

CEH Module 9: Social Engineering

Assignment - 05

(**Sairaj Mothukuri**)

Lab Scenario:

Given Lab Scenario

As a professional ethical hacker or penetration tester, you should use various social engineering techniques to examine the security of an organization and the awareness of employees. In a social engineering test, you should try to trick the user into disclosing personal information such as credit card numbers, bank account details, telephone numbers, or confidential information about their organization or computer system. In the real world, attackers would use these details either to commit fraud or to launch further attacks on the target system

Given Lab Objectives:

- Sniff users' credentials using the Social-Engineer Toolkit (SET)
- Perform phishing using Shell Phish

Objective: 01

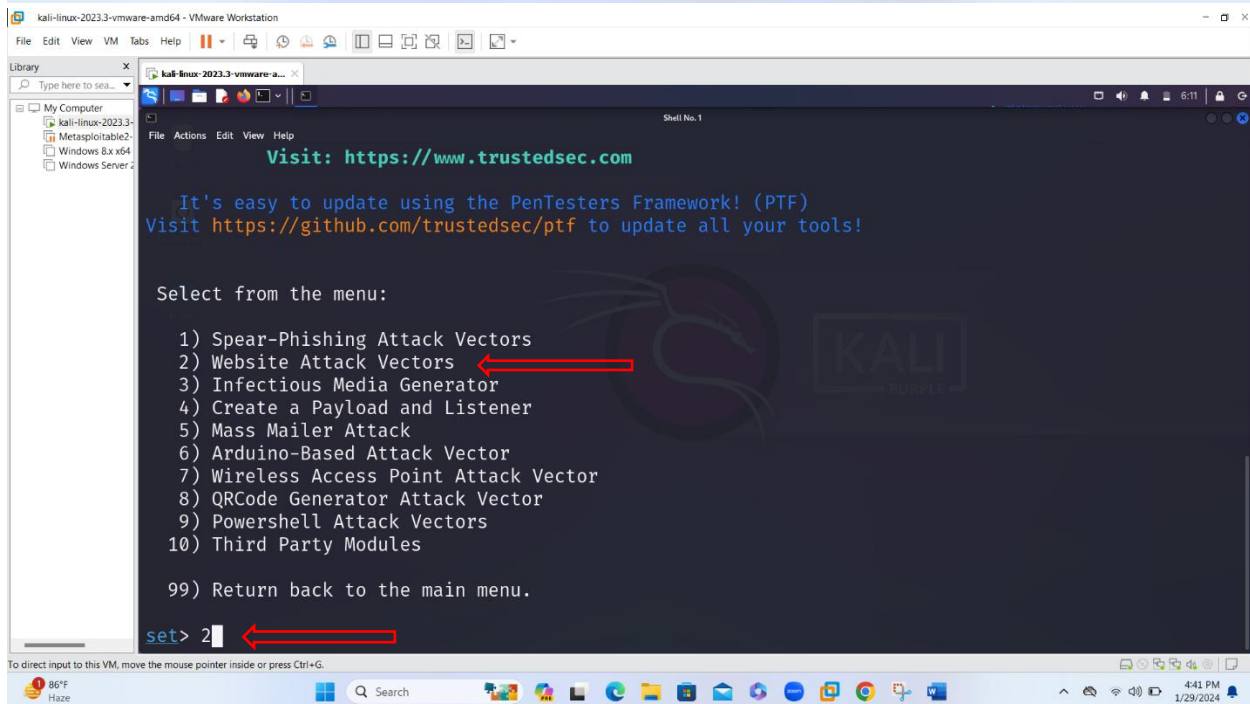
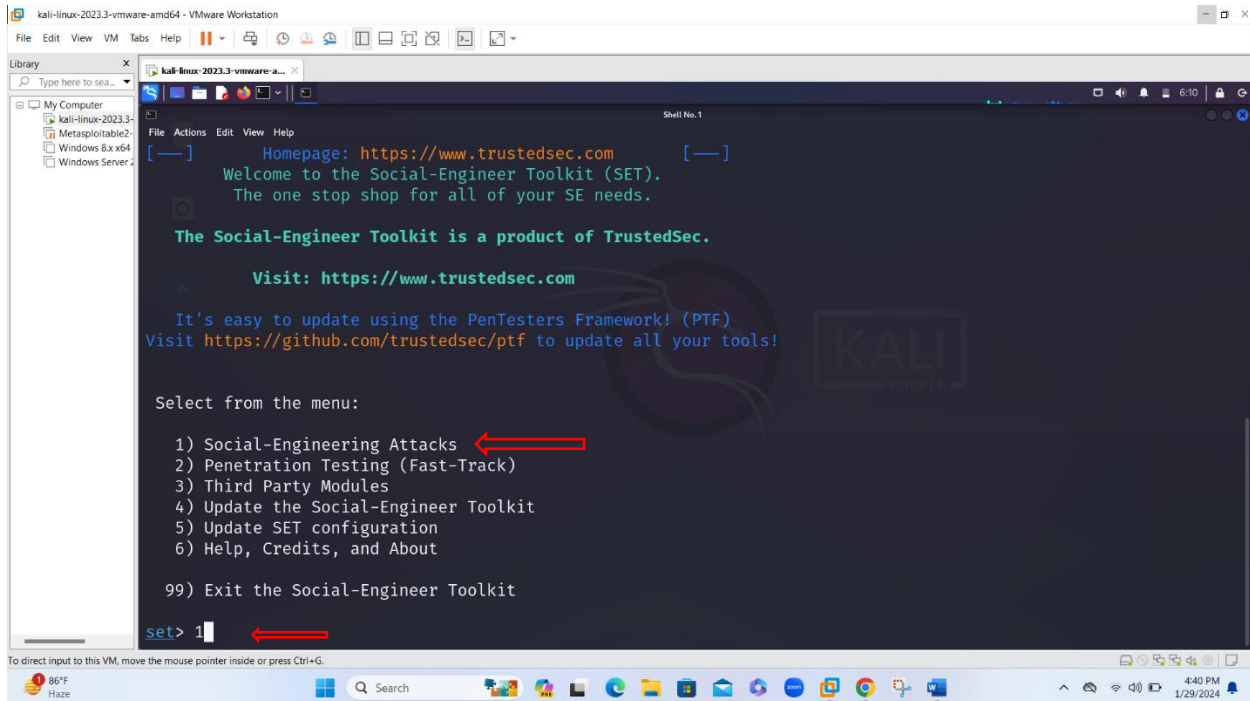
Sniff users' credentials using the Social-Engineer Toolkit (SET)

