```
[FightingEntropy(π)][2023.4.0]: 2023-04-03 18:55:27
About
 https://github.com/mcc85s/FightingEntropy/blob/main/Version/2023.4.0/FightingEntropy.ps1
```

[FightingEntropy(π)] 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			
(,,,
\\I		П	
// Date	Name	ii	Url
		Ϊ	
		П	/
10/28/22	[FightingEntropy(π)][2022.10.1]	П	<pre>https://youtu.be/S7k4lZdPE-I /</pre>
// 04/03/23	Virtualization Lab - TCP Session	П	https://youtu.be/09c-fFbEQrU \
		ĪI	

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 [heightened security] and [protection] against:

- [+] [identity theft]
- [+] [cybercriminals]
- [+] [douchebags]
- [+] [malware]
 [+] [viruses]
- [+] [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 (still a work in progress).

[FightingEr	ntropy(π)][2023.4.0]	
Version	Date	Guid
2023.4.0	04/03/2023 18:53:49	75f64b43-3b02-46b1-b6a2-9e86cccf48113

Prerequisites

- A system running [Windows PowerShell] on:
 - [Windows 10/11]
 - [Windows Server 2016/2019/2021]

```
2) [Execution Policy] must be set to [bypass]
    3) Must be running a [PowerShell] session with [administrative privileges]
    1) [Load the module into memory], which can be done be using this command:
    | irm https://github.com/mcc85s/FightingEntropy/blob/main/FightingEntropy.ps1?raw=true | iex |
    ...or just (copying + pasting) the content of the file...
    https://github.com/mcc85s/FightingEntropy/blob/main/FightingEntropy.ps1
    ...into the [PowerShell] session, and pressing <enter>
    2) Once the [module is loaded into memory], enter the following:
     Operation
                   Instructions
     Install
                   $Module.Instatt(
$Module.Remove()
                         le.Install()
     Remove
    Todo
      PS Core
                         Filter out stuff for PS Core, by building a different manifest
                        Filter out stuff for PS Server, **
    PS Server
                                                                                                                       About
  Function /
Function FightingEntropy.Module
    [CmdLetBinding()]Param([Parameter()][UInt32]$Mode=0)
        | Used to track console logging, similar to Stopwatch |
    Class ConsoleTime
        [String]
        [DateTime] $Time
        [UInt32]
        ConsoleTime([String]$Name)
            $This.Name = $Name
$This.Time = [DateTime]::MinValue
$This.Set = 0
        Toggle()
            $This.Time = [DateTime]::Now
$This.Set = 1
        [String] ToString()
            Return $This.Time.ToString()
    # // | Single object that displays a status |
    Class ConsoleItem
         [UInt32]
         [String] $
         [Int32]
         [String]
         ConsoleItem([UInt32]$Index,[String]$Time,[Int32]$State,[String]$Status)
```

```
$This.Index = $Index
$This.Elapsed = $Time
$This.State = $State
$This.Status = $Status
     [String] ToString()
         Return "[{0}] (State: {1}/Status: {2})" -f $This.Elapsed, $This.State, $This.Status
Class ConsoleController
     [Object]
     [Object]
     [String]
     [Object]
     [Object]
     ConsoleController()
         $This.Reset()
     [String] Elapsed()
          $Item = Switch ($This.End.Set)
              0 { [Timespan]([DateTime]::Now-$This.Start.Time) }
1 { [Timespan]($This.End.Time-$This.Start.Time) }
     [Object] ConsoleItem([Int32]$State,[String]$Status)
         Return [ConsoleItem]::New($This.Output.Count,$This.Elapsed(),$State,$Status)
     [Object] ConsoleTime([String]$Type)
         Return [ConsoleTime]::New($Type)
     Initialize()
         Switch ($This.Start.Set)
                    $This.Start.Toggle()
$This.Update(0,"Running [~] ($($This.Start))")
                    $This.Update(-1,"Start [!] Error: Already initialized, try a different operation or reset.")
     Finalize()
          Switch ($This.Start.Set)
                   $This.End.Toggle()
$This.Span = $This.Elapsed()
$This.Update(100,"Complete [+] ($($This.End)), Total: ($($This.Span))")
```

```
$This.Update(-1,"End [!] Error: Already initialized, try a different operation or reset.")
