Phishing Assessment Report

Target Environment: LinkedIn Login Page (Phishing Clone Attack)

Phishing Framework: Social-Engineer Toolkit (SET)

Date of Test: December 15, 2024

Tester: Yuvin Perera

1. Introduction

This report outlines the results of a phishing assessment conducted using the Social-Engineer Toolkit (SET) to evaluate the effectiveness of a cloned LinkedIn login page in harvesting user credentials. The objective was to simulate a real world phishing attack and assess user susceptibility to entering their credentials on a malicious page.

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The Social-Engineer Toolkit (SET)

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2. Methodology

The Social-Engineer Toolkit (SET) was used as the primary tool for this assessment. The Website Attack Vectors module within SET was employed to clone the LinkedIn login page. The cloned page was hosted on a local IP address, 10.0.2.15, and designed to appear identical to the legitimate LinkedIn login page. This page was accessible via the link http://10.0.2.15/.

To lure the target into visiting the cloned page, a phishing email was crafted and sent to the target from the email address yuvindeakin@gmail.com. The email contained no subject line and a hyperlink leading to the malicious page. Once the target accessed the page and entered their credentials, the data was captured by SET and logged for analysis.

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3. Execution and Observations

The phishing attack was executed successfully. Upon clicking the malicious link, the target was redirected to the cloned LinkedIn login page. The page visually replicated the original LinkedIn login interface, making it challenging for users to distinguish it from the legitimate version.

Once credentials were entered on the cloned page, SET captured and displayed the harvested data in real time. The logs revealed multiple username and password fields being transmitted, indicating user interaction with the page. The following key parameters were observed in the logs:

✓ Captured Username - The primary username field was identified as session_key with the value yuvinpereradyk@gmail.com. Additional username fields, such as controlld and pageInstance, were also noted, corresponding to LinkedIn's tracking and form submission fields.

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

PARAM: csrfToken=ajax:3000827309140878899

PARAM: session_key=yuvinpereradyk@gmail.com

PARAM: ac=0
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✓ **Captured Password** - The password field was identified as session_password with the value PereraDYK2K0809.

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POSSIBLE PASSWORD FIELD FOUND: session_password=PereraDYK2K0809

PARAM: rememberMeOptIn=true

[*] WHEN YOU'RE FINISHED, HIT CONTROL-C TO GENERATE A REPORT.
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The SET logs also recorded various HTTP events, such as PageViewHeartbeatEvent and ControlInteractionEvent, which reflected user interactions with the cloned page. Additionally, persistent requests to the server at 10.0.2.15 indicated repeated activity, suggesting the user may have interacted with the page multiple times.

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The phishing email itself was minimalistic, containing only a hyperlink to the malicious IP address. This simplicity likely contributed to the target's engagement with the phishing page, as it appeared non suspicious and straightforward.

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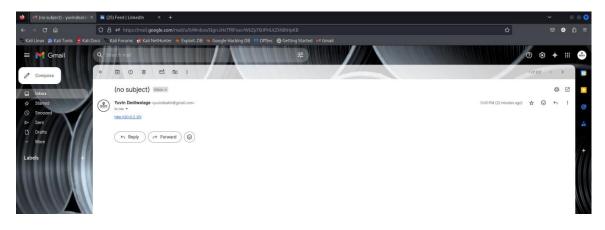
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^C[*] File in XML format exported to /root/.set/reports/2024-12-15 17:05:00.940180.xml for your reading pleasure...

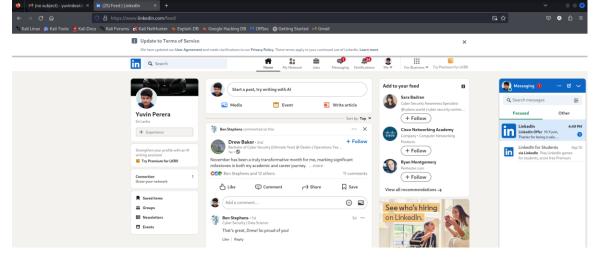
Press <return> to continue
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4. Key Findings

The assessment revealed critical vulnerabilities and user susceptibility to phishing attacks. The cloned LinkedIn login page was highly effective in harvesting credentials. The following key findings were observed:

- ✓ Credential Harvesting Success The phishing page successfully captured both the username and password, with the credentials being displayed in the logs in clear text. The captured username yuvinpereradyk@gmail.com and password PereraDYK2K0809 confirm the success of the attack.
- ✓ Cloned Page Realism The cloned page closely resembled the legitimate LinkedIn login page, increasing the likelihood of user trust. Without URL verification, users are unlikely to notice discrepancies.
- ✓ Phishing Email Simplicity The phishing email, while minimalistic, effectively directed the target to the cloned page. This demonstrates that even basic phishing emails can achieve the intended outcome if users fail to verify the link.
- ✓ Persistent Activity Logs Multiple tracking events, such as PageViewHeartbeatEvent and ControlInteractionEvent, were observed. This reflects the ongoing interaction between the user and the cloned page.





5. Recommendations

To mitigate the risks associated with phishing attacks, the following measures are recommended:

- ✓ User Awareness Training Conduct regular cybersecurity awareness sessions to educate users on identifying phishing attacks. Users should be trained to verify URLs and check for signs of cloned or malicious pages.
- ✓ URL Verification Policies Encourage users to manually verify URLs before entering sensitive information. Browser plugins that flag suspicious URLs can also be deployed.
- ✓ Multi-Factor Authentication (MFA) Enforce multi-factor authentication to add a security layer. Even if credentials are compromised, MFA can prevent unauthorized access.
- ✓ Email Security Controls Implement email filters and phishing detection mechanisms to quarantine suspicious emails and prevent malicious links from reaching users.
- ✓ Incident Monitoring and Reporting Deploy monitoring tools to detect cloned websites and alert administrators when suspicious activity is observed. Additionally, users should be encouraged to report phishing attempts promptly.

Yuvin Perera

6. Conclusion

This phishing assessment successfully demonstrated how cloned websites, when combined with minimalistic phishing emails, can effectively harvest user credentials. The cloned LinkedIn login page captured both the username and password, highlighting the risks of user negligence and a lack of awareness regarding phishing attacks.

Organizations must prioritize user education, implement preventive measures like MFA, and enforce URL verification policies to mitigate the impact of such attacks. By adopting a proactive approach to phishing prevention, organizations can significantly reduce the likelihood of credential compromise and unauthorized access.