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PENTESTER ACADEMY TOOL BOX

TRAINING

Name	Directory Enumeration with Opendoor
URL	https://.attackdefense.com/challengedetails?cid=1884
Туре	Webapp Pentesting Basics

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Objective: Perform directory enumeration with Opendoor

Solution:

Step 1: Start a terminal and check the IP address of the host.

Command: ip addr

```
root@attackdefense:~# ip addr
1: lo: <L00PBACK,UP,L0WER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
24861: eth0@if24862: <BROADCAST,MULTICAST,UP,L0WER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:0a:01:01:05 brd ff:ff:ff:ff:ff link-netnsid 0
    inet 10.1.1.5/24 brd 10.1.1.255 scope global eth0
        valid_lft forever preferred_lft forever
24864: eth1@if24865: <BROADCAST,MULTICAST,UP,L0WER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:c0:9c:cf:02 brd ff:ff:ff:ff:ff link-netnsid 0
    inet 192.156.207.2/24 brd 192.156.207.255 scope global eth1
        valid_lft forever preferred_lft forever
root@attackdefense:~#
```

Step 2: Run Nmap scan on the target IP to find open ports.

Note: The target IP will be 192.156.207.3

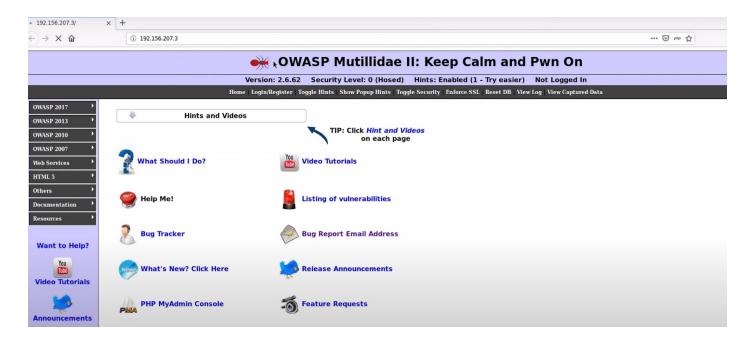
Command: nmap 192.156.207.3

```
root@attackdefense:~# nmap 192.156.207.3
Starting Nmap 7.70 ( https://nmap.org ) at 2020-05-19 18:57 IST
Nmap scan report for target-1 (192.156.207.3)
Host is up (0.000013s latency).
Not shown: 998 closed ports
PORT STATE SERVICE
80/tcp open http
3306/tcp open mysql
MAC Address: 02:42:C0:9C:CF:03 (Unknown)

Nmap done: 1 IP address (1 host up) scanned in 0.21 seconds
root@attackdefense:~#
```

Port 80 and Port 3306 are open

Step 3: Start firefox and navigate to the target IP.



An instance of Mutillidae is running at port 80 of the target.

Step 4: Start a terminal and run the opendoor command to get the available options in the opendoor tool.

Command: opendoor

```
root@attackdefense:~# opendoor
usage: opendoor [-h] [--host HOST] [-p PORT] [-m METHOD] [-t THREADS]
[-d DELAY] [--timeout TIMEOUT] [-r RETRIES] [--accept-cookies]
                 [--debug DEBUG] [--tor] [--torlist TORLIST] [--proxy PROXY]
                 [-s SCAN] [-w WORDLIST] [--reports REPORTS]
                 [--reports-dir REPORTS_DIR] [--random-agent] [--random-list]
                 [--prefix PREFIX] [-e EXTENSIONS] [-i IGNORE EXTENSIONS]
                 [--sniff SNIFF] [--update] [--version] [--examples] [--docs]
                 [--wizard [WIZARD]]
optional arguments:
  -h, --help
                         show this help message and exit
required named options:
  --host HOST
                         Target host (ip); --host http://example.com
Application tools:
  --update
                         Update from CVS
  --version
                         Get current version
  --examples
                         Examples of usage
  --docs
                         Read documentation
  --wizard [WIZARD]
                         Run wizard scanner from your config
Debug tools:
                         Debug level 1 - 3
  --debug DEBUG
Reports tools:
  --reports REPORTS
                         Scan reports (json,std,txt,html)
  --reports-dir REPORTS DIR
                         Path to custom reports dir
Request tools:
  -p PORT, --port PORT Custom port (Default 80)
  -m METHOD, --method METHOD
```

Step 5: Run the Opendoor scan while passing all the required arguments such as URL, wordlist.