     Reset()
          $This.Start = $This.ConsoleTime("Start")
$This.End = $This.ConsoleTime("End")
$This.Span = $Null
$This.Status = $Null
          $This.Output = [System.Collections.ObjectModel.ObservableCollection[Object]]::New()
     Write()
          $This.Output.Add($This.Status)
     [Void] SetStatus([Int32]$State,[String]$Status)
          $This.Status = $This.ConsoleItem($State,$Status)
     [Object] Update([Int32]$State,[String]$Status)
          $This.SetStatus($State,$Status)
$This.Write()
          Return $This.Last()
     [Object] Current()
          $This.Update($This.Status.State,$This.Status.Status)
          Return $This.Last()
     [Object] Last()
          Return $This.Output[$This.Output.Count-1]
     [Object] DumpConsole()
          Return $This.Output | % ToString
     [String] ToString()
          Return @($This.Elapsed(),$This.Span)[!!$This.Span]
Class ThemeBlock
     [UInt32] $Index
[Object] $String
[UInt32] $Fore
     [UInt32]
     [UInt32]
     ThemeBlock([Int32]$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] $Index
      [Object]
      ThemeTrack([UInt32]$Index,[Object]$Track)
            $This.Index = $Index
$This.Content = $Track
      [String] ToString()
            Return "<FightingEntropy.Module.ThemeTrack>"
Class ThemeStack
      Hidden [Object] $Face
Hidden [Object] $Track
      ThemeStack([UInt32]$Slot,[String]$Message)
            $This.Main($Message)
$Object = $This.Palette($Slot)
$This.Write($Object)
      ThemeStack([String]$Message)
            $This.Main($Message)
$0bject = $This.Palette(0)
$This.Write($0bject)
      Main([String]$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
                  03 {01,09,15,00} 04 {03,11,15,00} 05 {13,00,15,00} # B#/Into, Cartests
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()
    [String] Convert([String]$Line)
    Return [Char[]]@(0,2,4,6 | % { "0x$($Line.Substring($_,2))" | IEX }) -join ''
Add([String]$Mask,[String]$Fore)
    # // | Expands the mask strings |
                    = 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
         $Hash.Add($Hash.Count,$Item)
    $This.Track += [ThemeTrack]::New($This.Track.Count,$Hash[0..($Hash.Count-1)])
[Void] Reset()
    $This.Track = @( )
    $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
$Hash = Q{ }
```

```
ForEach ($X in 0..($Array.Count-1))
              If ($X % 4 -eq 0 -and $Block -ne "")
                   $Hash.Add($Hash.Count,$Block)
$Block = ""
         ForEach ($X in 0..($Hash.Count-1))
              $This.Track[2].Content[$X+3].String = $Hash[$X]
     [Void] Write([UInt32[]]$Palette)
         $0,$1,$2,$3 = $Palette
ForEach ($Track in $This.Track)
              ForEach ($Item in $Track.Content)
                  $Item.Write($0,$1,$2,$3)
     [String] ToString()
         Return "<FightingEntropy.Module.ThemeStack>"
Class OSProperty
     [String] $Sour
    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] $Source
[Object] $Property
    OSPropertySet([UInt32]$Index,[String]$Source)
         $This.Index = $Inde
$This.Source = $Sour
$This.Property = @( )
     Add([String]$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
    | Collects various details about the operating system
Class OS
   Hidden [String] $Name
   [Object]
   [Object]
   [Object]
   [Object]
   [Object]
   OS()
      $This.Name = "Operating System"
$This.Output = @( )
      # // | Environment |
      $This.AddPropertySet("Environment")
      $This.AddPropertySet("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)") }
          $This.Add(3,"Platform","Win32NT")
```

```
[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()
             $This.GetWinType()
        })
    [String] ToString()
        Return "<FightingEntropy.Module.OS>"
Class ManifestListItem
    [UInt32] $Index
    [String]
    [String]
    [String]
    ManifestListItem([UInt32]$Index,[String]$Source,[String]$Name,[String]$Hash)
        $This.Index = $Index
$This.Source = $Sourc
$This.Name = $Name
$This.Hash = $Hash
Class ManifestFile
    Hidden [UInt32]
    Hidden [UInt32]
    [String]
```

```
[String]
[String]
[UInt32]
Hidden [String] $F
Hidden [String]
Hidden [UInt32]
Hidden [Object] $Content
ManifestFile([Object]$Folder,[String]$Name,[String]$Hash,[String]$Source)
Hidden [Object]
     $This.Index = $Folder.Item.Count
$This.Mode = 0
$This.Type = $Folder.Type
$This.Name = $Name
$This.Fullname = "{0}\$Name" -f $Folder.Fullname
$This.Source = "{0}{{1}/{2}?raw=true" -f $Source, $Folder.Name, $Name
$This.Hash = $Hash
$This.TestPath()
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] Remove()
     $This.TestPath()
     If ($This.Exists)
          [System.IO.File]::Delete($This.Fullname)
          $This.Exists = 0
Download()
          $xContent = Invoke-WebRequest $This.Source -UseBasicParsing | % Content
          If ($This.Name -match "\.+(jpg|jpeg|png|bmp|ico)")
               $This.Content = $xContent
          ElseIf ($This.Name -match "\.+(txt|xml|cs)")
               $Array = $xContent -Split "`n"
$Ct = $Array.Count
                    If ($Array[$Ct] -notmatch "\w")
               $This.Content = $Array[0..($Ct)] -join "`n"
                $This.Content = $xContent
          Throw "Exception [!] An unspecified error occurred"
```

```
Write()
        If (!$This.Content)
            Throw "Exception [!] Content not assigned, cannot (write/set) content."
