Final Caption Report

I tested if the system is vulnerable and the result is shown in figure 1below.

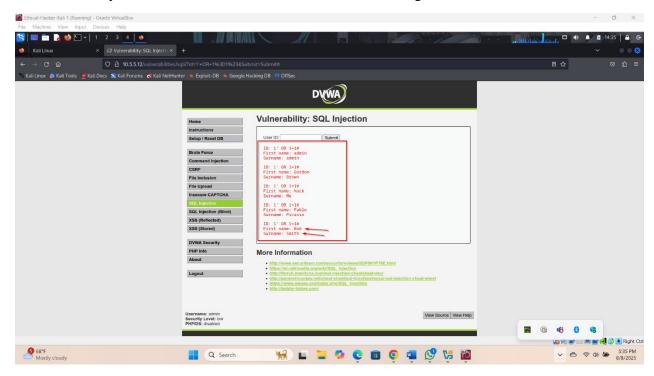
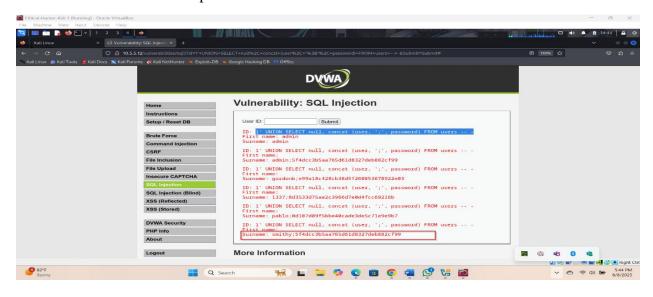


Figure 1 SQL injection

The results show the database is vulnerable and can be exploited further.

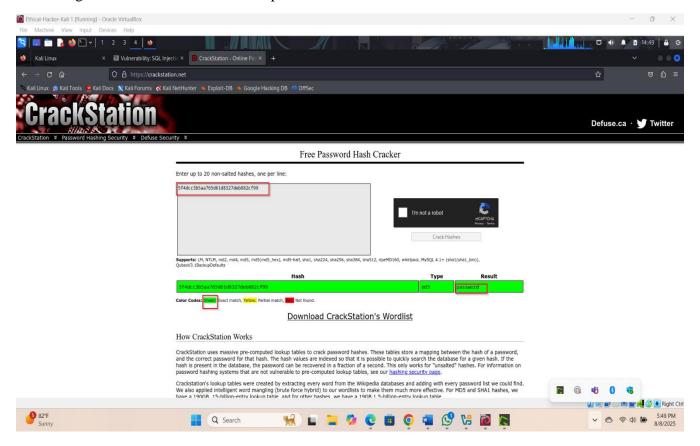
I ran this command: 1' UNION SELECT null, concat (user, ';', password) FROM users
-- -

to enumerate user name and password



I got user name: smithy and hashed password.

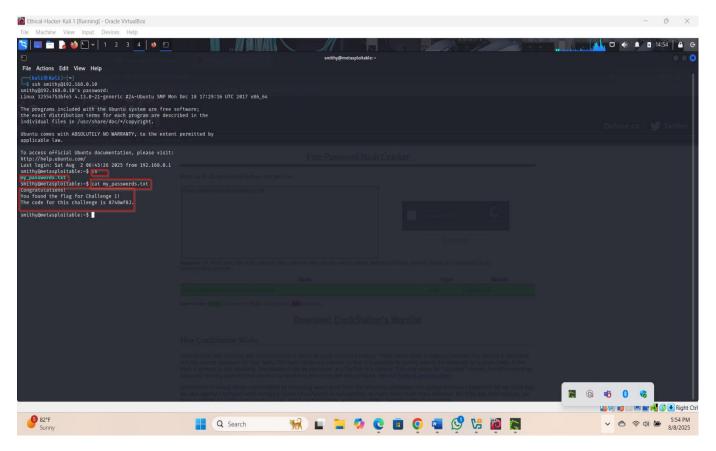
I am using crackstation.net to crack the password



Got password= psaaword

I ran ssh@smithy 192.168.0.10 and successfully login

I got a file my_passwords.txt which has the needed flag code as shown below figure



