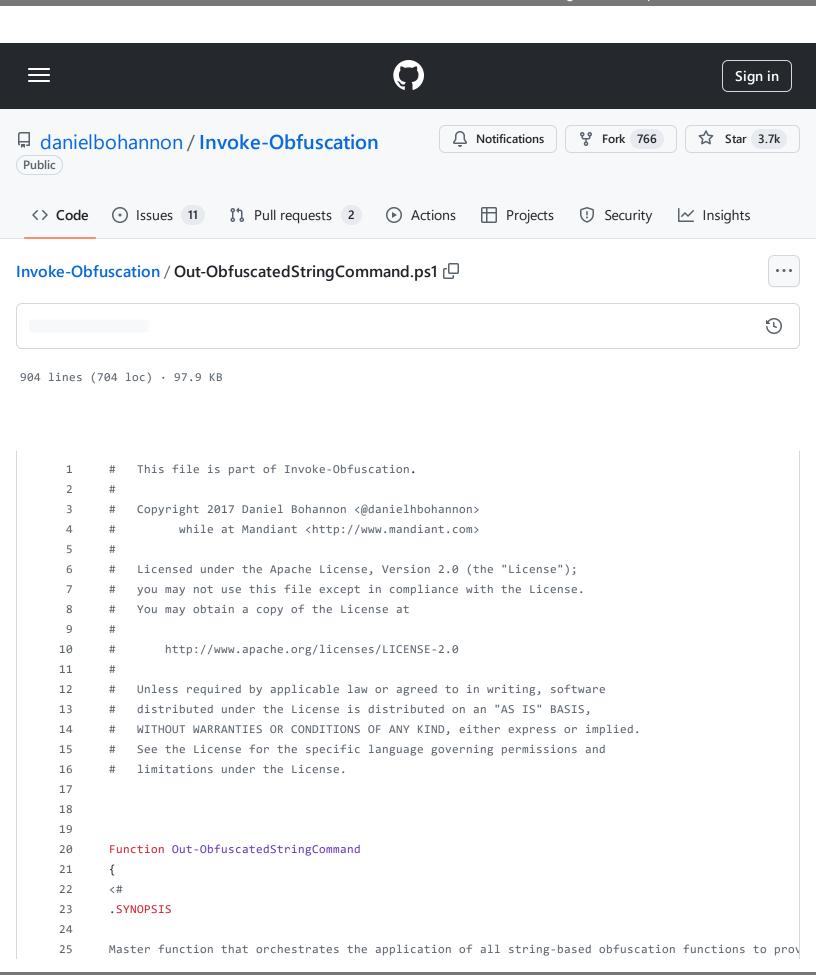
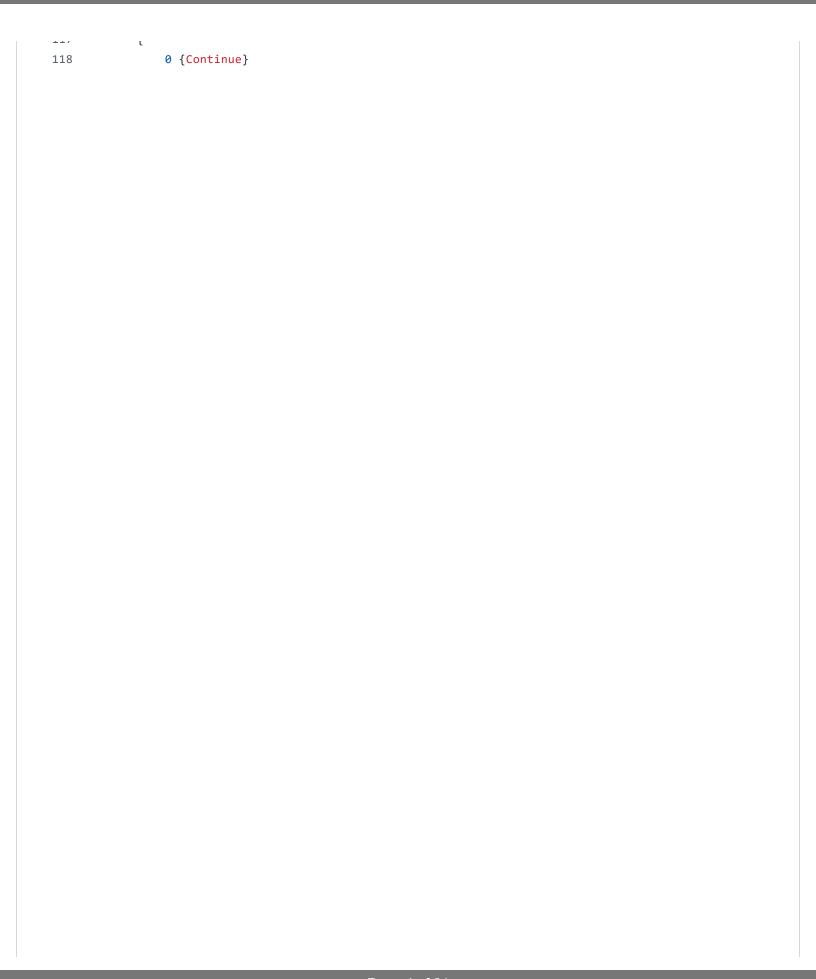
Invoke-Obfuscation/Out-ObfuscatedStringCommand.ps1 at f20e7f843edd0a3a7716736e9eddfa423395dd26 · danieIbohannon/Invoke-Obfuscation · GitHub - 31/10/2024 18:07 https://github.com/danieIbohannon/Invoke-Obfuscation/blob/f20e7f843edd0a3a7716736e9eddfa423395dd26/Out-ObfuscatedStringCommand.ps1#L873-L888



```
26
27
       Invoke-Obfuscation Function: Out-ObfuscatedStringCommand
       Author: Daniel Bohannon (@danielhbohannon)
28
       License: Apache License, Version 2.0
29
       Required Dependencies: Out-EncapsulatedInvokeExpression (located in Out-ObfuscatedStringCommand.ps/
30
31
       Optional Dependencies: None
32
33
       .DESCRIPTION
34
35
       Out-ObfuscatedStringCommand orchestrates the application of all string-based obfuscation functions
       The available ObfuscationLevel/function mappings are:
36
       1 --> Out-StringDelimitedAndConcatenated
37
38
       2 --> Out-StringDelimitedConcatenatedAndReordered
       3 --> Out-StringReversed
39
40
       .PARAMETER ScriptBlock
41
42
43
       Specifies a scriptblock containing your payload.
44
45
       .PARAMETER Path
46
       Specifies the path to your payload.
47
48
49
       .PARAMETER ObfuscationLevel
50
       (Optional) Specifies the obfuscation level for the given input PowerShell payload. If not defined \mathfrak{t}
51
       The available ObfuscationLevel/function mappings are:
52
53
       1 --> Out-StringDelimitedAndConcatenated
       2 --> Out-StringDelimitedConcatenatedAndReordered
54
       3 --> Out-StringReversed
55
56
       .EXAMPLE
57
58
       C:\PS> Out-ObfuscatedStringCommand {Write-Host 'Hello World!' -ForegroundColor Green; Write-Host '(
59
60
       IEX ((('Write-H'+'ost x'+'lcHello'+' Wor'+'ld!xlc -F'+'oregroundC'+'o'+'lor Gre'+'en'+'; Write-Host
61
62
       C:\PS> Out-ObfuscatedStringCommand {Write-Host 'Hello World!' -ForegroundColor Green; Write-Host '(
63
64
65
       IEX( (("{17}{1}{6}{19}{14}{3}{5}{13}{16}{11}{20}{15}{10}{12}{2}{4}{8}{18}{7}{9}{0}" -f ' Green','-H
66
       C:\PS> Out-ObfuscatedStringCommand {Write-Host 'Hello World!' -ForegroundColor Green; Write-Host '(
67
       $I4 ="noisserpxE-ekovnI|)93]rahC[]gnirtS[,'1Yp'(ecalpeR.)'ne'+'erG roloCd'+'nuo'+'rgero'+'F- 1'+'Y'