- The Social-Engineer Toolkit (SET) is an open-source penetration testing framework designed for simulating social engineering attacks.
- It's essential to note that the Social-Engineer Toolkit is meant for legal and ethical use in controlled environments, such as during penetration testing engagements where explicit permission has been obtained. Unauthorized use of such tools is illegal and against ethical standards.

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86°F Haze Search [Taskbar Icons: File Explorer, Edge, Word, PowerPoint, Outlook, OneDrive, Teams, Zoom, Chrome, Firefox, VLC, etc.] 4:38 PM 1/29/2024





kali-linux-2023.3-vmware-amd64 - VMware Workstation

File Edit View VM Tabs Help

Library

Type here to search

My Computer

- kali-linux-2023.3
- Metasploit-table2
- Windows 8x x64
- Windows Server 2016

Shell No. 1

placements to make the highlighted URL link to appear legitimate however when clicked a window pops up then is replaced with the malicious link. You can edit the link replacement settings in the set _config if it's too slow/fast.

The **Multi-Attack** method will add a combination of attacks through the web attack menu. For example, you can utilize the Java Applet, Metasploit Browser, Credential Harvester/Tabnabbing all at once to see which is successful.

The **HTA Attack** method will allow you to clone a site and perform PowerShell injection through HTA files which can be used for Windows-based PowerShell exploitation through the browser.

- 1) Java Applet Attack Method
- 2) Metasploit Browser Exploit Method
- 3) Credential Harvester Attack Method
- 4) Tabnabbing Attack Method
- 5) Web Jacking Attack Method
- 6) Multi-Attack Web Method
- 7) HTA Attack Method

99) Return to Main Menu

set:webattack>3

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

86°F
Haze

Search

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1/29/2024

kali-linux-2023.3-vmware-amd64 - VMware Workstation

File Edit View VM Tabs Help

Library

Type here to search

My Computer

- kali-linux-2023.3
- Metasploit-table2
- Windows 8x x64
- Windows Server 2016

Shell No. 1

99) Return to Main Menu

set:webattack>3

The first method will allow SET to import a list of pre-defined web applications that it can utilize within the attack.

