

Social Engineering Write-Up

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Platform: TryHackMe

Exercise 1: Phishing-Merry Clickmas

1. Objective

The objective of this exercise is to understand how to use the Social-Engineer Toolkit to send phishing emails and harvest credentials by mimicking legitimate login page.

2. Tools/Platform Used

- TryHackMe
- Social-Engineer Toolkit (SET)

3. Steps Taken

1. Set up a local environment to simulate a credential collection server.
2. Verified the server connection through a web browser.
3. Used the Social-Engineer Toolkit (SET) to explore social engineering attack options.
4. Selected an email-based phishing attack scenario within the tool.
5. Created a realistic phishing email scenario with a convincing subject line.
6. Configured the email content to include a link to a simulated login page.
7. Observed how user interaction with the phishing email could lead to credential capture.
8. Monitored the server to understand how phishing attacks collect user input.
9. Harvest the credentials from target users by using username and password capture.

4. Findings/What I learned

- Human manipulation plays an important role in phishing attacks, especially through convincing messages and legitimate-looking sender email addresses.
- Create fake login pages and phish email using the configured SMTP server
- The Social-Engineer Toolkit (SET) supports various types of social engineering attacks and helps demonstrate how phishing campaigns are created.

5. Conclusion

This exercise gave exposure and awareness education on social engineering attacks by using Social Engineering Toolkit (SET) and showed how simple techniques can be used to deceive users.