        If (!$This.Exists)
            If ($This.Name -match "\.+(jpg|jpeg|png|bmp|ico)")
                [System.IO.File]::WriteAllBytes($This.Fullname,[Byte[]]$This.Content)
            ElseIf ($This.Name -match "\.+(txt|xml|cs)")
                [System.IO.File]::WriteAllText($This.Fullname,$This.Content)
                [System.IO.File]::WriteAllText($This.Fullname, $This.Content,
                                                [System.Text.UTF8Encoding]$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)")
                $This.Content = [System.IO.File]::ReadAllBytes($This.Fullname)
            ElseIf ($This.Name -match "\.+(xml|txt|cs)")
                $This.Content = [System.IO.File]::ReadAllText($This.Fullname;
                                                               [System.Text.UTF8Encoding]$False)
                $This.Content = [System.IO.File]::ReadAllLines($This.Fullname,
                                                                [System.Text.UTF8Encoding]$False)
    [String] ToString()
        Return "<FightingEntropy.Module.ManifestFile>"
Class ManifestFolder
    Hidden [UInt32]
    Hidden [UInt32]
```

```
[String]
    [String]
    [String]
    [UInt32]
   Hidden [Object]
   Hidden [String]
   ManifestFolder([UInt32]$Index,[String]$Type,[String]$Parent,[String]$Name)
        $This.Index
$This.Mode
$This.Type
         This.Name
        $This.Fullname = "$Pai
                        = @( )
          nis.Item
        $This.TestPath()
   Add([Object]$File)
        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 += $File
    [Object] Get([String]$Name)
        Return $This.Output | ? Name -eq $Name
    TestPath()
        If (!$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] Remove()
        $This.TestPath()
        If ($This.Exists)
            [System.IO.Directory]::Delete($This.Fullname)
            $This.Exists = 0
    [String] ToString()
        Return "({0}) <FightingEntropy.Module.ManifestFolder[{1}]>" -f $This.Item.Count, $This.Name
Class ManifestController
```

```
Hidden [String]
     [String]
     [String]
    Hidden [UInt32]
Hidden [UInt32]
     [Object]
     ManifestController([String]$Source,[String]$Resource)
         $This.Name = "Module M
$This.Source = $Source
$This.Resource = $Resource
$This.Output = @( )
     [Object] Get([String]$Name)
         Return $This.Output | ? Name -eq $Name | % Output
     [Object[]] Refresh()
         $0ut = @( )
ForEach ($List in $This.Output)
              $List.TestPath()
              $0ut += $List
If ($List.Exists)
                   ForEach ($Item in $List.Item)
                        $Item.TestPath()
$Out += $Item
     [Object] Files([UInt32]$Index)
         Return $This.Output[$Index] | % Item
     [Object] Full()
         $D = "Index Type Name Hash Exists Fullname Source Match" -Split " "
Return $This.Output | % Item | Select-Object $D
     [String] ToString()
         Return "<FightingEntropy.Module.ManifestController>"
      | Template for registry injection |
Class RegistryTemplate
     [String]
     [String]
     [String]
     [String]
     [String]
     [String]
     [Guid]
     [DateTime]
     [String]
     [String]
     [String]
     [String]
     [String]
     [String]
     [String]
     [String]
     [String]
    RegistryTemplate([Object]$Module)
```

```
= $Module.Source

= $Module.Name

= $Module.Description

= $Module.Author

