

[illegible]

<b>Name</b>	Directory Enumeration with Opendoor
<b>URL</b>	<a href="https://.attackdefense.com/challengedetails?cid=1884">https://.attackdefense.com/challengedetails?cid=1884</a>
<b>Type</b>	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: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
24861: eth0@if24862: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:0a:01:01:05 brd ff: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,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:c0:9c:cf:02 brd ff: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

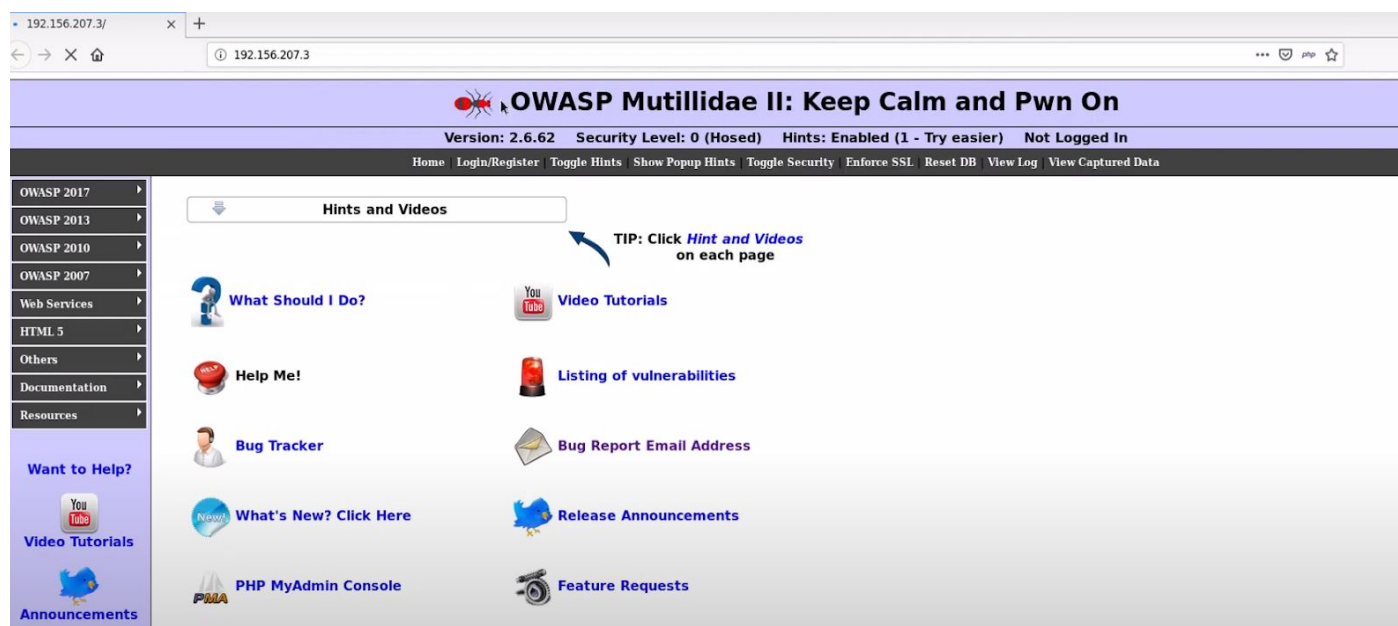
**Command:** nmap 192.156.207.3

```
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 DEBUG        Debug level 1 - 3

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
                        Request method (use HEAD as default)
```

**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.







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

```
root@attackbox:~# openporo --host http://192.156.207.3 -s directories -w /usr/share/wordlists/dirb/common.txt -e php,txt,xml --prefix data/
#####
# #
# #
# ( ) ( ) \ ( ) \ ( ) \ ( ) \ ( ) \ ( ) \ #
# ) ( ) _/ ) _/ ) ( ) _/ ) ( ) _/ ) ( ) _/ #
# ( ) ( ) ( ) ( ) \ ( ) \ ( ) \ ( ) \ ( ) \ #
# #
# Directories: 86942 #
# Subdomains: 161016 #
# Routers: 112 #
# Proxies: 294 #
# Licenses: GNU General Public License #
#####
[ ] info Use --report param to store your scan results
[ ] info Wait, please, checking connect to -> 192.156.207.3:80 ...
[ ] info Server 192.156.207.3:80 (192.156.207.3) is online!
[ ] info Scanning 192.156.207.3 ...
[ ] info 0.2% [0013/8334] - 0B - Denied http://192.156.207.3/data/.ht_wsr.txt
[ ] info 0.2% [0014/8334] - 0B - Denied http://192.156.207.3/data/.htaccess.txt
[ ] info 14.6% [1220/8334] - 731B - OK http://192.156.207.3/data/accounts.xml
[ ] info 100.0% [8334/8334] - 0B - http://192.156.207.3/data/privat24.txt

+-----+
| Statistics (192.156.207.3) | Summary |
+-----+
| failed | 8331 |
| forbidden | 2 |
| success | 1 |
| items | 8334 |
| workers | 1 |
```

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



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.

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/root/reports/192.156.207.3/	
file:///root/reports/192.156.207.3/192.156.207.3.html	
total	failed 8331
	forbidden 2
	success 1
	items 8334
	workers 1
<ul style="list-style-type: none"> <li>• http://192.156.207.3/data/.Blog.ini.php</li> <li>• http://192.156.207.3/data/.adminer.php.swp</li> <li>• http://192.156.207.3/data/.bash_history.php</li> <li>• http://192.156.207.3/data/.cc-ban.txt</li> <li>• http://192.156.207.3/data/.cc-ban.txt.bak</li> <li>• http://192.156.207.3/data/.config.php.swp</li> <li>• http://192.156.207.3/data/.config/filezilla/sitemanager.xml.xml</li> <li>• http://192.156.207.3/data/.config/psi+/profiles/default/accounts.xml</li> <li>• http://192.156.207.3/data/.configuration.php.swp</li> <li>• http://192.156.207.3/data/.env.php</li> <li>• http://192.156.207.3/data/.env.sample.php</li> <li>• http://192.156.207.3/data/.filezilla/sitemanager.xml.xml</li> <li>• http://192.156.207.3/data/.idea/compiler.xml</li> <li>• http://192.156.207.3/data/.idea/copyright/profiles_settings.xml</li> <li>• http://192.156.207.3/data/.idea/dataSources.local.xml</li> <li>• http://192.156.207.3/data/.idea/dataSources.xml</li> <li>• http://192.156.207.3/data/.idea/deployment.xml</li> <li>• http://192.156.207.3/data/.idea/encodings.xml</li> <li>• http://192.156.207.3/data/.idea/misc.xml</li> <li>• http://192.156.207.3/data/.idea/modules.xml</li> <li>• http://192.156.207.3/data/.idea/scopes/scope_settings.xml</li> <li>• http://192.156.207.3/data/.idea/sqlDataSources.xml</li> <li>• http://192.156.207.3/data/.idea/tasks.xml</li> <li>• http://192.156.207.3/data/.idea/uiDesigner.xml</li> <li>• http://192.156.207.3/data/.idea/vcs.xml</li> </ul>	

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/>)