69
70
71
       .NOTES
```

```
72
73
        Out-ObfuscatedStringCommand orchestrates the application of all string-based obfuscation functions
74
        This is a personal project developed by Daniel Bohannon while an employee at MANDIANT, A FireEye Co
75
76
        .LINK
77
78
        http://www.danielbohannon.com
79
        #>
80
81
            [CmdletBinding( DefaultParameterSetName = 'FilePath')] Param (
82
                [Parameter(Position = 0, ValueFromPipeline = $True, ParameterSetName = 'ScriptBlock')]
                [ValidateNotNullOrEmpty()]
83
                [ScriptBlock]
84
85
                $ScriptBlock,
86
                [Parameter(Position = 0, ParameterSetName = 'FilePath')]
87
88
                [ValidateNotNullOrEmpty()]
89
                [String]
90
                $Path,
91
92
                [ValidateSet('1', '2', '3')]
93
                [Parameter(Position = 1)]
                [ValidateNotNullOrEmpty()]
94
95
                [Int]
96
                \$0bfuscationLevel = (Get-Random -Input @(1...3)) # Default to random obfuscation level if \$0
97
            )
98
99
            # Either convert ScriptBlock to a String or convert script at $Path to a String.
100
            If($PSBoundParameters['Path'])
101
                Get-ChildItem $Path -ErrorAction Stop | Out-Null
102
                $ScriptString = [IO.File]::ReadAllText((Resolve-Path $Path))
103
104
            }
            Else
105
106
107
                $ScriptString = [String]$ScriptBlock
108
            }
109
            # Set valid obfuscation levels for current token type.
110
111
            ValidObfuscationLevels = @(0,1,2,3)
112
            # If invalid obfuscation level is passed to this function then default to highest obfuscation \mathbb I
113
            If($ValidObfuscationLevels -NotContains $ObfuscationLevel) {$ObfuscationLevel = $ValidObfuscati
114
115
            Switch($ObfuscationLevel)
116
117
            ſ
```

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O	bfuscation/blob/f20e7	′1843edd0a3a771	6/36e9eddfa42	3395dd26/Out-Ob	fuscatedStringComr	nand.ps1#L8 <i>1</i> /3-L888	

```
831
        HELPER FUNCTION :: Generates random syntax for invoking input PowerShell command.