The second method will completely clone a website of your choosing and allow you to utilize the attack vectors within the completely same web application you were attempting to clone.

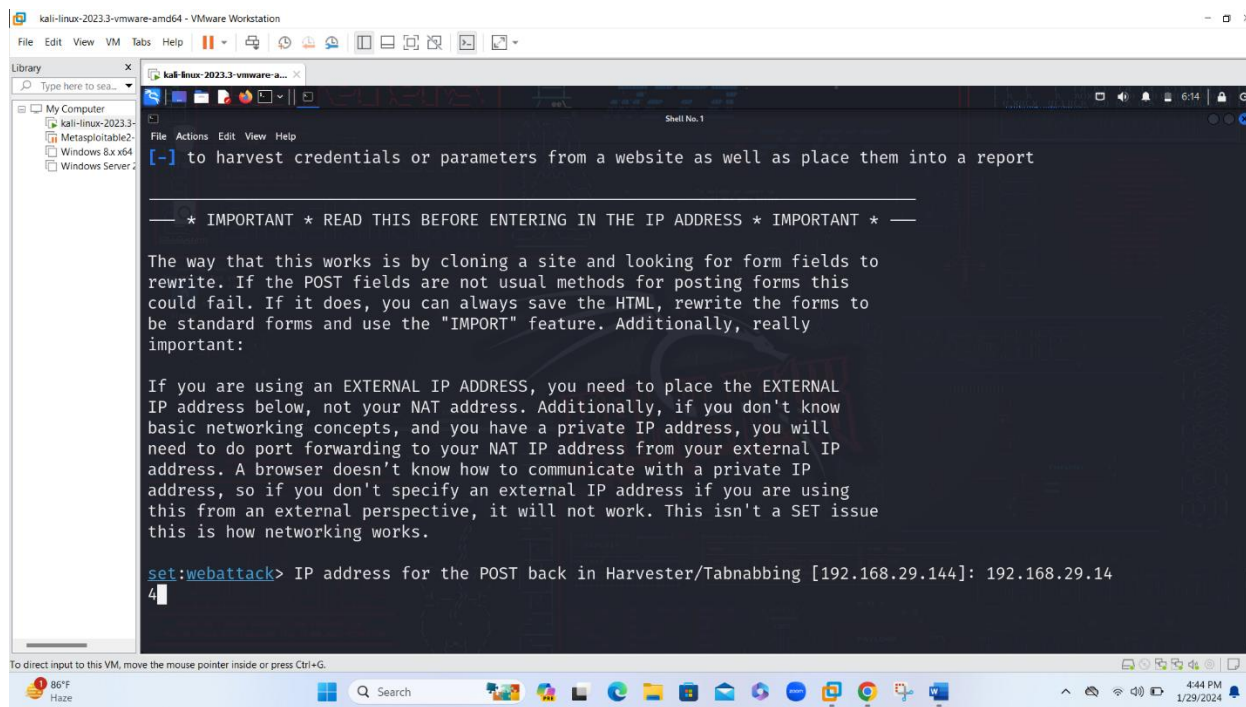
The third method allows you to import your own website, note that you should only have an index.html when using the import website functionality.