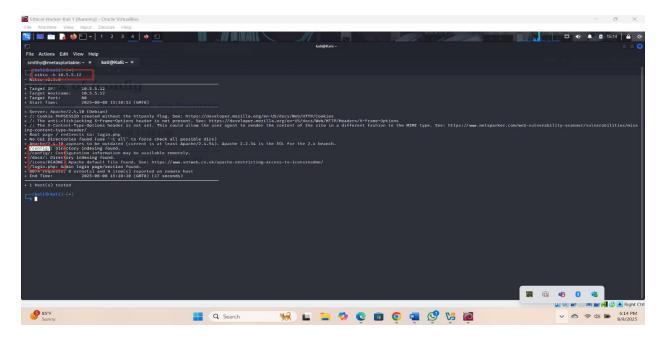
The code is 8748wf8J

Recommendation remediation:

- 1. Validate all user inputs
- 2. Apply prepared parameter query
- 3. Implement least privilege
- 4. Escape all the user inputs.

Question 2. Determine the cod contained in the shared files

I ran nikto for the host and found the following files directories

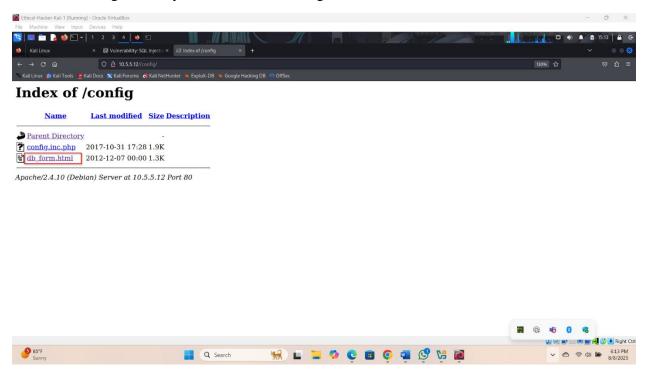


/Config/

/Docs/

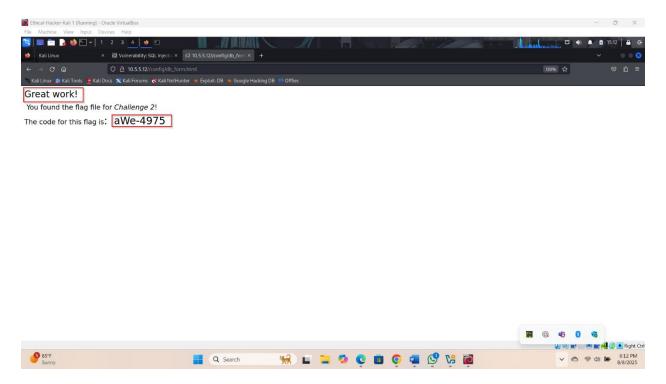
Icons and login

I used the config directory to on the browser to get the desired file



The file containing the code is db_form.html

The message contained in the file is in the figure below



Message 'Great Work! And the code required in the file is: aWe-4975

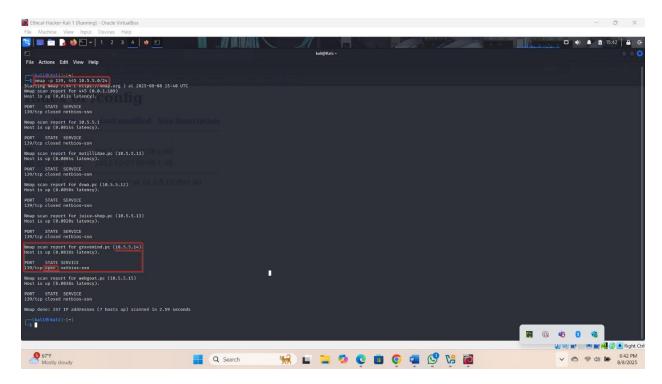
Remediation recommendation:

- 1. Anticlik-jacking should be enabled
- 2. Cookie PHPSESSID should be created with the httponly flag.
- 3. The X-Content-Type-Options header is should be set.

Question 3 SMB

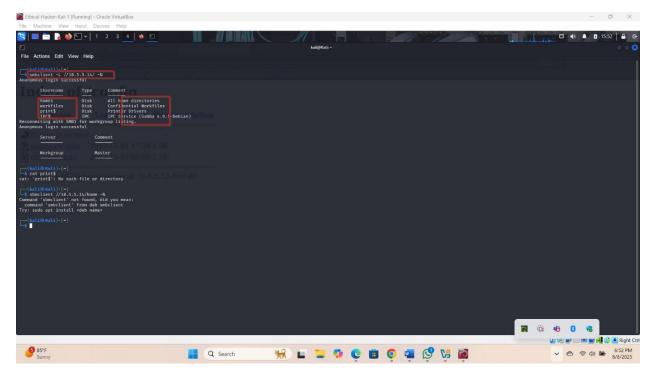
I test host IP address that are open on the SMB ports 139 and 445