832
        Invoke-Obfuscation Function: Out-EncapsulatedInvokeExpression
833
834
        Author: Daniel Bohannon (@danielhbohannon)
835
        License: Apache License, Version 2.0
        Required Dependencies: None
836
        Optional Dependencies: None
837
838
839
        .DESCRIPTION
840
        Out-EncapsulatedInvokeExpression generates random syntax for invoking input PowerShell command. It
841
842
        .PARAMETER ScriptString
843
844
        Specifies the string containing your payload.
845
846
        .EXAMPLE
847
848
        C:\PS> Out-EncapsulatedInvokeExpression {Write-Host 'Hello World!' -ForegroundColor Green; Write-Ho
849
0-0
```

```
850
  851
          Write-Host 'Hello World!' -ForegroundColor Green; Write-Host 'Obfuscation Rocks!' -ForegroundColor
  852
          .NOTES
  853
  854
                                                                                                 ſĠ
                                                                                                           <>
                                                                                            Raw
Code
        Blame
          C:\PS> Out-ObfuscatedStringCommand {Write-Host 'Hello World!' -ForegroundColor Green; Write-Host 'Q
  857
  858
          C:\PS> Out-ObfuscatedStringCommand {Write-Host 'Hello World!' -ForegroundColor Green; Write-Host '(
          This is a personal project developed by Daniel Bohannon while an employee at MANDIANT, A FireEye Co
  859
  860
          .LINK
  861
  862
  863
          http://www.danielbohannon.com
          #>
  864
  865
              [CmdletBinding()] Param (
  866
                  [Parameter(Position = 0)]
  867
                  [ValidateNotNullOrEmpty()]
  868
                  [String]
  869
                  $ScriptString
  870
 871
              )
  872
  873
              # The below code block is copy/pasted into almost every encoding function so they can maintain
              # Changes to below InvokeExpressionSyntax block should also be copied to those functions.
  874
              # Generate random invoke operation syntax.
  875
              InvokeExpressionSyntax = @()
  876
              $InvokeExpressionSyntax += (Get-Random -Input @('IEX','Invoke-Expression'))
  877
              # Added below slightly-randomized obfuscated ways to form the string 'iex' and then invoke it w
  878
              # Though far from fully built out, these are included to highlight how IEX/Invoke-Expression is
  879
              # These methods draw on common environment variable values and PowerShell Automatic Variable va
  880
              \piInvocationOperator = (Get-Random -Input \pi('.','&')) + ' '*(Get-Random -Input \pi(0,1))
  881
              $InvokeExpressionSyntax += $InvocationOperator + "( `$ShellId[1]+`$ShellId[13]+'x')"
  882
              $InvokeExpressionSyntax += $InvocationOperator + "( `$PSHome[" + (Get-Random -Input @(4,21)) +
  883
              $InvokeExpressionSyntax += $InvocationOperator + "( `$env:ComSpec[4," + (Get-Random -Input @(15
  884
              $InvokeExpressionSyntax += $InvocationOperator + "((" + (Get-Random -Input @('Get-Variable','G√
  885
              $InvokeExpressionSyntax += $InvocationOperator + "( " + (Get-Random -Input @('$VerbosePreferenc
  886
              # Commenting below option since $env:Public differs in string value for non-English operating s
  887
              #$InvokeExpressionSyntax += $InvocationOperator + "( `$env:Public[13]+`$env:Public[5]+'x')"
  888
  889
              # Randomly choose from above invoke operation syntaxes.
  890
  891
              $InvokeExpression = (Get-Random -Input $InvokeExpressionSyntax)
  892
              # Randomize the case of selected invoke operation.
  893
              $InvokeExpression = Out-RandomCase $InvokeExpression
  894
  895
```

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```
896
            # Choose random Invoke-Expression/IEX syntax and ordering: IEX ($ScriptString) or ($ScriptString)
897
            $InvokeOptions = @()
            $InvokeOptions += ' '*(Get-Random -Input @(0,1)) + $InvokeExpression + ' '*(Get-Random -Input @
898
            \piInvokeOptions += ' '*(Get-Random -Input \pi(0,1)) + $ScriptString + ' '*(Get-Random -Input \pi(0,1)
899
900
            $ScriptString = (Get-Random -Input $InvokeOptions)
901
902
            Return $ScriptString
903
        }
904
```