- 1) Web Templates
- 2) Site Cloner
- 3) Custom Import

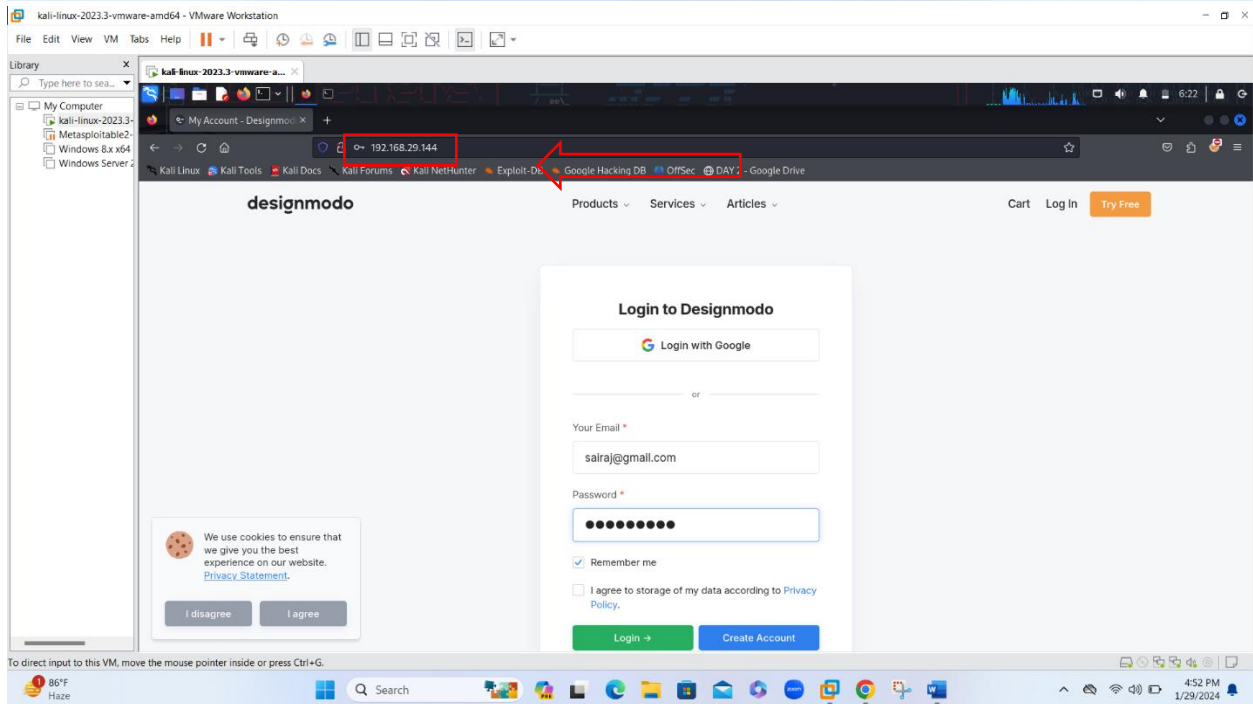
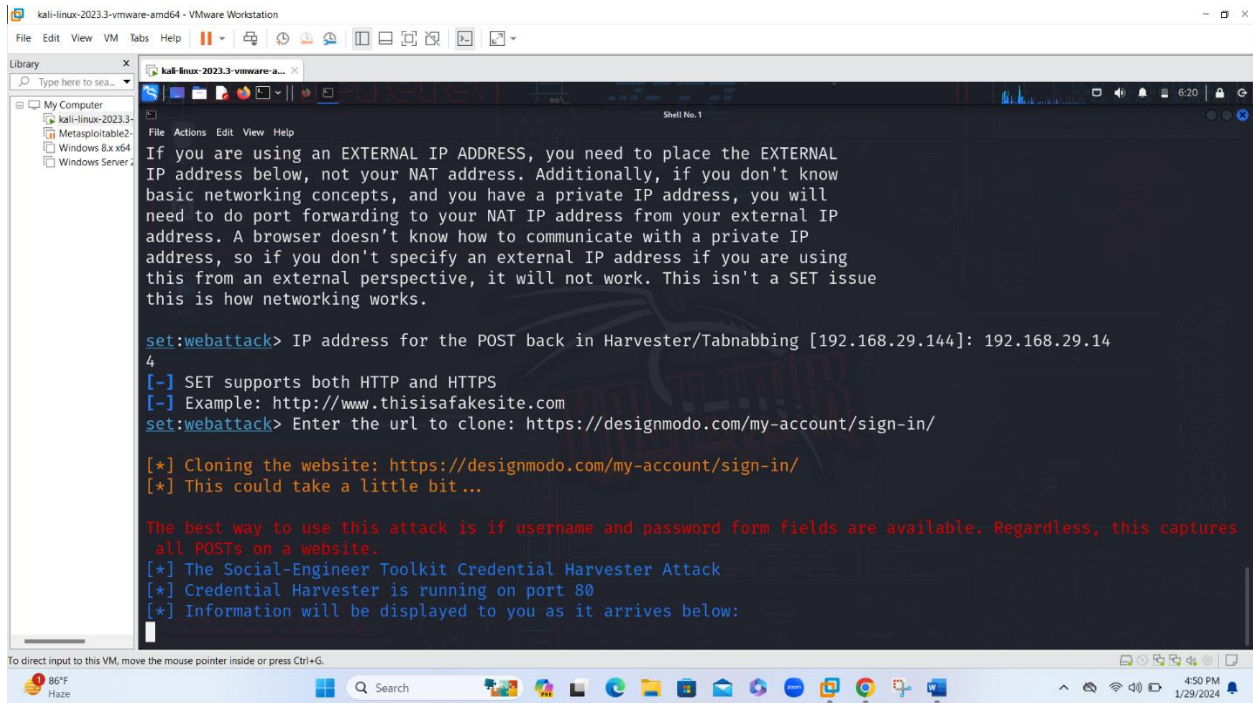
99) Return to Webattack Menu