Command: opendoor --host http://192.156.207.3 -s directories -w /usr/share/wordlists/dirb/common.txt

Note: The --host flag is used to define the target URL. -s flag is used to specify the scan mode which in this case is directories. -w flag is used to define the wordlist with its full path.

```
root@attackdefense:~# opendoor --host http://192.156.207.3 -s directories -w /usr/share/wordlists/dirb/common.txt
Use --report param to store your scan results
                   Wait, please, checking connect to -> 192.156.207.3:80 ...
                   Scanning 192.156.207.3 ...
                  0.0% [0001/4614] - 0B - 0K http://192.156.207.3/
         info
                  0.2% [0009/4614] - 23B - OK http://192.156.207.3/.git/HEAD
                  0.2% [0011/4614] - 0B - Denied http://192.156.207.3/.hta
0.3% [0012/4614] - 0B - Denied http://192.156.207.3/.htaccess
                   0.3% [0013/4614] - 0B - Denied http://192.156.207.3/.httpasswd
                   8.0% [0371/4614] - 0B -
                   17.8% [0820/4614] - 0B - Denied http://192.156.207.3/cgi-bin/
                   19.2% [0885/4614] ¶- 0B - 21.5% [0994/4614] - 0B -
                   25.1% [1158/4614] - 0B - 28.7% [1324/4614] - 0B -
                         [1991/4614] - OB
```

Note: The blue links represent the redirection (status code 302) whereas the green represents success (status code 200).

```
46.5% [2144/4614] - 0B -
                   49.4% [2281/4614] - 10KB - 0K http://192.156.207.3/LICENSE
        ] info
                   62.2% [2868/4614] - 0B -
                  63.8% [2945/4614] - OB - OK http://192.156.207.3/phpinfo.php
                   64.0% [2953/4614] - 0B -
        linfo
                   74.4% [3435/4614] - 126B - OK http://192.156.207.3/robots.txt
                   77.7% [3587/4614] - OB - Denied http://192.156.207.3/server-status
        1 info
                   84.0% [3877/4614] - 0B -
                   86.8% [4007/4614] - 0B
        ] info
        info
                   95.7% [4414/4614] - 0B -
                   100.0% [4613/4614] - 0B - http://192.156.207.3/zt
        info
 Statistics (192.156.207.3)
                                  Summary
 success
                                     4590
 failed
 forbidden
                                       13
 redirect
 ignored
 items
                                     4614
 workers
root@attackdefense:~#
```

The summary of the scan is displayed.

Step 6: Run the Opendoor scan while checking for PHP scripts, text files and XML files on the target.

Command: opendoor --host http://192.156.207.3 -s directories -w /usr/share/wordlists/dirb/common.txt -e php,txt.xml

Note: The -e parameter is used to specify the file extensions which has to be checked on the target.

```
root@attackdefense:~# opendoor --host http://192.156.207.3 -s directories -w /usr/share/wordlists/dirb/common.txt -e php,txt,xml
1 info
                  Wait, please, checking connect to -> 192.156.207.3:80 ...
                  Scanning 192.156.207.3 ...
        ] info
                 0.2% [0013/8334] - 0B - Denied http://192.156.207.3/.ht_wsr.txt
0.2% [0014/8334] - 0B - Denied http://192.156.207.3/.htaccess.t
        ] info
                  1.7% [0145/8334] - 0B - http://192.156.207.3/3x.php
        linfo
                  31.1% [2591/8334] - OB - Denied http://192.156.207.3/cgi-bin/logi.php
                  31.1% [2592/8334] - 0B - Denied
                  45.2% [3766/8334] - 0B - http://192.156.207.3/err.php [
                  55.4% [4618/8334] - 0B - http://192.156.207.3/index.inc.php
                  56.7% [4729/8334] - OB - OK http://192.156.207.3/installation.ph
                    73.1% [6094/8334] - 0B - OK http://192.156.207.3/phpinfo.php
                    73.3% [6108/8334] - 0B - OK http://192.156.207.3/phpmyadmin/phpinfo.php
                    79.7% [6639/8334] - 190B - OK http://192.156.207.3/robots.txt
                    100.0% [8331/8334] - OB - http://192.156.207.3/privat24.txt
  Statistics (192.156.207.3)
                                   Summary
```

8323

8334

4

failed

items

workers

root@attackdefense:~#

forbidden ignored The file names from the server are retrieved and can be seen in the green text.

Step 7: Scan the '/data' directory with the opendoor also check for the PHP scripts, text files and XML files.

