# CTF-REPORT

# By Richu Joseph

Category: CTF-Pickle Rick

Description: A Rick and Morty CTF, Help turn Rick back

into a human

Challenge Overview: The Rick and Morty-themed challenge requires you to exploit a web server and find three ingredients to help Rick make his potion and transform himself back into a human from a pickle

Steps for finding the Flag:

Tool Used: Nmap

Command Executed: Nmap -F < Machine IP>

Findings: SSH (port 22) and HTTP (Port 80) open.

```
File Actions Edit View Help

zsh: corrupt history file /home/kali/.zsh_history

[kali®vbox)-[~]

square nmap -F 10.10.5.116

Starting Nmap 7.95 ( https://nmap.org ) at 2025-07-10 10:22 EDT

Nmap scan report for 10.10.5.116

Host is up (0.17s latency).

Not shown: 98 closed tcp ports (reset)

PORT STATE SERVICE

22/tcp open ssh

80/tcp open http

Nmap done: 1 IP address (1 host up) scanned in 1.19 seconds

[kali®vbox)-[~]
```

#### Tool Used:Gobuster

Command Executed: gobuster dir -u <a href="http://<Machine">http://<Machine</a>
IP> -w /usr/share/wordlists/dirb/common.txt

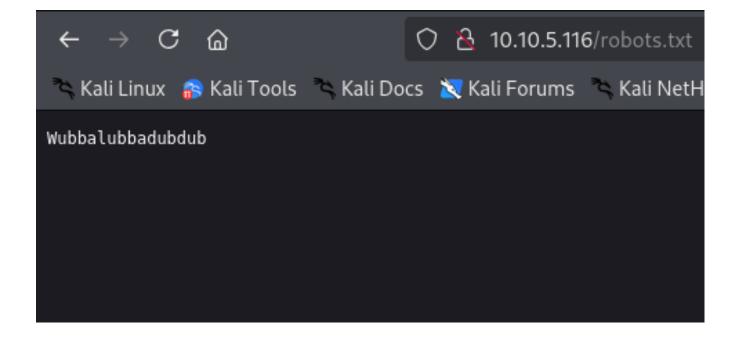
Findings: Discovered URLs such as '/index.hmtl,/login.php,robots.txt,etc

```
File Actions Edit View Help
zsh: corrupt history file /home/kali/.zsh_history
(kali@ vbox)-[~]

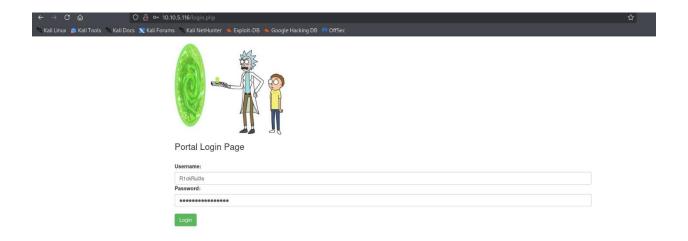
map -F 10.10.5.116
Starting Nmap 7.95 ( https://nmap.org ) at 2025-07-10 10:22 EDT
Nmap scan report for 10.10.5.116
Host is up (0.17s latency).
Not shown: 98 closed tcp ports (reset)
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
Nmap done: 1 IP address (1 host up) scanned in 1.19 seconds
   –(kali⊛vbox)-[~]
gobuster dir -u http://10.10.5.116 -w /usr/share/wordlists/dirb/common.txt
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                                   http://10.10.5.116
[+] Url:
[+] Method:
                                  GET
[+] Threads:
                                  10
                                   /usr/share/wordlists/dirb/common.txt
[+] Wordlist:
[+] Negative Status codes:
                                  404
                                  gobuster/3.6
[+] User Agent:
[+] Timeout:
                                  10s
Starting gobuster in directory enumeration mode
                        (Status: 403) [Size: 276]
(Status: 403) [Size: 276]
(Status: 403) [Size: 276]
(Status: 301) [Size: 311]
(Status: 200) [Size: 1062]
(Status: 200) [Size: 17]
(Status: 403) [Size: 276]
/.hta
/.htpasswd
/.htaccess
/assets
/index.html
/robots.txt
/server-status
Progress: 4614 / 4615 (99.98%)
Finished
   -(kali⊛vbox)-[~]
```