6. Evidence

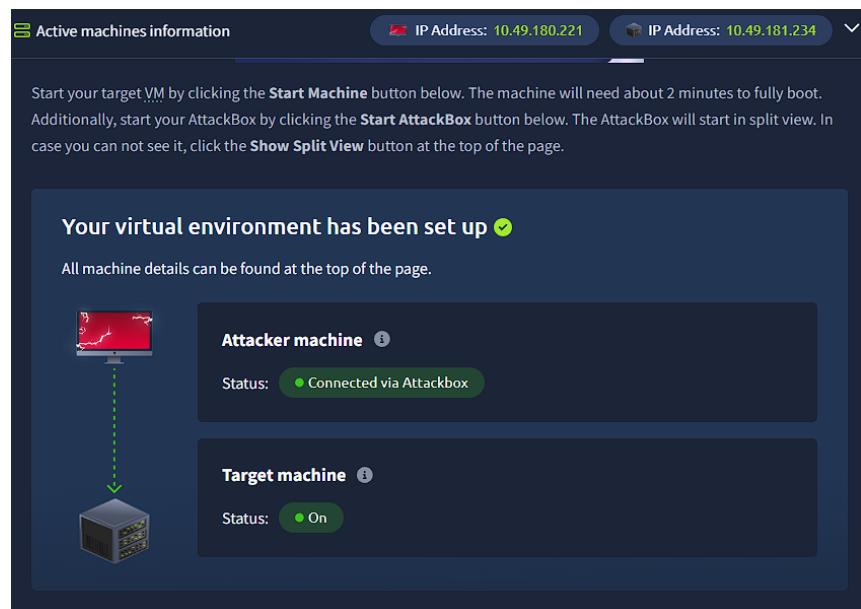


Figure 1: Setup machine

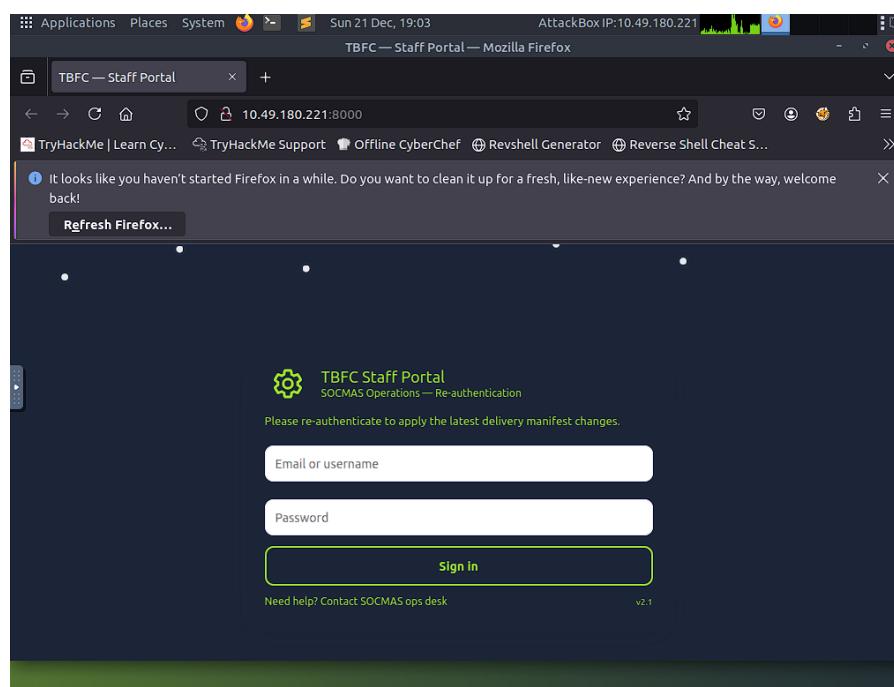


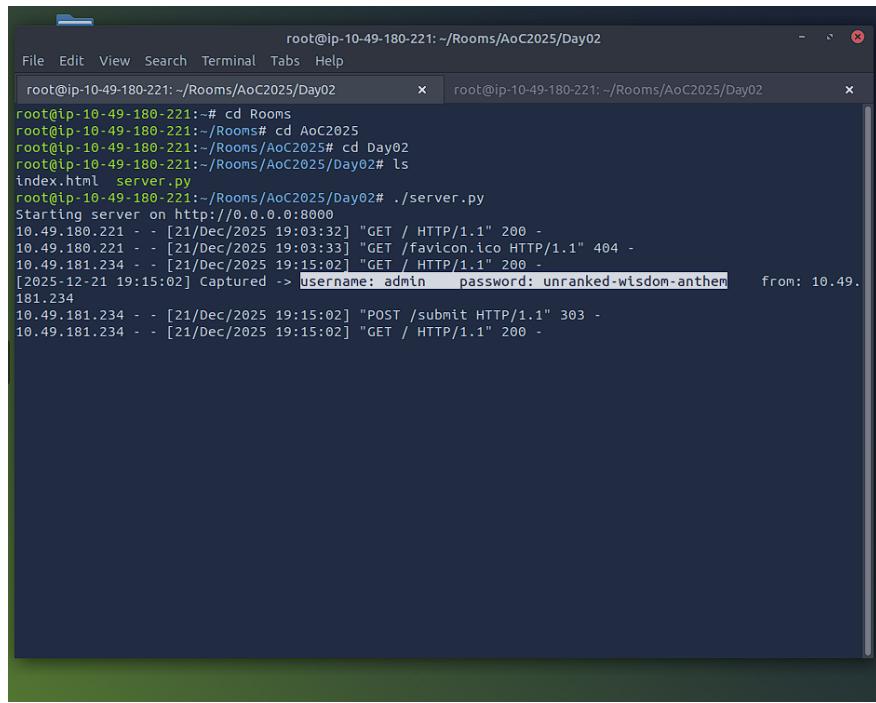
Figure 2: Mimicking legitimate login page

The image shows a terminal window titled "root@ip-10-49-180-221: ~/Rooms/AoC2025/Day02". It displays the main menu of the Social-Engineering Toolkit (SET). The menu includes options for Social-Engineering Attacks, Penetration Testing (Fast-Track), Third Party Modules, updating the toolkit, configuration, help, credits, and exiting. A note at the top mentions the toolkit's purpose as "The one stop shop for all of your SE needs." and its source as "The Social-Engineer Toolkit is a product of TrustedSec." It also provides a link to the toolkit's website (<https://www.trustedsec.com>) and a GitHub repository (<https://github.com/trustedsec/ptf>). A message at the bottom indicates that it's unable to check for a new version due to network issues.

Figure 3: Social Engineering Toolkit (SET) menu based

The image shows a terminal window titled "root@ip-10-49-180-221: ~/Rooms/AoC2025/Day02". It displays the process of creating a phishing email using the SET mailer module. The user has selected option 1 (use a Gmail account) and option 2 (use their own server or open relay). They have specified the recipient as "factory@wareville.thm" and the subject as "Shipping Schedule Change". The message body contains a note about shipping delays and a link to a proposed timeline. The user has completed the message and is prompted to press return to continue.

Figure 4: Create phishing email using SET



```
root@ip-10-49-180-221:~/Rooms/AoC2025/Day02
File Edit View Search Terminal Tabs Help
root@ip-10-49-180-221:~/Rooms/AoC2025/Day02 x root@ip-10-49-180-221:~/Rooms/AoC2025/Day02 x
root@ip-10-49-180-221:~# cd Rooms
root@ip-10-49-180-221:~/Rooms# cd AoC2025
root@ip-10-49-180-221:~/Rooms/AoC2025# cd Day02
root@ip-10-49-180-221:~/Rooms/AoC2025/Day02# ls
index.html server.py
root@ip-10-49-180-221:~/Rooms/AoC2025/Day02# ./server.py
Starting server on http://0.0.0.0:8000
10.49.180.221 - - [21/Dec/2025 19:03:32] "GET / HTTP/1.1" 200 -
10.49.180.221 - - [21/Dec/2025 19:03:33] "GET /favicon.ico HTTP/1.1" 404 -
10.49.181.234 - - [21/Dec/2025 19:15:02] "GET / HTTP/1.1" 200 -
[2025-12-21 19:15:02] Captured -> username: admin password: unranked-wisdom-anthem from: 10.49.181.234
10.49.181.234 - - [21/Dec/2025 19:15:02] "POST /submit HTTP/1.1" 303 -
10.49.181.234 - - [21/Dec/2025 19:15:02] "GET / HTTP/1.1" 200 -
```

