```
//--\\__//--
[FightingEntropy(π)][2022.12.0]: 2022-12-15 11:10:48
---\\___//--
---\\____//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__//--\\__/--\\__//--\\__/--\\_
```

About /

https://github.com/mcc85s/FightingEntropy/blob/main/Version/2022.12.0/FightingEntropy.ps1

 $[FightingEntropy(\pi)]$ is a modification for Windows [PowerShell] that is meant for various tasks related to:

- [+] system administration
- [+] networking
- [+] virtualization
- [+] security
- [+] graphic design
- [+] system management/maintenance

...it'll eventually be usable on ALL platforms where [PowerShell] is able to be deployed.

Demo				
 Date 	Name	Url		
 10/28/22 	[FightingEntropy(π)][2022.10.1]	https://youtu.be/S7k4lZdPE-I		

This module is rather experimental and incorporates a lot of moving parts, so it has many areas of development.

The end goal of this module, is to provide protection against:

- [+] identity theft
- [+] cybercriminals
- [+] douchebags
- [+] malware
- [+] |||atware
- [+] ransomware
- [+] hackers who have malicious intent

Many of the tools in the wild are able to be circumvented by some of these hackers and cybercriminals. If you don't believe me...? That's fine.

That's why this link to a particular website about a particular event, exists,

https://en.wikipedia.org/wiki/2020_United_States_federal_government_data_breach |

Even the experts make mistakes.

[FightingEntropy(π)] is meant to extend many of the capabilities that come with Windows.

This file acts as the installation/removal process as well as for performing validation and testing purposes.

It is effectively a shell of the entire module, and can be used to implement updates to the module itself, in a similar manner to how (Continuous Integration/Continuous Development) works.

[FightingEntropy(π)][2022.12.0]			
Version	Date	Guid	
2022.10.1	12/14/2022 14:26:18	 5e6c9634-1c88-49a2-8794-2970095d8793	

