (from requests)
  Using cached urllib3-2.2.3-py3-none-any.whl.metadata (6.5 kB)
Collecting certifi<=2017.4.17 (from requests)
  Using cached certifi-2024.8.30-py3-none-any.whl.metadata (2.2 kB)
Using cached requests-2.32.3-py3-none-any.whl (64 kB)
Using cached certifi-2024.8.30-py3-none-any.whl (167 kB)
Using cached charset_normalizer-3.4.0-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (143 kB)
Using cached idna-3.10-py3-none-any.whl (70 kB)
Using cached urllib3-2.2.3-py3-none-any.whl (126 kB)
Installing collected packages: urllib3, idna, charset-normalizer, certifi, requests
Successfully installed certifi-2024.8.30 charset-normalizer-3.4.0 idna-3.10 requests-2.32.3 urllib3-2.3
(Carbon14Environment) michael@michael-VMware-Virtual-Platform:~/Downloads/Programs/Carbon14$ pip install
```