

Hands on Practice on Reconnaissance Tool

theHarvester

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Task #1 :

Verify the tool

Command:

theHarvester --version

Screen Shot:

Explanation:

We can check the Version of the harvester if it is install it will show the current version of the harvester if it is not install then use (`sudo apt install theHarvester -y`) to install it.

Task#2:

Discover Subdomains from Certificate Logs

Command:

theHarvester -d eccouncil.org -l 100 -b crtsh

Screenshot:

```
[root@kali]~[/home/kali]
# theHarvester -d eccouncil.org -l 100 -b crtsh
Read proxies.yaml from /etc/theHarvester/proxies.yaml
*****
* [THE] HARVESTER [F]*****
* theHarvester 4.9.2
* Coded by Christian Martorella
* Edge-Security Research
* cmartorella@edge-security.com
*
*****
[*] Target: eccouncil.org
[*] Searching CRTsh.
[*] No IPs found.
[*] No emails found.
[*] No people found.
[*] Hosts found: 90
-----
66trainingllcservices.eccouncil.org
accesscomputertraining.eccouncil.org
affiliate.eccouncil.org
affiliates.eccouncil.org
aletheiasolutionsinc.eccouncil.org
aptechqatarcomputereducationcentre.eccouncil.org
blog.eccouncil.org
campaign.eccouncil.org
campaigns.eccouncil.org
captivasolutions.eccouncil.org
cdn.eccouncil.org
cdsolutions.eccouncil.org
cert.eccouncil.org
certblog.eccouncil.org
```

Explanation:

By using command of crtsh we can discover the subdomains of the target

Task#3:

Gather Passive DNS Information

Command:

theHarvester -d eccouncil.org -l 50 -b rapiddns

Screenshot:

```
└─(root㉿kali)─[/home/kali]
  # theHarvester -d eccouncil.org -l 50 -b rapiddns
  Read proxies.yaml from /etc/theHarvester/proxies.yaml
  ****
  *
  * [REDACTED]*****
  *
  * theHarvester 4.9.2
  * Coded by Christian Martorella
  * Edge-Security Research
  * cmartorella@edge-security.com
  *
  ****
  [*] Target: eccouncil.org
  [*] Searching Rapiddns.
  [*] No IPs found.
  [*] No emails found.
  [*] No people found.
  [*] Hosts found: 87
  aspen-test.eccouncil.org:104.18.8.180
  aspen-test.eccouncil.org:104.18.9.180
  aspen-test.eccouncil.org:2606:4700::6812:8b4
  aspen-test.eccouncil.org:2606:4700::6812:9b4
  aspen-test.eccouncil.org:8.47.69.6
  aspen-test.eccouncil.org:8.6.112.6
  aspenadmin.eccouncil.org:104.18.8.180
  aspenadmin.eccouncil.org:104.18.9.180
  aspenadmin.eccouncil.org:2a06:98c1:3122:8000::
  aspenadmin.eccouncil.org:2a06:98c1:3123:8000::
  aspen-test.eccouncil.org:104.18.8.180
  aware-dev.eccouncil.org:104.18.8.180
  aware-dev.eccouncil.org:104.18.9.180
  aware-dev.eccouncil.org:2606:4700::6812:8b4
```

New Findings:

Comparing the result of task 3 with task 2 we manage to find the some new subdomains and Ip's as well.

aspen-test.eccouncil.org:104.18.8.180 aspen-test.eccouncil.org:104.18.9.180 aspen-test.eccouncil.org:2606:4700::6812:8b4 aspen-test.eccouncil.org:2606:4700::6812:9b4 aspen-test.eccouncil.org:8.47.69.6 aspen-test.eccouncil.org:8.6.112.6 aspenadmin.eccouncil.org:104.18.8.180 aspenadmin.eccouncil.org:104.18.9.180 aspenadmin.eccouncil.org:2a06:98c1:3122:8000:: aspenadmin.eccouncil.org:2a06:98c1:3123:8000::

Task#4:

Resolve Discovered Hosts to IP Addresses

Command:

theHarvester -d eccouncil.org -b crtsh -r

Screenshot:

Explanation:

We have discovered some hosts along with their Ip addresses.

- I. connect.eccouncil.org → 104.17.202.31
 - II. cdn.eccouncil.org → 108.139.86.10
 - III. labs.eccouncil.org → 40.114.68.21

Task#5:

Export the Reconnaissance Report

Command:

```
theHarvester -d eccouncil.org -b crtsh -f eccouncil_report
```

Screenshot:

Explanation:

So by using -f command we can export all the subdomains and ips in just 1 Json file .

why passive reconnaissance is difficult to detect.

Passive reconnaissance is difficult to detect because it totally rely on the information available over the internet so attacker is not targeting any organization or individual just gather information over the internet and target remain unaware where someone is gathering information against them or not .