Todo		
PS Core	Filter out stuff for PS Core, by building a different manifest	
PS Server	Filter out stuff for PS Server, **	

```
Function FightingEntropy.Module
     [CmdLetBinding()]Param([Parameter()][UInt32]$Mode=0)
     Class ThemeBlock
          [UInt32]
          [Object]
          [UInt32]
          [UInt32]
          ThemeBlock([Int32]$Index,[String]$String,[Int32]$Fore,[Int32]$Back)
               $This.Index = $Index
$This.String = $String
$This.Fore = $Fore
$This.Back = $Back
$This.Last = 1
          Write([UInt32]$0,[UInt32]$1,[UInt32]$2,[UInt32]$3)
               $Splat = @{
                    Object = $This.String
ForegroundColor = @($0,$1,$2,$3)[$This.Fore]
BackgroundColor = $This.Back
NoNewLine = $This.Last
               Write-Host @Splat
          [String] ToString()
               Return "<FightingEntropy.Module.ThemeBlock>"
     Class ThemeTrack
          [UInt32] $
          [Object]
          ThemeTrack([UInt32]$Index,[Object]$Track)
              $This.Index = $Index
$This.Content = $Track
          [String] ToString()
               Return "<FightingEntropy.Module.ThemeTrack>"
    Class ThemeStack
          Hidden [Object] $Face
Hidden [Object] $Track
```

```
ThemeStack([UInt32]<mark>$Slot,[</mark>String]<mark>$</mark>N
      $This.Main($Message)
$Object = $This.Palette($Slot)
      $0bject = $This
$This.Write($0b
ThemeStack([String]$Message)
     $This.Main($Message)
$Object = $This.Palette(0)
$This.Write($Object)
Main([String]$Message)
     $This.Face = $This.Mask()
$This.Reset()
$This.Insert($Message)
[UInt32[]] Palette([UInt32]$Slot)
      If ($Slot -gt 35)
           Throw "Invalid entry"
     Return @( Switch ($Slot)
           00 {10,12,15,00} 01 {12,04,15,00} 02 {10,02,15,00} # Default, R*/Error, G*/Success 03 {01,09,15,00} 04 {03,11,15,00} 05 {13,05,15,00} # B*/Info, C*/Verbose, M*/Feminine
           06 {14,06,15,00} 07 {00,08,15,00} 08 {07,15,15,00} # Y*/Warn, K*/Evil, 09 {04,12,15,00} 10 {12,12,15,00} 11 {04,04,15,00} # R!, R+, 12 {02,10,15,00} 13 {10,10,15,00} 14 {02,02,15,00} # G!, G+, 15 {09,01,15,00} 16 {09,09,15,00} 17 {01,01,15,00} # B!, B+,
           18 {11,03,15,00} 19 {11,11,15,00} 20 {03,03,15,00} # C!,
           21 {05,13,15,00} 22 {13,13,15,00} 23 {05,05,15,00} # M!,

24 {06,14,15,00} 25 {14,14,15,00} 26 {06,06,15,00} # Y!,

27 {08,00,15,00} 28 {08,08,15,00} 29 {00,00,15,00} # K!,
           30 {15,07,15,00} 31 {15,15,15,00} 32 {07,07,15,00} # W!,
           33 {11,06,15,00} 34 {06,11,15,00} 35 {11,12,15,00} # Steel*, Steel!,
     })
[Object] Mask()
     Return ("20202020 5F5F5F5F AFAFAFAF 2020202F 5C202020 2020205C 2F202020 5C5F5F2F "+
"2FAFAF5C 2FAFAFAF AFAFAF5C 5C5F5F5F 5F5F5F2F 205F5F5F" -Split " ") | % { $This.Convert($_) }
[String] Convert([String]$Line)
     Return [Char[]]@(0,2,4,6 | % { "0x$($Line.Substring($_,2))" | IEX }) -join ''
Add([String]$Mask,[String]$Fore)
                          = Invoke-Expression $Mask | % { $This.Face[$_] }
= Invoke-Expression $Fore
                          = @(0)*30
     = [ThemeBlock]::New($X,$Object[$X],$FG[$X],$BG[$X])
           If ($X -eq $0bject.Count-1)
                 $Item.Last = 0
               lash.Add($Hash.Count,$Item)
```

```
$This.Track += [ThemeTrack]::New($This.Track.Count,$Hash[0..($Hash.Count-1)])
     [Void] Reset()
          $This.Track = @( )
          # // | Generates default tracks |
          $This.Add("0,1,0+@(1)*25+0,0","@(0)*30")

$This.Add("3,8,7,9+@(2)*23+10,11,0","0,1,0+@(1)*25+0,0")

$This.Add("5,7,9,13+@(0)*23+12,8,4","0,1,1+@(2)*24+1,1,0")

$This.Add("0,10,11+@(1)*23+12+8,7,6","0,0+@(1)*25+0,1,0")

$This.Add("0,0+@(2)*25+0,2,0","@(0)*30")
     Insert([String]$String)
          $This.Reset()
          Switch ($String.Length)
               {$_ -lt 84}
                    $String += (@(" ") * (84 - ($String.Length+1)) -join '' )
               {$_ -ge 84}
                    $String = $String.Substring(0,84) + "..."
          }

$Array = [Char[]]$String
          $Array = [Chai
$Hash = @{ }
          ForEach ($X in 0..($Array.Count-1))
               If ($X % 4 -eq 0 -and $Block -ne "")
                     $Hash.Add($Hash.Count,$Block)
          ForEach ($X in 0..($Hash.Count-1))
               $This.Track[2].Content[$X+3].String = $Hash[$X]
     [Void] Write([UInt32[]]$Palette)
          $0,$1,$2,$3 = $Patecce
ForEach ($Track in $This.Track)
               ForEach ($Item in $Track.Content)
                   $Item.Write($0,$1,$2,$3)
     [String] ToString()
          Return "<FightingEntropy.Module.ThemeStack>"
Class OSProperty
```

```
[String]
    Hidden [UInt32] $Index
    [String]
    [Object]
    OSProperty([String]$Source,[UInt32]$Index,[String]$Name,[Object]$Value)
        $This.Source = $Source
$This.Index = $Index
$This.Name = $Name
$This.Value = $Value
    [String] ToString()
        Return "<FightingEntropy.Module.OSProperty>"
Class OSPropertySet
    Hidden [UInt32] $Index
    [String]
    [Object]
    OSPropertySet([UInt32] $Index, [String] $Source)
        $This.Index = $Index
$This.Source = $Source
$This.Property = @( )
    Add([String]$Name,[Object]$Value)
