EXERCISE I

1. To perform DNS scan using "dnsenum" Tool and extract useful artifacts.

AIM:

To perform DNS scan using "dnsenum" Tool and extract useful artifacts.

ALGORITHM:

Step -1: Start the Process.

Step -2: Start the Virtual box Kali linux machine.

Step -3: Open the terminal app and start the disenum tool with the command and targeted URL:

>>> sudo dnsenum <URL>

Step -4: Write the full output in the observation.

Step -5: Stop the Process.

OUTPUT:

RESULT: Scanning for targeted URL with DNSENUM is done successfully.

EXERCISE II

2. To perform DNS scan using "dnsrecon" Tool and extract IP address of the server machine.

AIM:

To perform DNS scan using "dnsrecon" Tool and extract IP address of the server machine.

ALGORITHM:

Step - 1: Start the Process.

Step -2: Start the Virtual box Kali linux machine.

Step -3: Open the terminal app and start the disenum tool with the command and targeted URL:

>>>sudo dnsrecon -d <URL>

Step -4: Write the full output in the observation.

Step -5: Stop the Process.

OUTPUT:

RESULT: Scanning for targeted URL with DNSRECON is successfully done.

EXERCISE III

3. To perform Nmap Scan on the IP address of a server and find open ports.

AIM:

To perform Nmap Scan on the IP address of a server and find open ports.

ALGORITHM:

Step - 1: Start the Process.

Step -2: Start the Virtual box Kali linux machine.

Step -3: Open the terminal app and start the nmap tool with the command and targeted IP ADDRESS:

>>>sudo nmap -vv <IP ADDRESS>

Step -4: Use -sV tag for service enumeration.

>>>sudo nmap -vv -sV <IP_ADDRESS>

Step -5: Use -A tag for service enumeration.

>>>sudo nmap -vv -sV -A <IP ADDRESS>

Step -6: Use -O tag for service enumeration.

>>>sudo nmap -vv -sV -A -O <IP ADDRESS>

Step -7: Write the full output in the observation.

Step -8: Stop the Process.

OUTPUT:

RESULT: Nmap Scan on the IP address of a server and find open ports are successfully done.

EXERCISE IV

4. To perform Directory scan on the server with the tool "Gobuster".

AIM:

To perform Directory scan on the server with the tool "Gobuster".

ALGORITHM:

Step - 1: Start the Process.

Step -2: Start the Virtual box Kali linux machine.

Step -3: Open the terminal app and start the gobuster tool and targeted URL:

>>>sudo gobuster dir -u <<u>IP ADDRESS></u> -w /usr/share/wordlists/dirb/common.txt

Step -4: Write the full output in the observation.

Step -5: Stop the Process.

OUTPUT:

Write the output of the gobuster tool finding the database tables.

RESULT: Directory scan on the server is successfully done.



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EXERCISE V

5. To perform Intruder attack with BurpSuite.

AIM:

To perform Intruder attack with BurpSuite.

Step - 1: Start the Process.

Step -2: Start the Virtual box Kali linux machine.

Step -3: Open the Burpsuite with super user privilege for that type in the terminal:

>>>sudo burpsuite

Step – 4 : Navigate to Proxy :

>>>*Proxy*

Step -5: Select Intercept the Proxy:

>>>Proxy> Intercept on >

Step -6: Enter the target URL to be scanned in Search Engine:

>>> <*URL*>

Step -7: Configure with lightweight scanning.

Step -8: Write the Critical vulnerabilities in the Observation.

Step -9: Stop the Process.

OUTPUT:

RESULT:

Performing Intruder attack is successfully done.

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EXERCISE VI

6. To perform Web crawling with OWASP-ZAP.

AIM:

To perform Web crawling with OWASP-ZAP.

ALGORITHM:

Step -1: Start the Process.

Step – 2: Start the Virtual box Kali linux machine.

Step -3: Open the terminal app and start the ZAP tool and enter targeted URL:

Step -4: Write the full output in the observation.

Step -5: Stop the Process.

OUTPUT:

Write the directory the tool scanned for:

Write the files present in the database :

RESULT:

Web crawling with ZAP is performed successfully.

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EXERCISE VII

7. To perform exploit search with "search-sploit" tool.

AIM:

To perform exploit search with "search-sploit" tool.

ALGORITHM:

Step - 1: Start the Process.

Step -2: Start the Virtual box Kali linux machine.

Step -3: Open the terminal app and start the searchsploit tool with the comment:

>>>sudo searchsploit qdpm 9.2

Step -4: Write the output of the identified vulnerability in the Observation.

Step -5: Stop the Process.

OUTPUT:

RESULT: Exploit search with "search-sploit" tool is done successfully.

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www.ajkcas.com EXERCISE VIII

8. To perform Protocol (TCP, FTP, UDP) scanning with Metasploit framework.

AIM:

To perform Protocol (TCP, FTP, UDP) scanning with Metasploit framework

ALGORITHM:

Step - 1: Start the Process.

Step -2: Start the Virtual box Kali linux machine.

Step -3: Open the terminal app and start the Metasploit tool with the command:

>>>sudo msfconsole

Step – 4 : Set TCP scan tunnel and meterpreter shell.

>>>use exploit/multi/handler

>>>show options

Step -4: Set FTP/FTPD scan tunnel and meterpreter shell.

>>>use exploit/FTPD/reverse shell

>>>show options

Step – 4 : Set UDP scan tunnel and meterpreter shell.

>>>use exploit/UDP/reverse shell

>>>show options

Step -5: Write the full output in the observation.

Step -6: Stop the Process.

OUTPUT:

Write the output of the TCP, FTP and UDP scans from the meterpreter shell.

RESULT:

Scanning for TCP, FTP and UDP services is successfully completed.

EXERCISE IX

9. To perform SSH Login attack using Metasploit framework.

AIM:

To perform SSH Login attack using Metasploit framework.

ALGORITHM:

- Step -1: Start the Process.
- Step 2: Start the Virtual box Kali linux machine.
- Step -3: Open the terminal app and type the ssh command to access and login with user and password:

>>>sudo ssh <USERNAME@IP ADDRESS> -p <PASSWORD>

Step – 4: Use Metasploit to set a SSH reverse shell as command and control center:

>>>sudo msfconsole

Step -5: set SSH login exploit with reverse shell access:

>>>use exploit/ssh/reverse_shell

Step -6: Write the full output in the observation.

Step -7: Stop the Process.

OUTPUT:

Write the command to setup the Metasploit and the revers shell access vulnerability file path.

RESULT:

Performing a SSH login attack is successfully done.

EXERCISE X

10. To perform Pentesting on the given ICA vulnerable machine to find Password of the database using pentesting tools.

AIM:

To perform Pentesting on the given ICA vulnerable machine to find Password of the database using pentesting tools.

ALGORITHM:

- Step-1: Start the Process.
- Step -2: Start the Virtual box Kali linux machine.
- Step 3 : Find the IP_ADDRESS of the ICA machine with netdiscover:
- Step -4: Perform initial full in depth scan with nmap.
- Step -4: Find the vulnerability in the database with search sploit.
- Step -4: Use mysql to remotely login and find the database username and password.
- Step -4: Use reverse ssh shell to escalate privilege to the default user and login as super user.
- Step -5: Write the full output in the observation.
- Step -6: Stop the Process.

OUTPUT:

Write the Contents of the database tables: USER AND LOGIN

RESULT:

Exploit and study of the ICA machine is successfully accomplished.