#### Robots.txt content:

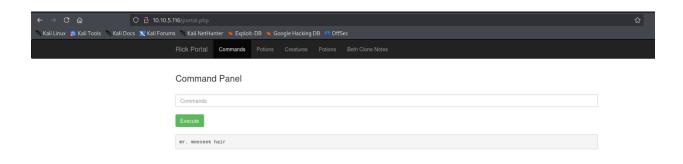
### Wubbalubbadudbub

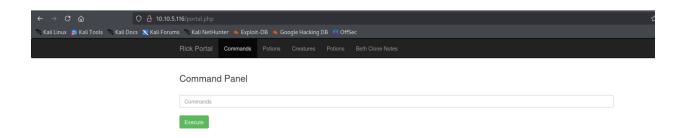


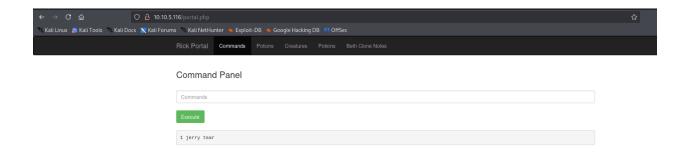
## Login.php Content:

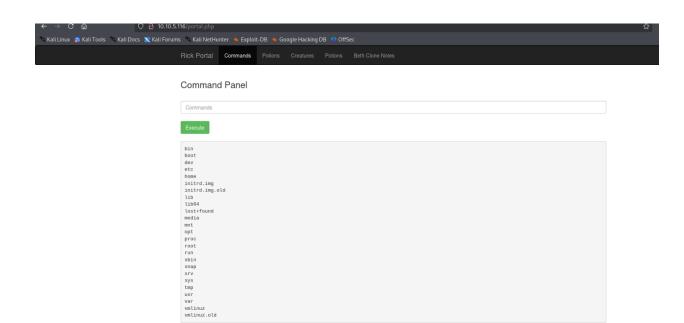


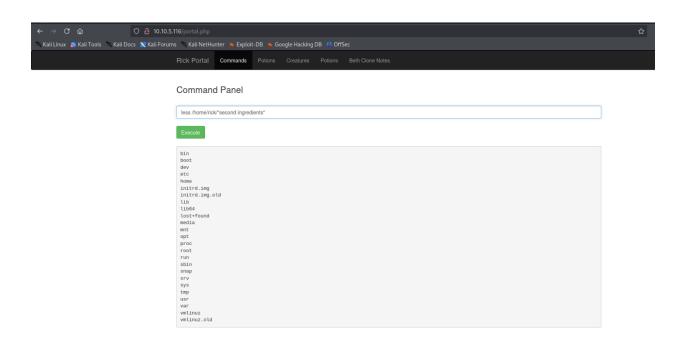
#### Admin Panel Content:

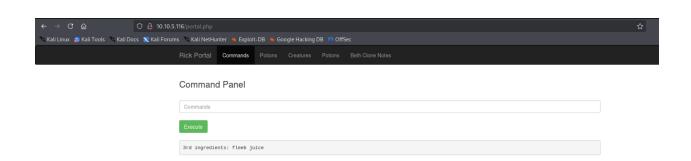


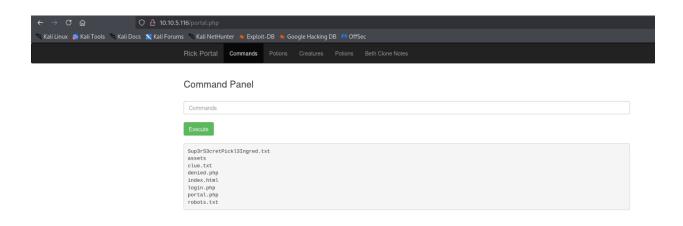


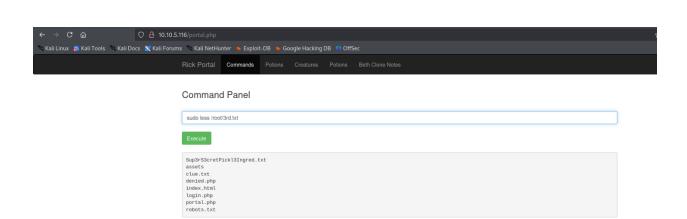














### **Remediation Recommendations**

- 1. **Input Sanitization**: Never pass user input to shell commands without strict filtering.
- 2. **Principle of Least Privilege**: Web applications should never run as root.
- 3. **Remove Hardcoded Secrets**: Don't leave credentials in comments or code.
- 4. **Restrict File Access**: Set appropriate file permissions and access control.
- 5. **Disable Dangerous Functions**: Remove or disable any eval(), exec(), or system() calls.

## **Conclusion**

This CTF demonstrates typical web exploitation techniques, from directory fuzzing to command injection and local privilege escalation. Through layered recon, authentication bypass, and abuse of insecure command execution, all objectives were completed successfully.