        $This.Property += [OSProperty]::New($This.Source,$This.Property.Count,$Name,$Value)
    [String] ToString()
        $D = ([String]$This.Property.Count).Length
Return "({0:d$D}) <FightingEntropy.Module.OSPropertySet[{1}]>" -f $This.Property.Count, $This.Source
Class OS
    [Object]
    [Object]
    [Object]
    [Object]
    [Object]
    0S()
        $This.Output = @( )
        $This.AddPropertySet("Environment")
        # // | Variable |
        $This.AddPropertySet("Variable")
```

```
Get-ChildItem Variable:
                                      $This.AddPropertySet("Host")
    (Get-Host).PSObject.Properties | % { $This.Add(2,$_.Name,$_.Value) }
   $This.AddPropertySet("PowerShell")
   (Get-Variable PSVersionTable | % Value).GetEnumerator() | % { $This.Add(3,$_.Name,$_.Value) }
    If ($This.Tx("PowerShell","PSedition") -eq "Desktop")
        Get-CimInstance Win32_OperatingSystem | % { $This.Add(3,"OS","Microsoft Windows $($..Version)") }
            is.Add(3,"Platform","Win32NT")
    $This.Caption = $This.Tx("PowerShell","OS")
$This.Platform = $This.Tx("PowerShell","Platform")
$This.PSVersion = $This.Tx("PowerShell","PSVersion")
$This.Type = $This.GetOSType()
[Object] Tx([String]$Source,[String]$Name)
    Return $This.Output | ? Source -eq $Source | % Property | ? Name -eq $Name | % Value
Add([UInt32]$Index,[String]$Name,[Object]$Value)
    $This.Output[$Index].Add($Name,$Value)
AddPropertySet([String]$Name)
    $This.Output += [OSPropertySet]::New($This.Output.Count,$Name)
[String] GetWinCaption()
   Return "[wmiclass]'Win32_OperatingSystem' | % GetInstances | % Caption"
[String] GetWinType()
   Return @(Switch -Regex (Invoke-Expression $This.GetWinCaption())
        "Windows (10|11)" { "Win32_Client" } "Windows Server" { "Win32_Server" }
   })
[String] GetOSType()
    Return @( If ($This.Version.Major -gt 5)
        If (Get-Item Variable:\IsLinux | % Value)
            (hostnamectl | ? { $_ -match "Operating System" }).Split(":")[1].TrimStart(" ")
            $This.GetWinType()
```

```
s.GetWinType()
                          })
             [String] ToString()
                          Return "<FightingEntropy.Module.OS>"
# // | Manifest file -> filesystem object (collection/validation) |
Class File
            Hidden [UInt32]
             [String]
              [String]
             [String]
             [UInt32]
            Hidden [String]
            Hidden [String]
            Hidden [UInt32]
            Hidden [Object] $Content
File([UInt32]$Index,[String]$Type,[String]$Parent,[String]$Name,[String]$Hash)
                             This.Index
This.Type
                           $\text{state} \text{state} = \text{$Name} \\
$\text{$This.Hash} = \text{$Hash} \\
$\text{$This.TestPath()}
$\text{$T
                                            .Name
              [String] FolderName()
                          Return @{
                                      Control = "Control"
Function = "Functions"
Graphic = "Graphics"
                          }[$This.Type]
              TestPath()
                           $This.Exists = [System.IO.File]::Exists($This.Fullname)
              }
              [Void] Create()
                           $This.TestPath()
                          If (!$This.Exists)
                                        [System.IO.File]::Create($This.Fullname).Dispose()
                                         $This.Exists = 1
              [Void] Delete()
                           $This.TestPath()
                          If ($This.Exists)
                                        [System.IO.File]::Delete($This.Fullname)
                                         $This.Exists = 0
              SetSource([String]$Source)
                          his.FolderName(),
```

```
Download()
        $This.Content = Invoke-WebRequest $This.Source -UseBasicParsing | % Content
        Throw "Exception [!] An unspecified error occurred"
Write()
    If (!$This.Content)
        Throw "Exception [!] Content not assigned, cannot (write/set) content."
    If (!$This.Exists)
        Throw "Exception [!] File does not exist."
        If ($This.Name -match "\.+(jpg|jpeg|png|bmp|ico)")
            [System.IO.File]::WriteAllBytes($This.Fullname,[Byte[]]$This.Content)
            [System.IO.File]::WriteAllText($This.Fullname,
                                                .Content,
                                           [System.Text.UTF8Encoding]$False)
        Throw "Exception [!] An unspecified error has occurred"
GetContent()
    If (!$This.Exists)
        Throw "Exception [!] File does not exist, it needs to be created first."
        If ($This.Name -match "\.+(jpg|jpeg|png|bmp|ico)")
               is.Content = [System.IO.File]::ReadAllBytes($This.Fullname)
            $This.Content = [System.IO.File]::ReadAllLines($This.Fullname,
                                                           [System.Text.UTF8Encoding]$False)
        Throw "Exception [!] An unspecified error has occurred"
[String] ToString()
   Return "<FightingEntropy.Module.File>"
```