= $Module.Company

= $Module.Guid

= $Module.Date

= $Module.Os.Contion
            This.Source = This.Name = This.Description =
                 s.Author
               is.Company
                 <u>s</u>.Copyright
               is.Guid
               nis.Date
              his.Version
                                        Module.Version
SModule.OS.Caption
SModule.OS.Platform
SModule.OS.Type
SModule.Root.Registry
               nis.Caption
               is.Platform
                 .s . Type
               nis.Registry
                                         Module.Root.Resource
                 s.Resource
                                        $Module.Root.Resourd
$Module.Root.Module
$Module.Root.File
               nis.Module
             This.File
             This.Manifest
                                         Module.Root.Manifest
Class RootProperty
     Hidden [UInt32] $Inde
[String] $Typ
     [String]
     [String]
      [String]
     [UInt32]
     Hidden [String] $Path
     RootProperty([UInt32]$Index,[String]$Name,[UInt32]$Type,[String]$Fullname)
           $This.Index = $Index
$This.Type = Switch ($
$This.Name = $Name
$This.Fullname = $Fullname
$This.Path = $Fullname
$This.TestPath()
                                = Switch ($Type) { 0 { "Directory" } 1 { "File" } }
     TestPath()
           $This.Exists = Test-Path $This.Path
     }
     Create()
           $This.TestPath()
           If (!$This.Exists)
                 Switch ($This.Name)
                       {$_ -in "Resource","Module"}
                            [System.IO.Directory]::CreateDirectory($This.Fullname)
                       {$_ -in "File","Manifest"}
                            [System.IO.File]::Create($This.Fullname).Dispose()
                 $This.TestPath()
     Remove()
           $This.TestPath()
           If ($This.Exists)
                 Switch ($This.Name)
                           -in "Resource","Module"}
                            [System.IO.Directory]::Delete($This.Fullname)
```

```
{$_ -in "File","Manifest","Shortcut"}
                             [System.IO.File]::Delete($This.Fullname)
                 $This.Exists = 0
      [String] ToString()
           Return $This.Path
Class Root
     Hidden [String] $Name
[Object] $Registry
      [Object]
      [Object]
      [Object]
      [Object]
      [Object]
      Root([String]$Version,[String]$Resource,[String]$Path)
           $This.Name = "Module Root"
$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]$Path)
           Return [RootProperty]::New($Index,$This.Slot($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]
      Hidden [String] $Fullname
      RegistryKeyTemp([String]$Path)
```

```
$This.Fullname = $Path
$Split = $Path -Split "\\"
$This.Hive = $Split[0]
$This.Name = $Split[-1]
$This.Enum = Switch -Regex ($This.Hive)
              HKLM: {"LocalMachine"} HKCU: {"CurrentUser"} HKCR: {"ClassesRoot"}
                           = $Path -Replace "$($This.Hive)\\", "" | Split-Path -Parent
          $This.Path
    Open()
                           = $This.Enum
          $This.Key
                          = [Microsoft.Win32.Registry]::$X.CreateSubKey($This.Path)
    Create()
         If (!$This.Key)
         $This.Subkey = $This.Key.CreateSubKey($This.Name)
    Add([String]$Name,[Object]$Value)
         If (!$This.Subkey)
              Throw "Must create the subkey first."