set:webattack>2

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.



- IP address for the post back Harvester/Tabnabbing is 192.168.29.144



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kali-linux-2023.3-vmware-amd64 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
kali-linux-2023.3-vmware-amd64
Metasploitable2
Windows 8x x64
Windows Server 2012 R2

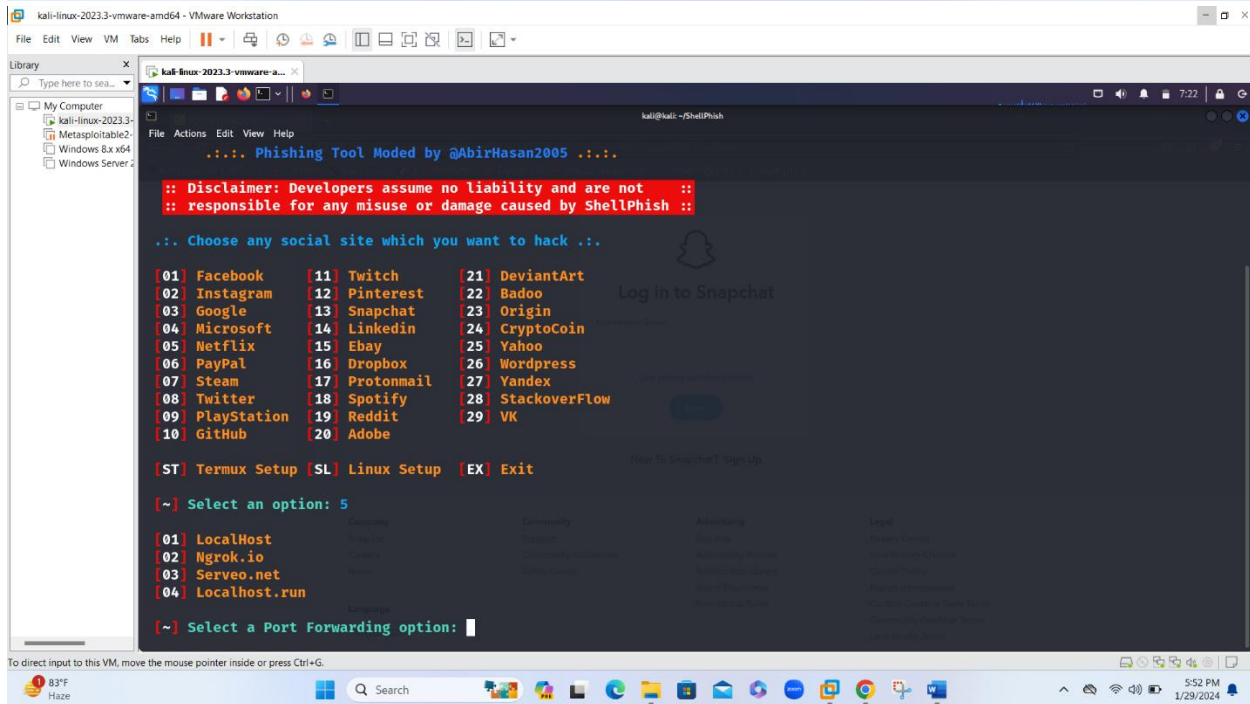
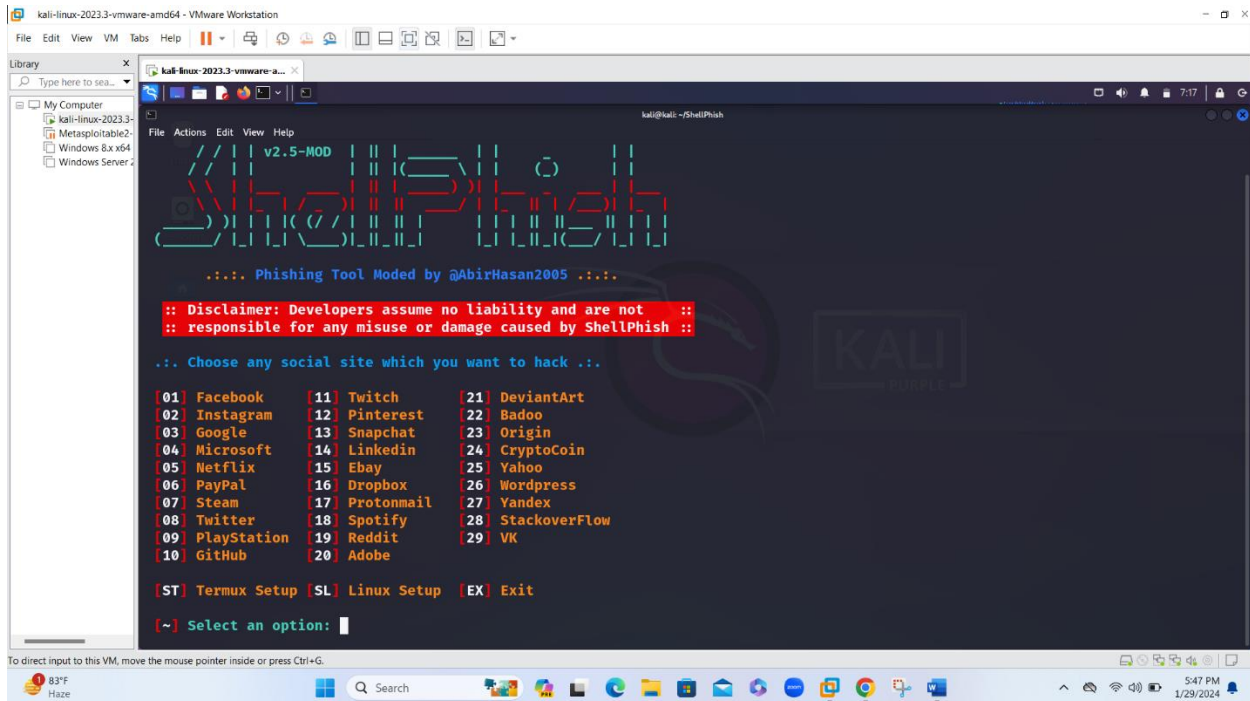
The best way to use this attack is if username and password form fields are available. Regardless, this captures all POSTs on a website.
[*] The Social-Engineer Toolkit Credential Harvester Attack
[*] Credential Harvester is running on port 80
[*] Information will be displayed to you as it arrives below:
192.168.29.144 - - [29/Jan/2024 06:21:36] "GET / HTTP/1.1" 200 -
[*] WE GOT A HIT! Printing the output:
PARAM: time=1706527300227
[*] WHEN YOU'RE FINISHED, HIT CONTROL-C TO GENERATE A REPORT.