.Name

```
Class Folder
    Hidden [UInt32]
    [String]
    [String]
    [String]
    [UInt32]
    Hidden [Object]
          index = $Index
This.Type = $Type
This.Name = $Name
This.Fullname = "$Parent\$Name"
This.Item = @( )
This.TestPath()
    Folder([UInt32] $Index, [String] $Type, [String] $Parent, [String] $Name)
          This.Index
This.Type
    Add([String]$Name,[Object]$Hash)
                          = [File]::New($This.Item.Count,$This.Type,$This.Fullname,$Name,$Hash)
         If ($File.Exists)
                           = Get-FileHash $File.Fullname | % Hash
             If ($Hash -eq $File.Hash)
                  $File.Match = 1
             If ($Hash -ne $File.Hash)
                  $File.Match = 0
         $This.Item += $File
    TestPath()
         If (!$This.Fullname)
             Throw "Exception [!] Resource path not set"
         $This.Exists = [System.IO.Directory]::Exists($This.Fullname)
    [Void] Create()
         $This.TestPath()
         If (!$This.Exists)
             [System.IO.Directory]::CreateDirectory($This.Fullname)
              This.Exists = 1
    [Void] Delete()
         $This.TestPath()
         If ($This.Exists)
             [System.IO.Directory]::Delete($This.Fullname)
              This.Exists = 0
    [String] ToString()
         D = [String] This.Item.Count).Length  
Return "({0:d$D}) <FightingEntropy.Module.Folder[{1}]>" -f $This.Item.Count, $This.Name
                           his.Item.Count).Length
```

```
}
                             | File manifest container, laid out for hash (insertion+validation) |
Class Manifest
                          [String]
                         [String]
                         Hidden [UInt32] $Denth
                        Hidden [UInt32] $Total
                          [Object]
                        Manifest([String]$Source,[String]$Resou
                                                   $This.Source = $Source
$This.Resource = $Resource
$This.Output = @( )
                                                   $This.AddFolder("Control", "Control")
                                                                                                                                                                                                                                                                                          "87EAB4F74B38494A960BEBF69E472AB0764C3C7E782A3F74111F993EA31D1075"),
"939CE697246AAC96C6F6A4A285C8EE285D7C5090523DB77831FF76D5D4A31539"),
"59D479A0277CFFDD57AD8B9733912EE1F3095404D65AB630F4638FA1F40D4E99"),
"B3EB870C6B4206D11C921E70C6D058777A5F69FD1D9DEA8B6071759CAFCD2593"),
"55A881BFE436EF18C104BFA51ECF6D12583076D576BA3276F53A682E056ACA5C"),
"38F1E2D061218D31555F35C729197A32C9190999EF548BF98A2E2C2217BBCB88"),
"C22C53DAAB87AAC06DC3AC64F66C8F6DF4B7EAE259EC5D80D60E51AF82055231"),
"3724FE189D8D2CFBA17BC2A576469735B1DAAA18A83D1115169EFF0AF5D42A2F"),
"100B5CA10BCF99E2A8680C394266042DEA5ECA300FBDA33289F6E4A17E44CBCF"),
"4175C9569C8DFC1F14BADF70395D883BDD983948C2A6633CBB6611430A872C7"),
"44757AB0E2D3FFFFDBA93558A34AC8E36F972B6F33D00C4ADFB912AE1F6D6CE2"),
"9BD91057A1870DB087765914EAA5057D673CDC33145D804BBF4B024A11D66934"),
"698AA48C98F500C6ED98305BCCA3C59C52784A664E01526D965A07AB24E47A2A"),
"45D5F4B9B50782CEC4767A7660583C68A6643C02FC7CC4F0AE5A79CCABE83021")| % {
                                               ("Computer.png"
("DefaultApps.xml"
("failure.png"
("FEClientMod.xml"
("FEServerMod.xml"
("header-image.png"
("MDTClientMod.xml"
("MDTServerMod.xml"
("MDT_LanguageUI.xml"
("PSDClientMod.xml"
("PSDServerMod.xml"
("Success.png"
("vendorlist.txt"
                                                  ("vendorlist.txt"
("Wifi.cs"
("zipcode.txt"
                                                                             $This.Add(0,$_[0],$_[1])
                                                   $This.AddFolder("Function", "Functions")
                                                                                                                                                                                                                                                                                         "51D78BCE84D5EC2FABF85F87078D8E42179B19195E546371FC439E4B6171A0B9")
"F2D1C0AD58A91CBF432A2AC793C8CD1313EB6F1A61C50D681130322C358CDAE7")
"BF83DAAF1D8D53A39A5C5402A6BA9DEEA3DF32D37F38214DD93D1EBBE314942D")
"96F00FD11983FF80BCB62C70826DB9B1608C84448C68E9C52857A224CA0054F6")
"D0FB5197A191B28BA5ABB1577A7C27A6684373C2FCC1F4E88628E2E4FDB72925")
"F91B1681063A5142129E40DD7F77F2D99813B6089B4D45E6F0DE5AA28FA01099")
"B270065C25EAB6183A10043858F56256059D070CC2E0D37A4352D379A36ACAF5")
"113E9EB104D983F1F990D738E1EA89E685B70270B6B856E16F16A40E8748CDE6")
"8B738D1B551BC14C6FD8D003A82E420CDA17ED865FFD83D6E3A392F40CF20145")
"18554029561A277AEB5AAA643CF88DC43F3A7C2D97281EEBD47A03BEE6018D84")
"492CBAB21ACCB448864B382B140ED72514DEEB015C7BBD282C649B0CEE262DE7")
"00CE6466444BD4DF76B40A98D1D1E297012CAE7AAFA5FEF92C36AD9AA4CD43D2A")
"03AD403FA17EE0702A8D8911F8B4BD7AABE5C6971363AF2FFADE6FF83918D57F")
"EEC6136D19426728E09571D55B983667AC99139EC02229B5390447B4894E7AFF4")
"552CC93F8F21BCC2CC3CB1F0EBD447699E7EC41B1D4A8372C0839997CE48906E")
"0016BDDB9B0BA9BB59652440FE0B758D88BF42A887F93B275F57016CCE4999C8")
"FE2C64E64DD76EC5B1B26E7BF4CF64C861416383974E63FDFE4499B09206C97F")
"FC61D8D17B22A6AC2AE343A3EA7A07DBF868D918C85D302DF771862306CB824A")
"7F5E35535A4450D02092D8A87266F136EEBD979F9505D8D481A4F5E38E74BF02")
"48E4729380C40876B13DE0FD6CAC735B05B76D78CE86636F9258D1F3D60AD6B0")
"7657A559ED53E31AC69C3848CAD83B52D6F22D8D4F12EBF4BE223DF315F5DAD2")
"2C7DC771C2BECE4DF20C41567E4944C836FC7D6592C3451DAA798010DC50CACB")
                                                  ("Copy-FileStream.ps1"
("Get-AssemblyList.ps1"
("Get-ControlExtension.ps1"