         $This.Subkey.SetValue($Name,$Value)
     [Void] Remove()
         If ($This.Key)
              $This.Key.DeleteSubKeyTree($This.Name)
     [Void] Dispose()
          If ($This.Subkey)
              $This.Subkey.Flush()
$This.Subkey.Dispose()
         If ($This.Key)
              $This.Key.Flush()
$This.Key.Dispose()
Class RegistryKeyProperty
    Hidden [UInt32] $Index
     [String]
     [Object]
     [UInt32]
     RegistryKeyProperty([UInt32]$Index,[Object]$Property)
         $This.Index = $Index
$This.Name = $Property.Name
$This.Value = $Property.Value
     [String] ToString()
         Return "<FightingEntropy.Module.RegistryKeyProperty>"
```

```
Class RegistryKey
    Hidden [String] $Name [String] $Path [UInt32] $Exists
    [Object]
    RegistryKey([Object]$Module)
         $This.Name
$This.Path
$This.TestPath()
If ($This.Exists)
                              = "Module Registry"
= $Module.Root.Registry.Path
              $0bject = Get-ItemProperty $This.Path
$This.Property = $This.Inject($0bject)
              $0bject = $Module.Template()
$This.Property = $This.Inject($0bject)
     [Object] Inject([Object]$0bject)
         $Item = $This.Key($Hash.Count,$Property)
$Item.Exists = $This.Exists
$Hash.Add($Hash.Count,$Item)
         Return $Hash[0..($Hash.Count-1)]
     TestPath()
          $This.Exists = Test-Path $This.Path
    Create()
         $This.TestPath()
         If ($This.Exists)
              Throw "Exception [!] Path already exists"
                             = $This.RegistryKeyTemp($This.Path)
         $Key
$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
         }

$Key.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
$Key.Dispose()
     [Object[]] List()
           Return $This.Output
     [Object] Key([UInt32]$Index,[Object]$Property)
           Return [RegistryKeyProperty]::New($Index,$Property)
     [Object] KeyTemp([String]$Path)
           Return [RegistryKeyTemp]::New($Path)
     [String] ToString()
           Return "<FightingEntropy.Module.RegistryKey>"
Class FEVersion
    [Version] $Version
Hidden [DateTime] $Time
[String] $Date
$Guid
     FEVersion([String]$Line)
           $This.Version = $This.Tx(0,$Line)
$This.Time = $This.Tx(1,$Line)
$This.Date = $This.MilitaryTime()
$This.Guid = $This.Tx(2,$Line)
          $This.Time
$This.Date
$This.Guid
     FEVersion([Switch]$New,[String]$Version)
          $This.Version = $V
$This.Time = [C
$This.Date = $T
$This.Guid = [C
                            = [DateTime]::Now
                             = $This.MilitaryTime()
                            = [Guid]::NewGuid()
     [String] MilitaryTime()
           Return $This.Time.ToString("MM/dd/yyyy HH:mm:ss")
     [String] Tx([UInt32]$Type,[String]$Line)
                0 { "\d{4}\.\d{2}\.\d+" }
1 { "\d{2}\/\d{2}\/\d{4} \d{2}:\d{2}:\d{2}" }
2 { @(8,4,4,4,12 | % { "[a-f0-9]{$_}" }) -join '-' }
          Return [Regex]::Matches($Line,$Pattern).Value
     [String] ToString()
          Return "| {0} | {1} | {2} |" -f $This.Version,
$This.Date.ToString("MM/dd/yyyy HH:mm:ss"),
$This.Guid
```

```
Class ValidateFile
      [UInt32]
      [String]
      [String]
      [String]
      [String]
     Hidden [String] $
     Hidden [String]
      [UInt32]
      [UInt32]
      ValidateFile([Object]$File)
            $File.Match
                                 = $This.Match
      [String] GetFileHash([String]$Path)
            If (![System.IO.File]::Exists($Path))
                  Throw "Invalid path"
           Return Get-FileHash $Path | % Hash
Class InstallController
                              $Mode
$Console
$Source = "https://www.github.com/mcc85s/FightingEntropy"
    $Name = "[FightingEntropy($([Char]960))]"
cription = "Beginning the fight against ID theft and cybercrime"
$Author = "Michael C. Cook Sr."
$Company = "Secure Digits Plus LLC"
pyright = "(c) 2023 (mcc85s/mcc85sx/sdp). All rights reserved."