Command: nmap -p 139, 445 10.5.5.0/24



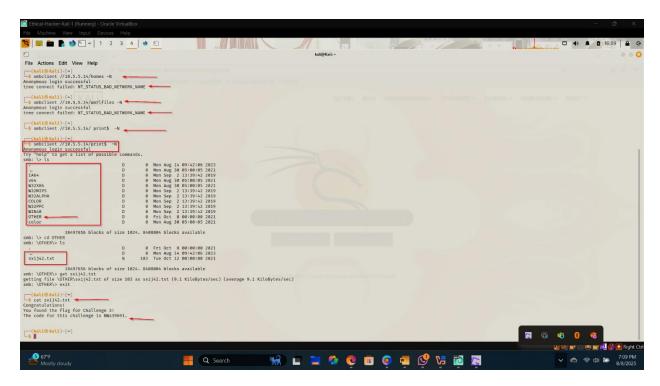
The scan found only one port open tcp 139 on 10.5.5.14

When I ran anonymous login this what I found.



Home, working file, print\$ and IPC\$

Have running several smbclient command: to login to the drive I got file on one of them



Print\$ had a file which on further exploitation I found message and the code

Congratulations!

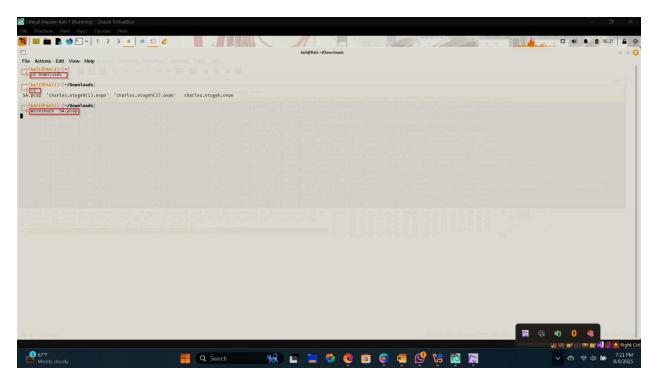
You found the flag for Challenge 3!

The code for this challenge is NWs39691.

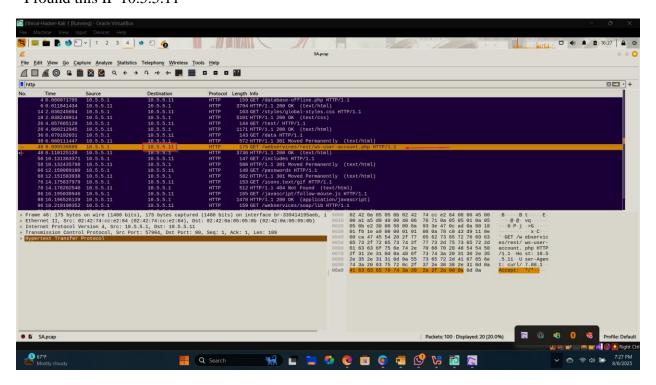
Remediation recommendations:

- 1. Harden firewall
- 2. And disable anonymous login access.

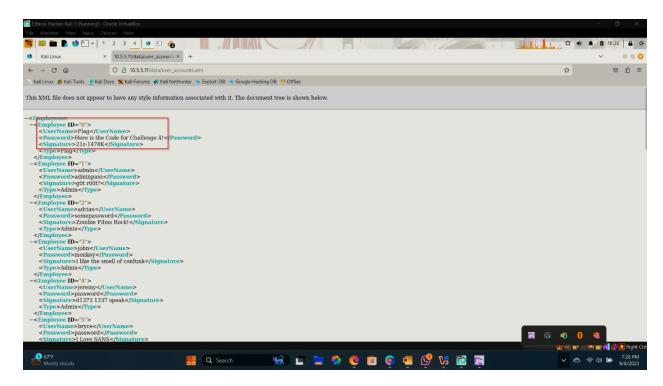
Question 4 packet capture



This open in the browser. I found this IP 10.5.5.11



When I searched the url I found the html file.



The message 'Here is the code for challenge 4!'

Code: 21z-1478K.

Remediations:

Enforce authentication to access API files

Set the firewall to detect and deny access.