Recon-ng

Objective:

Learn how to find WHOIS information on a target domain-name with Recon-ng.

Purpose:

WHOIS information can consist of location, registration and expire dates, contact information (email, phone numbers, etc.) and more about domain-name. The purpose of this lab is to use recon-ng to automate the discovery of this information.

Tool:

Kali Linux

Topology:

You can use Kali Linux in a virtual machine for the purpose of this lab.

Walkthrough:

Task 1:

Begin this lab by opening Kali Linux within your virtual machine. Then, as root user, open a terminal and type:

recon-ng

Task 2:

recon-ng offers the opportunity for users to create different workstations based on their project needs. For this lab, we will be gathering WHOIS information. So, create a new lab by typing the following:

workspaces create whois_recon

```
[recon-ng][default] > workspaces create whois_recon
[recon-ng][whois_recon] >
```

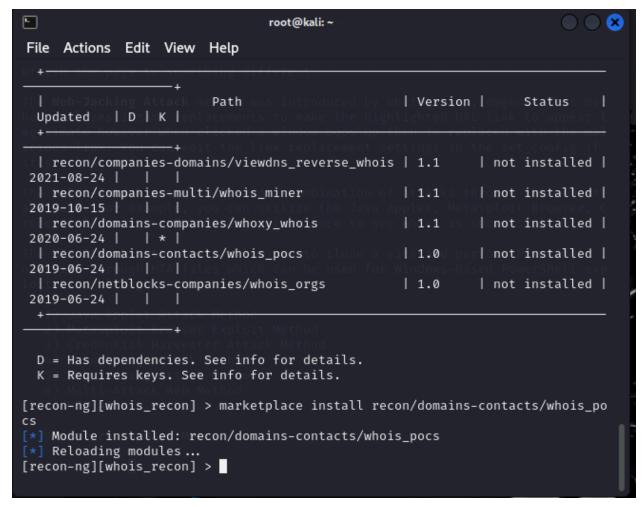
Task 3:

We will begin by gathering WHOIS information about a target domain-name. Since WHOIS information is available to anyone, it is ok to do this for any domain. The domain we will be targeting is, once again, "facebook.com", but you can do this lab for any other domain you wish.

We will need to install modules from the marketplace to search for WHOIS information. We will begin by searching WHOIS for all related information regarding a target site. To do this, we first need to install the WHOIS search module. To do this, type:

marketplace search whois

We want to install the fourth option, which is "recon/domains-contacts/whois_pocs". To do this, type:



marketplace install recon/domains-contacts/whois_pocs

To begin searching, we first need to set the source by typing:

options set SOURCE facebook.com

To load the module for use, type:

modules load recon/domains-contacts/whois_pocs

```
root@kali: ~
File Actions Edit View Help
[*] Reloading modules ...
[recon-ng][whois_recon] > modules load recon/domains-contacts/whois_pocs
[recon-ng][whois_recon][whois_pocs] > options set SOURCE facebook.com
SOURCE ⇒ facebook.com
[recon-ng][whois_recon][whois_pocs] > info
      Name: Whois POC Harvester
    Author: Tim Tomes (@lanmaster53)
   Version: 1.0
Description:
  Uses the ARIN Whois RWS to harvest POC data from whois queries for the give
n domain. Updates the
  'contacts' table with the results.
Options:
          Current Value Required Description
  Name
                                      source of input (see 'info' for details)
  SOURCE facebook.com yes
Source Options:
                  SELECT DISTINCT domain FROM domains WHERE domain IS NOT NULL
  defaultti
  <string> string representing a single input
<path> path to a file containing a list of inputs
<path> path to a file containing one column of inputs
  query <sql> database query returning one column of inputs
[recon-ng][whois_recon][whois_pocs] >
```

Then, to see information about this module and how it is used, type "info" and hit enter.

We are now ready to search WHOIS for information regarding "facebook.com". Simply type "run" and hit enter to begin the search.

As you will see, various contact and location information will show up for facebook.com. This information will be automatically saved in our workstation.

```
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                                 root@kali: ~
File Actions Edit View Help
[*] URL: http://whois.arin.net/rest/pocs;domain=facebook.com
[*] URL: http://whois.arin.net/rest/poc/BST184-ARIN
[*] Country: United States
[*] Email: bstout@facebook.com
[*]:First_Name: Brandon
[*] Last_Name: Stout
[*] Middle_Name: None
[*] Notes: None
*] Phone: None
*] Region: Chicago, IL
* Title: Whois contact
URL: http://whois.arin.net/rest/poc/OPERA82-ARIN
[*] Country: United States
[*] Email: domain@facebook.com
[*] First_Name: None
[*] Last_Name: Operations
[*] Middle_Name: None
[*] Notes: None
[*] Phone: None
[*] Region: Menlo Park, CA
[*] Title: Whois contact
SUMMARY
```

Task 4:

We will now attempt to discover as many subdomains as possible, with their IPv4 address for facebook.com, using HackerTarget.com API. We will need to import the "hackertarget" module, as we did previously for whois pocs.

Before we do this, you should first type "back" and press enter to quit out of the whois_pocs module. We will begin by searching the marketplace for "hackertarget" modules using:

marketplace search hackertarget

Only one option should show, which is "recon/domains-hosts/hackertarget". You can highlight this option and press ctrl + shift + c to copy the path to the module. You can paste using ctrl + shift + v. To install the module use:

marketplace install recon/domains-hosts/hackertarget

We then want to load the module using:

modules load recon/domains-hosts/hackertarget

We are now ready to begin searching HackerTarget for subdomain information regarding Facebook. First, set the source by typing:

options set SOURCE facebook.com

If you want to see some information around what this module is used for and how, simply type "info" and hit enter.

```
[recon-ng][wnois_recon][nackertarget] > options set 500ktE facebook.com
SOURCE ⇒ facebook.com
[recon-ng][whois_recon][hackertarget] > info
       Name: HackerTarget Lookup
    Author: Michael Henriksen (@michenriksen)
   Version: 1.1
Description:
  Uses the HackerTarget.com API to find host names. Updates the 'hosts' table
with the results.
Options:
  Name Current Value Required Description
                                           source of input (see 'info' for details)
  SOURCE facebook.com ves
Source Options:
 default SELECT DISTINCT domain FROM domains WHERE domain IS NOT NULL
<string> string representing a single input
<path> path to a file containing a list of inputs
query <sql> database query returning one column of inputs
[recon-ng][whois_recon][hackertarget] >
```

Task 5:

Once this is done, type "run" and hit enter. You will notice a list of various subdomains associated with facebook.com appearing.