$Guid = "75f64b43-3b02-46b1-b6a2-9e86cccf4811"
$Date = "04/03/2023 18:53:49"
$Version = "2023.4.0"
$0S
      Hidden [UInt32]
     Hidden [Object] $
      [String]
      [String]
      [String]
      [String]
      [String]
      [String]
      [Guid]
      [DateTime]
      [Version]
      [Object]
      [Object]
      [Object]
      [Object]
      InstallController([Switch]$Flags)
            $This.Mode = 0
$This.Main()
      InstallController()
            $This.Mode = 0
$This.Main()
     InstallController([UInt32]$Mode)
            $This.Mode = $Mode
$This.Main()
     Main()
```

```
$This.StartConsole()
     # Display module
     $This.Display()
                     = $This.New("OS")
                   = $This.New("Root")
     $This.Root
     $This.Manifest = $This.New("Manifest")
     $This.Registry = $This.New("Registry")
    $This.Update(0,"
     $This.LoadManifest()
StartConsole()
    # Instantiates and initializes the console
$This.Console = [ConsoleController]::New()
$This.Console.Initialize()
$This.Status()
[Void] Status()
     If ($This.Mode -eq 0)
          [Console]::WriteLine($This.Console.Last().Status)
[Void] Update([Int32]$State,[String]$Status)
     # Updates the console
     $This.Console.Update($State,$Status)
$This.Status()
[Void] Write([String]$Message)
     # Writes a standard stylized message to the console
[ThemeStack]::New($Message)
[Void] Write([UInt32]$Slot,[String]$Message)
    # Writes a selected stylized message to the console
[ThemeStack]::New($Slot,$Message)
Display()
     If ($This.Mode -eq 0)
          $This.Update(0,"Loading [~] $($This.Label())")
$This.Write($This.Console.Last().Status)
[String] Label()
     Return "{0}[{1}]" -f $This.Name, $This.Version.ToString()
[String] SourceUrl()
    # Returns the (base url + version) as a string
Return "{0}/blob/main/Version/{1}" -f $This.Source, $This.Version
[String] Env([String]$Name)
     Return [Environment]::GetEnvironmentVariable($N
```

```
[String] GetResource()
     Return $This.Env("ProgramData"), $This.Company, "FightingEntropy", $This.Version.ToString() -join "\"
[String] GetRootPath()
                = Switch -Regex ($This.OS.Type)
         "Win32_ { $This.Env("PSModulePath") -Split ";" -match [Regex]::Escape($This.Env("Windir")) }
Default { $This.Env("PSModulePath") -Split ":" -match "PowerShell" }
[Object] GetFEVersion()
     # Returns parsed FEModule version object
     Return [FEVersion]::New("| $($This.Version) | $($This.Date) | $($This.Guid) |")
[Object] ManifestFolder([UInt32]$Index,[String]$Type,[String]$Resource,[String]$Name)
    # Instantiates a new manifest folder, and can be used externally
Return [ManifestFolder]::New($Index,$Type,$Resource,$Name)
[Object] ManifestFile([Object]$Folder,[String]$Name,[String]$Hash)
     # Instantiates a new manifest file, and can be used externally
Return [ManifestFile]::New($Folder,$Name,$Hash,$This.SourceUrl())
[Object] NewVersion([String]$Version)
     # Tests a version input string, and if it passes, returns a version object If ($Version -notmatch "\d{4}\.\d{1,}\.\d{1,}")
     Return [FEVersion]::New($True,$Version)
[Object[]] Versions()
    # Obtains the available versions from the project site
$Markdown = Invoke-RestMethod "$($This.Source)/blob/main/README.md?raw=true"
Return $Markdown -Split "`n" | ? { $_ -match "^\|\s\*\d{4}\.\d{2}\.\d+\*\*" } | % { [FEVersion]$_ }
[Object] Template()
    # Instantiates a new registry template to generate a registry key set
Return [RegistryTemplate]::New($This)
[Object] New([String]$Name)
    # (Selects/instantiates) selected object
$Item = Switch ($Name)
          os
               [OS]::New()
          Root
                [Root]::New($This.Version,$This.GetResource(),$This.GetRootPath())
          Manifest
               [ManifestController]::New($This.Source,$This.Root.Resource)