Command: opendoor --host http://192.156.207.3 -s directories -w /usr/share/wordlists/dirb/common.txt -e php,txt.xml --prefix data/

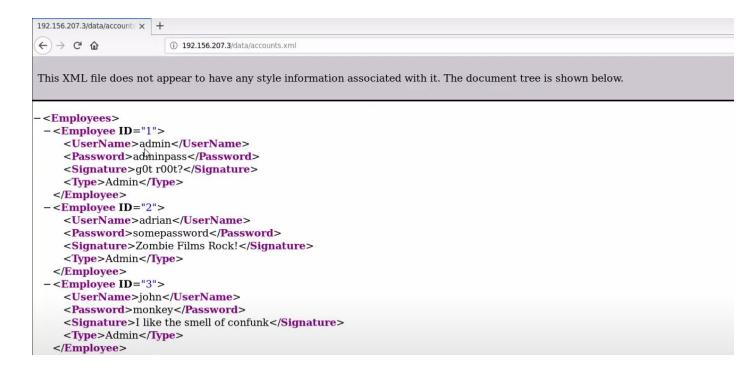
Note: The --prefix flag is used to append the target URL with the specified directory.

```
oot@attackdefense:~# opendoor --host http://192.156.207.3 -s directories -w /usr/share/wordlists/dirb/common.txt -e php,txt,xml --prefix data/
Wait, please, checking connect to -> 192.156.207.3:80 ...
        ] info
                 Server 192.156.207.3:80 (192.156.207.3) is online!
                 Scanning 192.156.207.3 ...
               0.2% [0013/8334] - 0B - Denied http://192.156.207.3/data/.ht_wsr.txt
                 0.2% [0014/8334] - 0B - Denied http://192.156.207.3/data/.htaccess.txt
14.6% [1220/8334] - 731B - 0K http://192.156.207.3/data/accounts.xml
        1 info
                 100.0% [8334/8334] - 0B - http://192.156.207.3/data/privat24.txt
 Statistics (192.156.207.3) | Summary |
 failed
 forbidden
 success
 items
                                  8334
```

There is a file "accounts.xml" inside the data directory.

Step 8: Navigate to the accounts.xml file and check its content.

URL: http://192.156.207.3/data/accounts.xml



The login credentials have been revealed in the accounts.xml file.

Step 9: Scan the '/data' directory with the opendoor also check for the PHP scripts, text files and XML files as well as save the results in HTML file.

Command: opendoor --host http://192.156.207.3 -s directories -w /usr/share/wordlists/dirb/common.txt -e php,txt.xml --prefix data/ --reports html

Note: The --reports flag is to tell which reporting format to be used. The available reporting formats are json, html, text.

Step 10: Check the available results which are stored inside the reports directory.

Commands:

ls

Is -I reports/

Is -I reports/192.156.207.3/

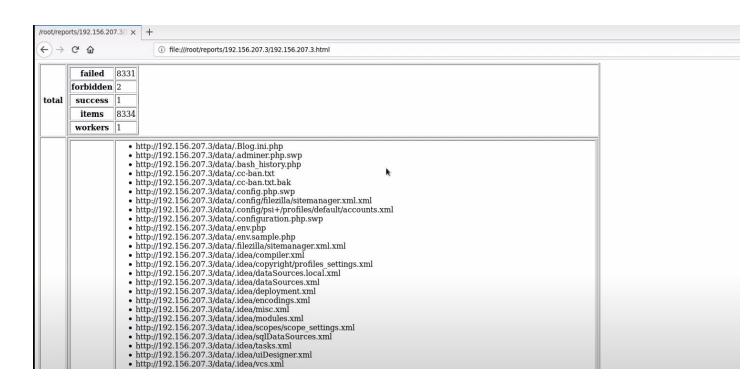
```
root@attackdefense:~# ls

Desktop dirb.output reports thinclient_drives tmp
root@attackdefense:~# ls -l reports/
total 4

drwxr-xr-x 2 root root 4096 May 20 18:17 192.156.207.3
root@attackdefense:~#
root@attackdefense:~# ls -l reports/192.156.207.3/
total 404
-rw-r--r-- 1 root root 410295 May 20 18:17 192.156.207.3.html
root@attackdefense:~#
```

Step 11: Open the 192.156.207.3.html file in the firefox browser.

URL: file:///root/reports/192.156.207.3/192.156.207.3.html



The output of the scan is saved successfully in the HTML file.

References:

- 1. Opendoor (https://opendoor.readthedocs.io/Usage/)
- 2. Mutillidae (https://sourceforge.net/projects/mutillidae/)