                                              ("Get-ControlExtension.ps1"
  ("Get-EnvironmentKey.ps1"
  ("Get-EventLogArchive.ps1"
  ("Get-EventLogConfigExtension.ps1"
  ("Get-EventLogController.ps1"
  ("Get-EventLogProject.ps1"
  ("Get-EventLogRecordExtension.ps1"
  ("Get-EventLogXaml.ps1"
  ("Get-FEADLogin.ps1"
  ("Get-FEDCPromo.ps1"
  ("Get-FEImageManifest.ps1"
  ("Get-FEModule.ps1"
  ("Get-FENetwork.ps1"
  ("Get-FENetwork.ps1"
  ("Get-FEROle.ps1"
                                                 ("Get-FENetwork.ps1"
("Get-FERole.ps1"
("Get-FESystemDetails.ps1"
("Get-MDTModule.ps1"
("Get-PowerShell.ps1"
("Get-PropertyItem.ps1"
("Get-PropertyObject.ps1"
("Get-PSDLog.ps1"
```

```
"FEBF687E9A97A413576DD515DE7184D4E71AA8EC61737A53EC39F5BDB11588FF"),
"CF59887548D790EE8B4D339450BFC1D64227F68CC4E555C877B9AFDD54CB5EBD"),
"66C2078C9CC0621CE911CCE301490BA36214CECC9415F982CC819651FD1E9E66"),
"A4548F9C2C730AE0714528642CCCDF0D6F35C9DD8D75DEC357ED7F164B76357E"),
"A677D8026F18FBFF78C614CD3FC71BD6BE46EDC142D66CF9402EABAB9D988DCE"),
"25524DA6A444325BBFC5B4D4A863DE607B417CD4F3F57666627ECD9CB295AA07A"),
"48F53BF8A3ECD087E7F395AA19F86D32849CD4F14B599F2AC6F7330F083E0D6C"),
"0E0513C6BA4D98D1786E8606ABD5F6198947ADD43757E14D8138650DAB8D367F"),
"08ADF0105650B39381145D9018FF451FF03451F46B7FA28F0DE17208BE12E6EB"),
"B2F51FA6AFCFD499DE96CFD7458E216832B36204BB542FDB416471058603D04C"),
"C4BFF5D8FBAC5ADBB79FEF848CE64A3C333C351EC1F50AC02468FCC0341AAAF4"),
"04C48E828FEF3DDCC6B07D914D088AB471B6C768C10F2DD38FD230A5B0566F67"),
"614FFE3CDC091001E46CEEBAF69AC2FE8C22D517E9F97DD85CBA8B037EC890AA"),
"60EE87AE8A1ADE31C2530BF3EC8E4BC03221692E599750265CE807648F9583E9"),
"661B9C815FF1BAEEE4400F65126741177D6F5D122161EF0093309A9067B8344E"),
"EEA44AEEC98B7049F7273CDDCF58FCBD1702DDDEE1EB3C11B71DD76D30879F662"),
"DF937F03130E85B90CC22301DBDF89718F0EB7995104EC9DF443090FDDA3E8FA")| % {
          ("Get-ThreadController.ps1"
("Get-ViperBomb.ps1"
("Get-WhoisUtility.ps1"
          ("Install-BossMode.ps1"
("Install-IISServer.ps1"
("Install-PSD.ps1"
          ("Invoke-cimdb.ps1"
("New-EnvironmentKey.ps1"
          ("New-FEFormat.ps1"
          ("Search-WirelessNetwork.ps1"
          ("Set-ScreenResolution.ps1"
          ("Show-ToastNotification.ps1"
          ("Update-PowerShell.ps1"
("Write-Theme.ps1"
                    $This.Add(1,$_[0],$_[1])
         $This.AddFolder("Graphic", "Graphics")
                                                                                                   , "94FD6CB32F8FF9DD360B4F98CEAA046B9AFCD717DA532AFEF2E230C981DAFEB5"),
, "057AF2EC2B9EC35399D3475AE42505CDBCE314B9945EF7C7BCB91374A8116F37"),
, "594DAAFF448F5306B8B46B8DB1B420C1EE53FFD55EC65D17E2D361830659E58E"),
, "D4331207D471F799A520D5C7697E84421B0FA0F9B574737EF06FC95C92786A32"),
, "98BF79CAE27E85C77222564A3113C52D1E75BD6328398871873072F6B363D1A8"),
, "05ABBABDC9F67A95D5A4AF466149681C2F5E8ECD68F11433D32F4C0D044446F7E"),
, "87C2B016401CA3F8F8FAD5F629AFB3553C4762E14CD60792823D388F87E2B16C")] % {
         ("background.jpg"
("banner.png"
          ("icon.ico"
                                          und.bmp"
          ("sdplogo.png"
                    $This.Add(2,$_[0],$_[1])
          $This.Total = ($This.Output | % Item).Count
$This.Depth = ([String]$This.Total).Length
Add([UInt32]$Index,[String]$Name,[String]$Hash)
          $This.Output[$Index] | % {
                    $_.Add($Name,$Hash)
                     $_.Item[-1].SetSource($This.Source)
AddFolder([String]$Type,[String]$Name)
          $This.Output += [Folder]::New($This.Output.Count,$Type,$This.Resource,$Name)
[String] Status([UInt32]$Rank)
         Return "({0:d$($This.Depth)}/{1})" -f ($Rank+1), $This.Total
[String] Percent([UInt32]$Rank)
         Return "{0:n2}" -f (($Rank/$This.Total) * 100)
Refresh()
         $This.Output | % { $_.TestPath(); $_.Item | % TestPath }
Install()
          $This.Refresh()
         $This.Output | ? Exists -eq 0 | % Create
         $List = $This.Output | % Item
ForEach ($X in 0..($List.Count-1))
```

```
$File = $List[$X]
$File.TestPath()
              If (!$File.Exists)
                   $File.Create()
$File.Download()
$File.Write()
$File.TestPath()
              }
Write-Host ("Installed [~] {0} {1}% -> {2}" -f $This.Status($\),
$This.Percent($\)),
                                                                        SFile.Name)
     Remove()
          $This.Refresh()
         $List = $This.Output | % Item
ForEach ($X in 0..($List.Count-1))
              $File = $List[$X]
$File.TestPath()
If ($File.Exists)
                  $File.Delete()
$File.TestPath()
              $This.Output | ? Exists -eq 1 | % Delete
     [Object] List()
         Return @(ForEach ($Folder in $This.Output)
               Folder | % Item
         })
     [Object] Files([UInt32]$Index)
         Return $This.Output[$Index] | % Item
     [Object] Full()
         $D = "Index Type Name Hash Exists Fullname Source Match" -Split " "
Return $This.Output | % Item | Select-Object $D
     [String] ToString()
         Return "<FightingEntropy.Module.Manifest>"
Class Template
     [String]
     [String]
     [String]
     [String]
     [String]
     [String]
     [Guid]
     [DateTime]
```

```
[String]
    [String]
    [String]
    [String]
    [String]
    [String]
    [String]
    [String]
    Template([Object]$Module)
                             $Module.Source
             .Source
             .Name
              .Description =
                                    .Description
             .Author
                                    .Author
              .Company
                                    .Company
                                     .Copyright
              .Copyright
                                     .Guid
              .Guid
                                    .Date
             .Date
              .Caption