          Registry
               [RegistryKey]::New($This)
```

```
Switch ([UInt32]!!$Item)
                         0 { $This.Update(-1,"[!] <$($Item.Name)> ") }
1 { $This.Update( 1,"[+] <$($Item.Name)> ") }
            [Object] GetFolder([String]$Type)
                   Return $This.Manifest.Output | ? Type -eq $7
            [Object] GetFolder([UInt32]$Index)
                  # Returns the indexed folder from the manifest controller
Return $This.Manifest.Output | ? Index -eq $Index
            [String] GetFolderName([String]$Type)
                   # Returns the formal name of a given (type/folder) as a string
$xName = Switch ($Type)
                         Control { "Control" }
Function { "Functions" }
Graphic { "Graphics" }
            [Object] ManifestListItem([UInt32]$Index,[String]$Source,[String]$Name,[String]$Hash)
                   Return [ManifestListItem]::New($Index, $Source, $Name, $Hash)
            [Object[]] GetManifestList([String]$Name)
                   $List = Switch ($Name)
                         Control
                               ("Computer.png"
0BEBF69E472AB0764C3C7E782A3F74111F993EA31D1075"),
("DefaultApps.xml"
80C9094E997C8A5C5507237EB70A241195D7F16B06B035"),
"87EAB4F74B38494A96
"EEC0F0DFEAC1B41728
                                0C9094E997C6A3C63
("failure.png"
\n889733912EE1F3095404D65AB630F4638FA1F40D4E99") ,
"59D479A0277CFFDD5"
                              %144ACCBB4715D2AE49101DCE9E64CA6C44D62BD4F33D02"),

("FEServerMod.xml"

)3D42E5164A58EF2FC744509F2C799CE7ED6D0B0FF9016D"),

("header-image.png"

)55F35C729197A32C9190999EF548BF98A2E2C2217BBCB88"),
"3EA9AF3FFFB5812A3D
"38F1E2D061218D3155
                               ("MDTClientMod.xml"
                               8B22BFD31281AFFF0FFE1A7FE921A97C51E83BF46F8603"),
("MDTServerMod.xml"
B042617CEC2B56128FD03A9C029D913BB2B6CC65802189"),
("MDT_LanguageU1.xml"
15C07FC556U32U3CS1400PSPCPDP13C33300PSPCPD
                               ("PSDClientMod.xml"
"C90146EECF2696539
                                CFDE5C2E08CFD97548E63
("PSDServerMod.xml"
                               ("success.png"
A93558A34AC8E36F972B6F33D00C4ADFB912AE1F6D6CE2"),
("vendorlist.txt"
AC6277D086B4EEE7580DDB548F81B0B2AA7AC78C240874"),
                               ("Wifi.cs"
                               0F9C97DF3C663CA0028A36CBCD00806D6517575A6F549F"),
("zipcode.txt",
"405226234D7726180C
                                070AB41E21DEE978181A92CB204CA1080C6DC32CBBE0D8")
                         Function
                               ("Copy-FileStream.ps1"
F85F87078D8E42179B19195E546371FC439E4B6171A0B9"),
("Get-AssemblyList.ps1"
2A2AC793C8CD1313EB6F1A61C50D681130322C358CDAE7"),
"51D78BCE84D5EC2FAE
```

```
("Get-ControlExtension.ps1"
GC5402A6BA9DEEA3DF32D37F3821
                                                     C-Get-Controtextension.ps1

C5C5402A6BA9DEEA3DF32D37F38214DD93D1EBBE314942D"),

("Get-DCOMSecurity.ps1"

E513C13A6C48F8B593D27189AB44B70FD53D6A9C3F965C"),
"BF83DAAF1D8D53A39A
                                                     ("Get–EnvironmentKey.ps1"
862C70826DB9B1608C84448C68E9
("Get–EventLogArchive.ps1"
ABB1577A7C27A6684373C2FCC1F4
                                                                                                                     C68E9C52857A224CA0054F6")
"96F00FD11983FF80B
"D0FB5197A191B28BA
                                                      #BB1577A7C27A6684373C2FCC1F4E88628E2E4FD872925")
("Get-EventLogConfigExtension.ps1",
9E40DD7F77F2D99813B60898B4D45E6F0DE5AA28FA01099")
("Get-EventLogController.ps1",
10043858F56256059D070CC2E0D37A4352D379A36ACAF5")
                                                                                                                              D37A4352D379A36ACAF5")
"B270065C25EAB6183A1