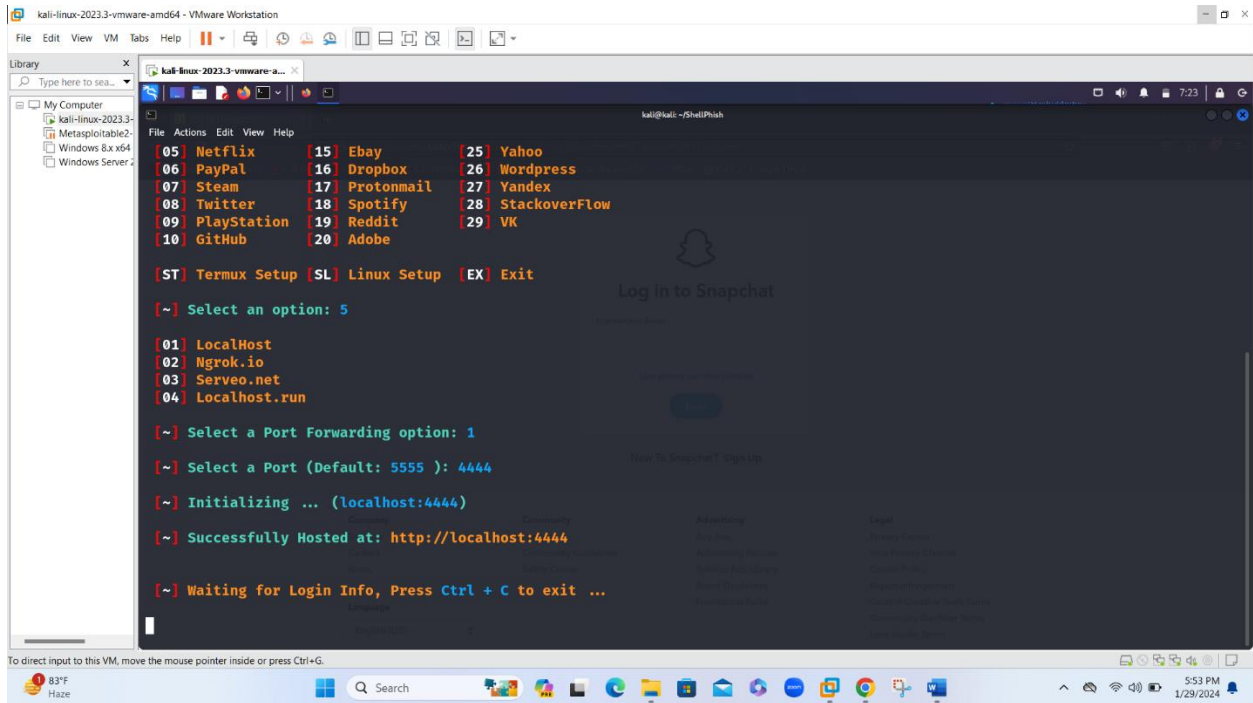
[*] WE GOT A HIT! Printing the output:
POSSIBLE USERNAME FIELD FOUND: username=sairaj@gmail.com
POSSIBLE PASSWORD FIELD FOUND: password=123456789
PARAM: rememberme=forever
PARAM: acceptance=Y
POSSIBLE USERNAME FIELD FOUND: woocommerce-login-nonce=043f5649e9
PARAM: _wp_http_referer=/my-account/sign-in/
POSSIBLE USERNAME FIELD FOUND: login=Login
[*] WHEN YOU'RE FINISHED, HIT CONTROL-C TO GENERATE A REPORT.
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Objective: 02