                                    .OS.Caption
              .Platform
                                    .OS.Platform
                             SModute.05.
Module.0S.Type
                                    .Root.Registry
              .Registry
                              $Module.Root.Resource
              .Resource
                             $Module.Root.Module
$Module.Root.File
             .Module
             .File
                           = $Module.Root.Manifest
           is.Manifest
Class RootProperty
    [String]
    [String]
    [String]
    [UInt32]
    Hidden [String]
    RootProperty([String]$Name,[UInt32]$Type,[String]$Fullname)
                        = Switch ($Type) { 0 { "Directory" } 1 { "File" } }
             .Name
             .Fullname =
             .Path
         $This.TestPath()
    TestPath()
        $This.Exists = Test-Path $This.Path
    Create()
        $This.TestPath()
        If (!$This.Exists)
            Switch -Regex ($This.Name)
                 "(Resource|Module)"
                     [System.IO.Directory]::CreateDirectory($This.Fullname)
                     [System.IO.File]::Create($This.Fullname).Dispose()
            $This.TestPath()
```

```
Remove()
           $This.TestPath()
           If ($This.Exists)
                Switch -Regex ($This.Name)
                      "(Resource|Module)"
                            [System.IO.Directory]::Delete($This.Fullname)
                       "(File|Manifest)"
                            [System.IO.File]::Delete($This.Fullname)
                     is.Exists = 0
     [String] ToString()
          Return $This.Path
Class Root
      [Object]
      [Object]
      [Object]
      [Object]
      [Object]
      [Object]
     Root([String]$Version,[String]$Resource,[String]$Path)
           $SDP = "Secure Digits Plus LLC"
$FE = "FightingEntropy"
$This.Registry = $This.Set(0,0,"HKLM:\Software\Policies\$SDP\$FE\$Version")
$This.Resource = $This.Set(1,0,"$Resource")
$This.Module = $This.Set(2,0,"$Path\$FE")
$This.File = $This.Set(3,1,"$Path\$FE\$FE.psm1")
$This.Manifest = $This.Set(4,1,"$Path\$FE\$FE.psd1")
$This.Shortcut = $This.Set(5,1,"$Env:Public\Desktop\$FE.lnk")
      [String] Slot([UInt32]$Type)
           Return @("Registry", "Resource", "Module", "File", "Manifest", "Shortcut")[$Type]
      [Object] Set([UInt32]$Index,[UInt32]$Type,[String]$Path)
           Return [RootProperty]::New($This.Slot($Index),$Type,$Path)
      [Void] Refresh()
           $This.List() | % { $_.TestPath() }
      [Object[]] List()
           Return $This.PSObject.Properties.Name | % { $This.$_ }
      [String] ToString()
           Return "<FightingEntropy.Module.Root>"
```

```
Class RegistryKeyTemp
    Hidden [Microsoft.Win32.RegistryKey] $Key
Hidden [Microsoft.Win32.RegistryKey] $Subkey
     [String]
     [String]
     [String]
     [String]
     ### String | $Fullname
     RegistryKeyTemp([String] $Path)
          $This.Fullname = $Path
$Split = $Path -Split "\\"
$This.Hive = $Split[0]
$This.Name = $Split[-1]
          $This.Hive
$This.Name
            This.Name = $Spite(-1)
This.Enum = Switch -Regex ($This.Hive)
              HKLM: {"LocalMachine"} HKCU: {"CurrentUser"} HKCR: {"ClassesRoot"}
                          = $Path -Replace "$($This.Hive)\\", "" | Split-Path -Parent
     Open()
                            = $This.Enum
          $This.Key = [Microsoft.Win32.Registry]::$X.CreateSubKey($This.Path)
     Create()
          If (!$This.Key)
               Throw "Must open the key first."
          $This.Subkey = $This.Key.CreateSubKey($This.Name)
Write-Host "Registry [+] Path: [$($This.Fullname)]"
     Add([String]$Name,[Object]$Value)
          If (!$This.Subkey)
               Throw "Must create the subkey first."
          $This.Subkey.SetValue($Name,$Value)
Write-Host "Key [+] Property: [$Name], Value: [$Value]"
     [Void] Delete()
          If ($This.Key)
               $This.Key.DeleteSubKeyTree($This.Name)
Write-Host "Registry [-] Path [$($This.Fullname)"
     [Void] Dispose()
          If ($This.Subkey)
                $This.Subkey.Flush()
$This.Subkey.Dispose()
          If ($This.Key)
                $This.Key.Flush()
$This.Key.Dispose()
```

```
Represents an individual registry key for the module
Class RegistryKeyProperty
    Hidden [UInt32] $Index
    [String]
     [Object]
    [UInt32]
    RegistryKeyProperty([UInt32]$Index,[String]$Name,[Object]$Value)
        $This.Index = $Index
$This.Name = $Name
$This.Value = $Value
    [String] ToString()
         Return "<FightingEntropy.Module.RegistryKeyProperty>"
Class RegistryKey
     [String]
    [UInt32]
    [Object]
    RegistryKey([Object]$Module)
        $This.Path
$This.TestPath()
If ($This.Exists)
                              = $Module.Root.Registry.Path
                             = Get-ItemProperty $This.Path
:y = $This.Inject($0bject)
             $0bject = $Module.Template()
$This.Property = $This.Inject($0bject)
     [Object] Inject([Object]$Object)
                               = @{ }
         $0bject.PSObject.Properties | ? Name -notmatch ^PS | % {
              $Item = $This.Key($Hash.Count,$_.Name,$_.Value)
$Item.Exists = $This.Exists
$Hash.Add($Hash.Count,$Item)
        Return $Hash[0..($Hash.Count-1)]
    TestPath()
         $This.Exists = Test-Path $This.Path
    [String] Status([UInt32]$Rank)
        $D = ([String]$This.Property.Count).Length
Return "({0:d$D}/{1})" -f $Rank, $This.Property.Count
    Install()
         $This.TestPath()
         If ($This.Exists)
              Throw "Exception [!] Path already exists"
```

```
= $This.RegistryKeyTemp($This.Path)
           Key.Open()
Key.Create()
          $This.Exists = 1
          ForEach ($X in 0..($This.Property.Count-1))
              $Item = $This.Property[$X]
$key.Add($Item.Name,$Item.Value)
$Item.Exists = 1