Figure 5: Capture user's username and password

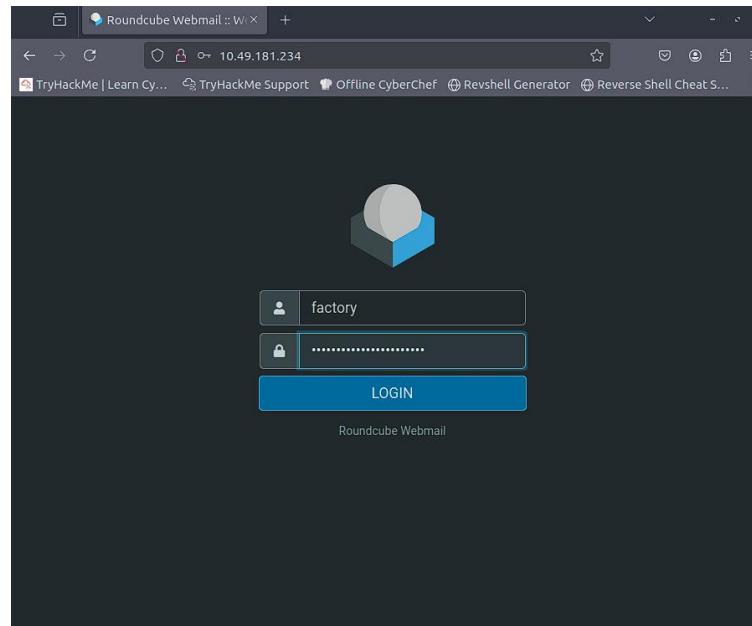


Figure 6: Access Roundcube Webmail to access user's inbox using user's password

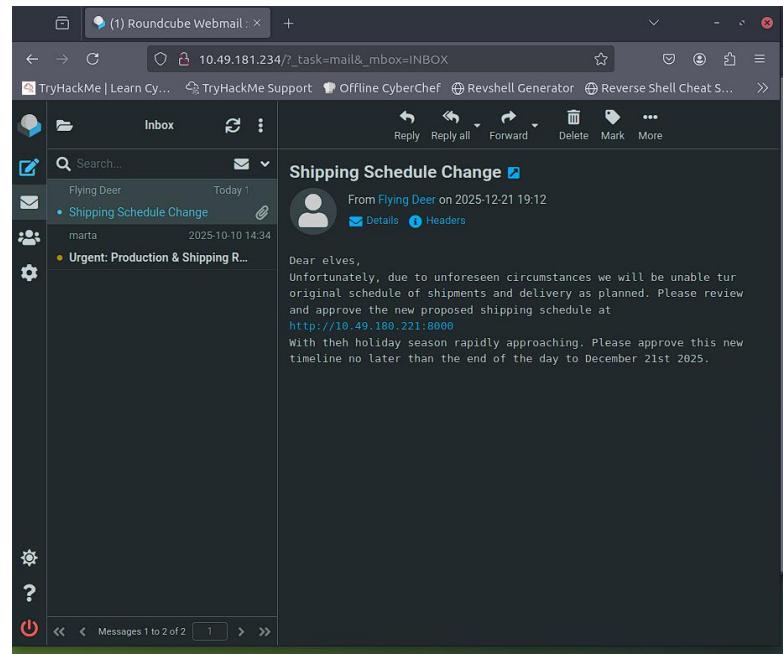


Figure 7: In target user's inbox and show our email we sent

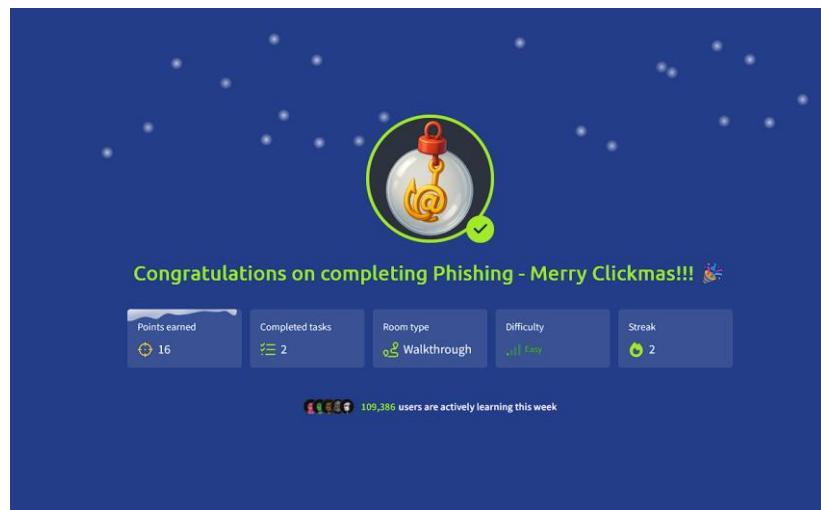


Figure 8: Complete task