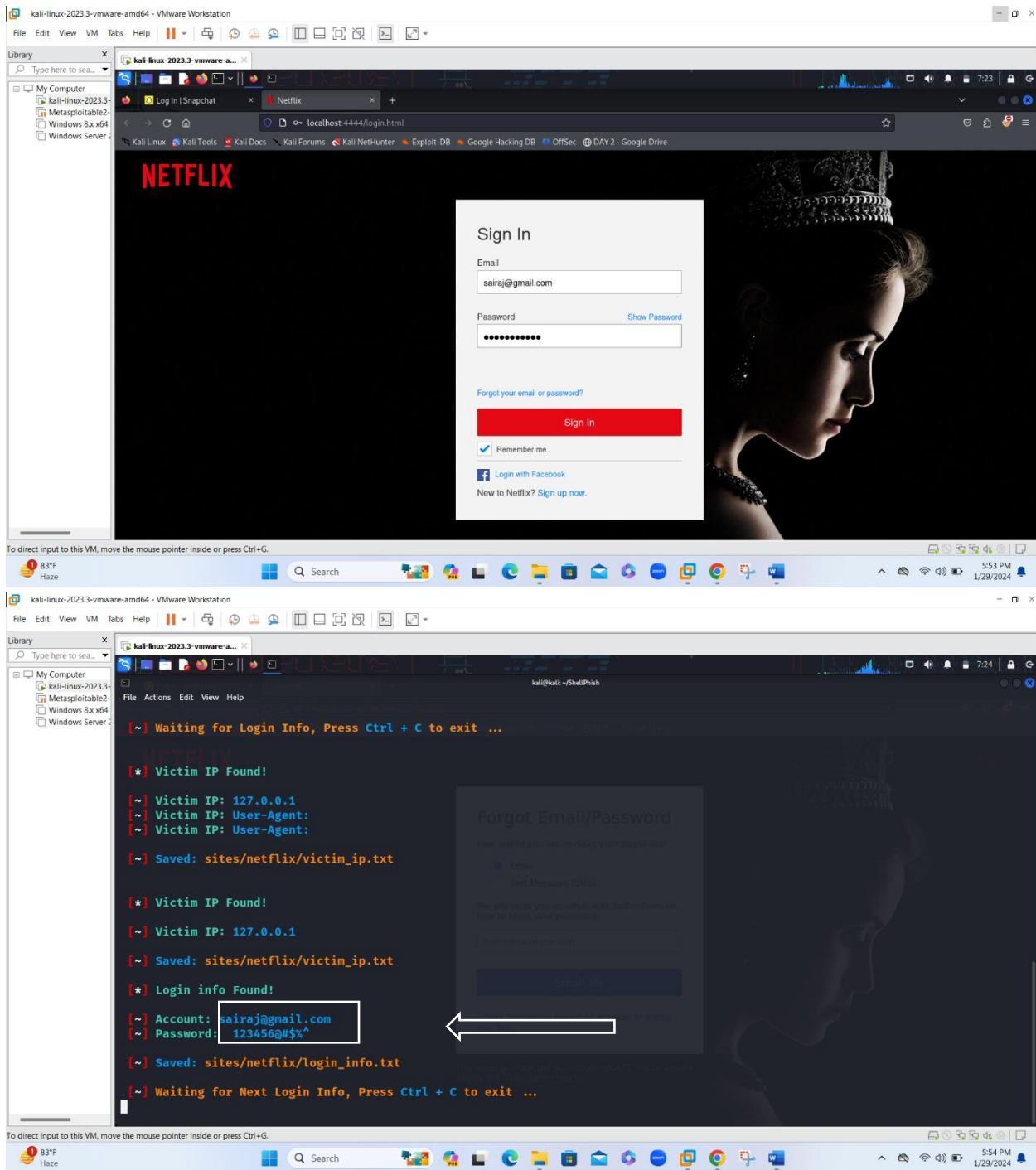
Perform phishing using Shell Phish

- The main focus of this assignment is to explore phishing attacks, specifically through the use of the Shell Phish tool. Phishing involves deceptive cyberattacks that trick individuals into divulging sensitive information by posing as a trustworthy entity. Shell Phish is a versatile tool enabling users to create convincing phishing pages, offering hands-on experience in understanding the tactics employed by cybercriminals.
- To start the assignment, I launched VMware and set up a Kali Linux virtual machine. Using the Kali Linux terminal, I cloned the Shell Phish tool from GitHub with the 'git clone' command. After cloning, I navigated to the Shell Phish directory and initiated the tool by executing 'bash shellphish.sh'.





- Upon executing the tool, it generated a phishing link, which, disguised within a seemingly authentic facade, has the potential to entice victims into disclosing their credentials. Similar to a prior assignment, I crafted a phishing email, seamlessly integrating this link to maintain an appearance of legitimacy. When a recipient accessed the email and entered their authentic credentials, the Shell Phish tool intercepted and promptly displayed these credentials on my screen.



- the task involves a hands-on investigation into phishing techniques utilizing the Shell Phish tool, providing practical knowledge and a deeper understanding of the workings of phishing attacks. It underscores the significance of cybersecurity awareness in defending against such tactics.

Submitted By

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