Task 4

by ashfin

Vulnerability assessment

Challenge Information

. VM Setup: Vulnerable VM imported via the Drive-provided OVA.

· Attacker Machine: Kali Linux 2025.2

o IP: 192.168.56.102

· Target Machine: Ubuntu 14.04

o IP: 192.168.56.101

Objective: Download and run the provided OVA VM in VirtualBox, perform a vulnerability assessment, exploit the system, and document each step in a professional report.

Tools Used:

- . Nmap Service & version detection
- . Metasploit Framework (msf6) Exploitation
- . Browser (Firefox) Web directory analysis
- . Manual Enumeration Validation

1. Environment Setup:

- . Imported the OVA file from the provided link into VirtualBox.
- . Ensured both the Kali VM and the target VM were on

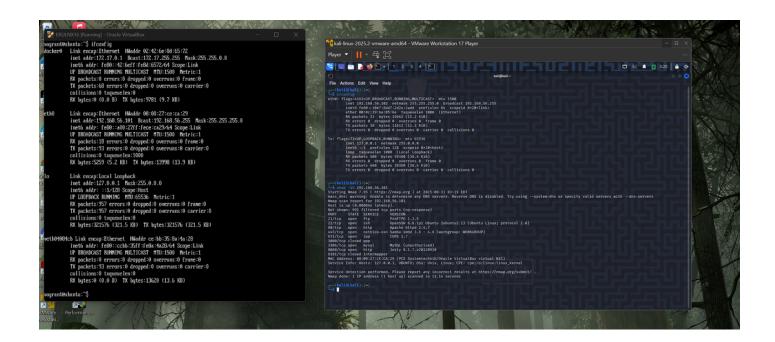
Host-Only Network for direct communication.

2. Enumeration & Discovery

2.1 - Service Scan

. Command: nmap -sV 192.168.56.102

. Result: 21/tcp open ftp ProFTPD 1.3.5

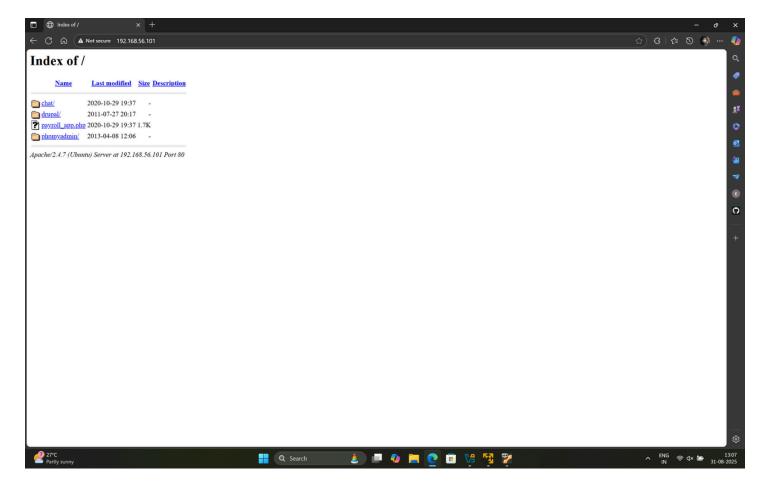


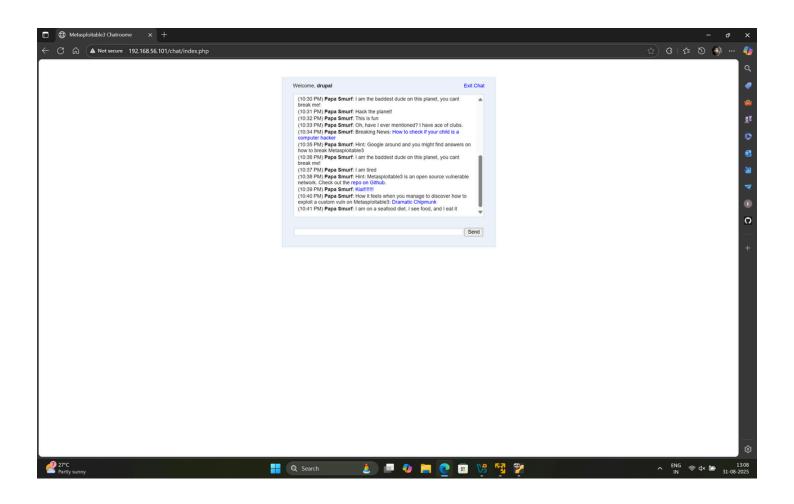
2.1 - Service Notes

- . FTP (ProFTPD 1.3.5): Vulnerable to mod_copy RCE (CVE-2015-3306).
- . HTTP (Apache 2.4.7): Directory listing enabled -+ info disclosure.
- · Samba (4.3.11): Message signing disabled -+ MITM risk.
- . CUPS (1.7): PUT method allowed -+ possible file upload.
- . MySQL: Externally accessible -+ brute-force/credential risk.

. Jetty (8.1.7): Outdated -+ known RCE exploits.

- Web Directory Listing
- . Purpose: Identify web applications/files accessible via HTTP. Visited http://192.168.56.102/ in a browser and confirmed directory listing exists.





Exploitation

The ProFTPD allows unauthorized file copying on the server. Found relevant Metasploit module via:

Command: searchsploit ProFTPD 1.3.5

Conclusion

This assessment confirmed that the target VM contains multiple critical vulnerabilities, ProFTPD enabled file copying.