              y.Dispose()
    Remove()
         $This.TestPath()
         If (!$This.Exists)
               Throw "Exception [!] Registry path does not exist"
                              = $This.RegistryKeyTemp($This.Path)
           Key . Open()
           Key.Create()
Key.Delete()
         ForEach ($Item in $This.Property)
               $Item.Exists = 0
          $This.Exists = 0
$Key.Dispose()
     [Object[]] List()
         Return $This.Output
     [Object] Key([UInt32]<mark>$Index</mark>,[String]<mark>$Name</mark>,[Object]<mark>$Value)</mark>
         Return [RegistryKeyProperty]::New($Index,$Name,$Value)
     [Object] RegistryKeyTemp([String]$Path)
         Return [RegistryKeyTemp]::New($Path)
     [String] ToString()
         Return "<FightingEntropy.Module.RegistryKey>"
Class FEVersion
     [Version]
    Hidden [DateTime] $Time
     [String]
     [Guid]
     FEVersion([String]$Line)
          $This.Version = $This.Tx(0,$Line)
$This.Time = $This.Tx(1,$Line)
$This.Date = $This.MilitaryTime()
$This.Guid = $This.Tx(2,$Line)
```

```
FEVersion([Switch]$New,[String]$Version)
         $This.Version = $Version
$This.Time = [DateTime]::Now
$This.Date = $This.MilitaryTime()
          This.Guid = [Guid]::NewGuid()
     [String] MilitaryTime()
         Return $This.Time.ToString("MM/dd/yyyy HH:mm:ss")
     [String] Tx([UInt32]$Type,[String]$Line)
             0 { "\d{4}\.\d{2}\.\d+" }
1 { "\d{2}\\d{2}\\d{4} \d{2}:\d{2}" }
             2 { @(8,4,4,4,12 | % { "[a-f0-9]{$_}" }) -join '-' }
        Return [Regex]::Matches($Line,$Pattern).Value
    [String] ToString()
         Class ValidateFile
    [String]
    [String]
    Hidden [String] $Fullname
Hidden [String] $Source
    [String]
    [UInt32]
    [String]
    ValidateFile([String]$Leaf,[Object]$File)
         $This.Type = $File.Type
$This.Name = $File.Name
$This.Fullname = $File.Fullname
$This.Hash = $File.Hash
         $This.Hash
$This.Source
                         = $File.Hash
= $File.Source
         # // _____
# // | Temporary variables |
                     = Invoke-WebRequest $This.Source -UseBasicParsing | % Content
= "{0}\{1}" -f $Env:Temp, $This.Name
         If ([System.IO.File]::Exists($Target))
             [System.IO.File]::Delete($Target)
         If ($This.Name -match "\.+(jpg|jpeg|png|bmp|ico)")
             [System.IO.File]::WriteAllBytes($Target,[Byte[]]$Content)
             [System.IO.File]::WriteAllText($Target,$Content,[System.Text.UTF8Encoding]$False)
```

```
$This.Compare = $This.GetFileHash($Target)
$This.Match = $This.Hash -eq $This.Compare
             [System.IO.File]::Delete($Target)
      [String] GetFileHash([String]$Pat
             If (![System.IO.File]::Exists($Path))
                  Throw "Invalid path"
            Return Get-FileHash $Path | % Hash
Class Validate
      [Object]
      Validate([Object]$Module)
             $Hash = 0{ }
ForEach ($Branch in $Module.Manifest.Output)
                  Write-Host ("Path [~] [{0}]" -f $Branch.Fullname)
ForEach ($File in $Branch.Item)
                         Write-Host "File [~] [$($File.Fullname)]"
$Hash.Add($Hash.Count,$This.ValidateFile($Branch.Name,$File))
            $This.Output = $Hash[0..($Hash.Count-1)]
      [Object] ValidateFile([String]$Name,[Object]$File)
            Return [ValidateFile]::New($Name, $File)
      [String] BuildManifest()
             $MaxName = ($This.Output.Name | Sort-Object Length)[-1]
Return @( $This.Output | % {
            Return @( $T
                   " (`"{0}`"{1}, `"{2}`")," -f $_.Name,
(@(" ") * ($MaxName.Length - $_.Name.Length + 1) -join ''),
                   $_.Hash
Class Installer
                               Source = "https://www.github.com/mcc85s/FightingEntropy"

$Name = "[FightingEntropy($([Char]960))]"
iption = "Beginning the fight against ID theft and cybercrime"
Author = "Michael C. Cook Sr."
ompany = "Secure Digits Plus LLC"
yright = "(c) 2022 (mcc85s/mcc85sx/sdp). All rights reserved."
$Guid = "5e6c9634-1c88-49a2-8794-2970095d8793"
$Date = "12/14/2022 14:26:18"
ersion = "2022 12 A"
      [String]
      [String]
      [String]
      [String]
       [String]
      [String]
       [Guid]
       [DateTime]
       [Version]
```

```
[Object]
[Object]
[Object]
[Object]
Installer([UInt32]$Mode)
    If ($Mode -eq 0)
         $This.Write("Loading [~] $($This.Label())")
    $This.OS = $This.GetOS()
    If ($Mode -eq 0)
        Write-Host "[+] Operating System"
    $This.Root = $This.GetRoot()
If ($Mode -eq 0)
        Write-Host "[+] Module Root"
    $This.Manifest = $This.GetManifest($This.Source,$This.Root.Resource)
If ($Mode -eq 0)
        Write-Host "[+] Module Manifest"
    $This.Registry = $This.GetRegistry()
If ($Mode -eq 0)
        Write-Host "[+] Module Registry"
[Object] NewVersion([String]$Version)
    If (\vertVersion -notmatch "\d{4}\.\d{2}\.\d{+}")
        Throw "Invalid version entry"
    Return [FEVersion]::New($True, $Version)
[Object[]] Versions()
    $Markdown = Invoke-RestMethod "$($This.Source)/blob/main/README.md?raw=true"
Return $Markdown -Split "`n" | ? { $_ -match "^\|\s\*\a\{4}\.\d{2}\.\d+\*\*" } | % { [FEVersion]$_ }
[String] Label()
    Return "{0}[{1}]" -f $This.Name, $This.Version.ToString()
[Object] Template()
    Return [Template]::New($This)
[Object] GetOS()
    Return [OS]::New()
[Object] GetRoot()
                  $ETW.F.S.Company,
                        .Version.ToString() -join "\"
               = Switch -Regex ($This.OS.Type)
        ^Win32_ { $Env:PSModulePath -Split ";" -match [Regex]::Escape($Env:Windir) }
Default { $Env:PSModulePath -Split ":" -match "PowerShell" }
```

```
Return [Root]::New($This.Version, $Resource, $Path)
[Object] GetManifest([String]$Source,[String]$Resource)
    Return [Manifest]::New($Source,$Resource)
[Object] GetRegistry()
    Return [RegistryKey]::New($This)
[Object] GetFEVersion()
    Return [FEVersion]::New("| $($This.Version) | $($This.Date) | $($This.Guid) |")
[Void] Write([String]$Message)
    [ThemeStack]::New($Message)
[Void] Write([UInt32]$Slot,[String]$Message)
    [ThemeStack]::New($Slot,$Message)
[Object] File([String]$Type,[String]$Name)
    Return $This.Manifest.List() | ? Type -eq $Type | ? Name -eq $Name
[Object] _Control([String]$Name)
   Return $This.File("Control", $Name)
[Object] _Function([String]$Name)
    Return $This.File("Function", $Name)
[Object] _Graphic([String]$Name)
    Return $This.File("Graphic",$Name)
[Void] Refresh()
    $This.Manifest.Output | % { $_.TestPath(); $_.Item | % TestPath }
    $This.Registry.TestPath()
If ($This.Registry.Exists)
       $This.Root.Registry.Exists = 1
    }
$This.Root.Manifest.TestPath()
$This.Root.File.TestPath()
$This.Root.Module.TestPath()
[Void] Remove()
    $This.Write(1,"Removing [~] $($This.Label())")
    # // | Removing [Module]: (Manifest/File/Path) |
    "Shortcut", "Manifest", "File", "Module" | % {
        $Item = $This.Root.$_
$Item.Remove()
        Write-Host "Removed [+] $_ | $($Item.Fullname)"
    # // | Removing [Manifest/Registry]: (Content/Path) |
```

```
"Manifest", "Registry" | % {
          Write-Host "Removing [~] $_"
                <u>s.$_</u>.Remove()
          Write-Host "Removed [+] $_"
     $This.Write(1,"Removed [+] $($This.Label())")
[Void] Install()
     $This.Write(2,"Installing [~] $($This.Label())")
        [System.Net.ServicePointManager]::SecurityProtocol = 3072
     SThis.Manifest.Install()
SThis.Registry.Install()
SThis.Root.Module.Create()
     $This.Root.Module.Create()
$This.Root.File.Create()
     # // | Build the PSM/PSD |
     $This._Module()
     $Com = New-Object -ComObject WScript.Shell
$Item = $Com.CreateShortcut($This.Root.Shortcut.Path)
     # // | Assigns details to the shortcut |
     $Item.TargetPath = "PowerShell"
                           = 'Add-Type -AssemblyName PresentationFramework',
   'Import-Module FightingEntropy',
   '$Module = Get-FEModule',
   '$Module' -join ";"
= "-NoExit -ExecutionPolicy Bypass -Command $Command"
     $Item.Arguments
     $Item.Description = $This.Description
$Item.IconLocation = $This._Graphic("icon.ico").Fullname
$Item.Save()
     # // | Assigns administrative privileges to the shortcut |
                              = [System.IO.File]::ReadAllBytes($This.Root.Shortcut)
     SBytes[0x15]
     $Bytes[0x15] = $Bytes[0x15] -bor 0x20

# Set [byte] (21/0x15) bit 6 (0x20) ON... or else.

[System.IO.File]::WriteAllBytes($This.Root.Shortcut, $Bytes)
     $This.Root.Shortcut.TestPath()
     [System.Net.ServicePointManager]::SecurityProtocol = $Setting
     $This.Write(2,"Installed [+] $($This.Label())")
[Void] Update()
     $This.Root.File.Remove()
$This.Root.Manifest.Remove()
     ForEach ($File in $This.Manifest.Output | % Item)
```

```
$Hash = Get-FileHash $File.Fullname | % Hash
If ($Hash -ne $File.Hash)
           Switch ((Get-Host).UI.PromptForChoice($Message,"Replace...?",@("&Yes","&No"),1))
                0
                    $File.Hash = $Hash
Write-Host ("Updated [+] File: [{0}]" -f $File.Name)
                     $File.GetContent()
                }
                    Throw ("Exception [!] Hash mismatch, file: [{0}]" -f $File.Name)
   $This._Module()
[Void] _Module()
   # // | PowerShell Full |
    If ($This.Root.Resource.Exists)
        # // | Write the module file to disk using PSM() |
        [System.IO.File]::WriteAllLines($This.Root.File.Fullname,
                                              .PSM(),
                                         [System.Text.UTF8Encoding]$False)
       # // | Splat the Module Manifest params |
# // ------
        $Splat = $This.PSDParam()
        # // ______
# // | Write the PowerShell module manifest to disk |
        New-ModuleManifest @Splat
        $This.Root.Manifest.TestPath()
[String] PSM()
   $F = @( )
   # // | Header |
   $F += "# Downloaded from {0}" -f $This.Source
```

```
.Resource
      $F += "# {0}" -f $This.Resource
$F += "# {0}" -f $This.Version.ToString()
$F += "# <Types>"
$This.Binaries() | % { $F += "Add-Type -AssemblyName $_" }
      # // | Functions |
      $This.Manifest.Files(1) | % {
           $F += "# <{0}/{1}>" -f $_.Type, $_.Name
$F += "# {0}" -f $_.Fullname
If (!$_.Content)
                  $_.GetContent()
            $F += $_.Content
$F += "# </{0}/{1}>" -f $_.Type, $_.Name
          += "# </Functions>"
          += "Write-Theme -InputObject `"Module [+] [FightingEntropy(`$([char]960))][$($This.Version)]`" -Palette 2"
[String[]] Binaries()
     $Out = "PresentationFramework",
"System.Runtime.WindowsRuntime",
"System.IO.Compression",
"System.IO.Compression.Filesystem",
"System.Windows.Forms"
[Hashtable] PSDParam()
      Return @{
                                           = $This.GUID
= $This.Root.Manifest
= $This.Version
= $This.Copyright
= $This.Company
= $This.Author
= $This.Root.File
                                            = $This.Root.File
= $This.Binaries()
[Object] Validation()
      $This.Write(3,"Validation [~] Module manifest")
      $Validate = [Validate]::New($This)
$Ct = $Validate.Output | ? Match -eq 0
      Switch ($Ct.Count)
                  $This.Write(3,"Validation [+] All files passed validation")
                  $This.Write(1,"Validation [!] ($($Ct.Count)) files failed validation")
```

```
[String] ToString()
          Return "<FightingEntropy.Module.Installer>"
 [Installer]::New($Mode)
odule = FightingEntropy.Module -Mode 0
  PS Prompt:\> $Module
                  [FightingEntropy(π)]
  Company : Secure Digits Plus LLC
Copyright : (c) 2022 (mcc85s/mcc85sx/sdp). All rights reserved.
               : 5e6c9634-1c88-49a2-8794-2970095d8793
                : 2022.12.0
 2022.12.0 12/14/2022 14:26:18 5e6c9634-1c88-49a2-8794-2970095d8793
```