                                                     ("Get-EventLogProject.ps1",

90D738E1EA89E685B70270B6B856E16F16A40E8748CDE6"),

("Get-EventLogRecordExtension.ps1",

D8D003A82E420CDA17ED865FFD83D6E3A392F40CF20145"),
"113E9EB104D983F1F9
"8B738D1B551BC14C6F
                                                    CBBD003A82E420CDA17ED865FFD83D6E3A392F40CF20145"),

("Get-EventLogXaml.ps1"

S5AAA643CF88DC43F3A7C2D97281EEBD47A03BEE6018DB4"),

("Get-FEADLogin.ps1"

S5FC012E7EABB1884B3989D33D2E2E8AB6A8C21C3770B56"),

("Get-FEDCPromo.ps1"

S9135A664DADD254E45CDDAF36D863EB2E6760CB1379323"),

("Get-FEImageManifest.ps1"

ISD8911F8B4BD7AABE5C6971363AF2FFADE6FF83918D57F"),
"18554029561A277AEB
"1EEA605D7181E9F198
"0B682031192C18EC2
"03AD403FA17EE0702
"05AD403FA17EE0702A8D8911F884BD7AABE5CB971363AF2FFADE6FF83918D57F"),

("Get-FEModule.ps1"

"9E2CCD51F1082FC197ABCF68B8429FC62572DF3DA8AF5CAD29580F37C33C81DF"),

("Get-FENetwork.ps1"

"0048A6208F9DDF0CCCFBCEE0621426DE2B49ACCBDBED71FB1E5D8B027330CEFC"),
                                                      ("Get-FERole.ps1"
552440FE08758D88BF42/
("Get-FESystem.ps1"
                                                     C Get-Fesystem.ps1",

387CAEF927F26009F20BC28C689417E6D840A062F166B0"),

("Get-MDTModule.ps1"

E343A3EA7A07DBF868D918C85D302DF771862306CB824A"),

("Get-PowerShell.ps1",

92D8A87266F136EEBD979F9505D8D481A4F5E38E74BF02"),
"A8A54664FCAEA3F59E
"7F5E35535A4A50D02
                                                      ("Get-PropertyObject.ps1"

("Get-PropertyObject.ps1"

("Get-PropertyObject.ps1"

)C3848CAD83B52D6F22D8D4F12EBF4BE223DF315F5DAD2"),
                                                    G9C3B48CAD83B5206F22D8D4F12EBF4BE223DF315F5DAD2")

("Get-PSDLog.ps1"

G9C41567E4944C836FC7D6592C3451DAA798010DC50CACB")

("Get-PSDLogGUI.ps1"

G9DD515DE7184D4E71AA8EC61737A53EC39F5BDB11588FF")

("Get-PSDModule.ps1"

G9D45BFC1D64227F68CC4E555C877B9AFDD54CB5EBD")

("Get-ThreadController.ps1"

G1CCE301490BA36214CECC9415F982CC819651FD1E9E66")

("Get-UserProfile.ps1"

F62F1C7A53A1D7A73BB417AA8927E6A95CEE25142A648F")

("Get-ViperBomb.ps1"

("G0t-ViperBomb.ps1"

("G0t-ViperBomb.ps1"

("G0t-ViperBomb.ps1"

("G0t-ViperBomb.ps1"
"2C7DC771C2BECE4DF2
"FEBF687E9A97A41357
"66C2078C9CC0621CE91
"F9A6B23DCE348E5627
                                                     7D048613D65907BF7F416CF69797A1EAF9FAC8B28D797F"),
("Get-WhoisUtility.ps1"
C614CD3FC71BD6BE46EDC142D66CF9402EABAR9D089D6F")
 "A677D8026F18FBFF7
                                                     ("Initialize-FeAdInstance.ps1"
905C3C710D1CD16F1A1ADBCF5952EF12CE71F54EEBEA79")
("Install-BossMode.ps1"
"D9D923D6919920866
                                                     584D4A863DE607B417CD4F3F57666627ECD9CB295AA07A"),
("Install-IISServer.ps1"

F395AA19F86D32849CD4F14B599F2AC6F7330F083E0D6C"),
("Install-PSD.ps1"

5E8606ABD5F61392451
"25524DA6A44325
 "48F53BF8A3ECD087E
                                                      ("Invoke-cimdb.ps1"
                                                              LNVOKE-CIMOU. DSI
SGAAET58E304B384592F55DF0D0A1176A8906885B56")
Wew-Document.psI"
SA24B6B4BA8CC180BBD5E7E4C2424F2489A9E684C72")
"567E8955B7D0A5156
"074638E4D16636BE31
                                                     ("New-EnvironmentKey.ps1"
96CFD7458E216832B36204BB542FDB416471058603D04C")
"B2F51FA6AFCFD499DI
                                                      ("New-FEConsole.ps1"
                                                    ("New-FECOnsole.ps1"
B52FC2FAFA7A691AB75649F98C58036E1DCBF3BD7892A2"),
("New-FEFormat.ps1"
9FEF848CE64A3C333C351EC1F50AC02468FCC0341AAAF4"),
("New-FEInfrastructure.ps1",
B07D914D088AB471B6C768C10F2DD38FD230A5B0566F67"),
("New-MarkdownFile.ps1",
13704881E6911201C445E75044FE93228A6F4C41E8A497"),
("New-TranscriptionCollection.ps1",
"C4BFF5D8FBAC5ADBB7
"04C48E828FEF3DDCC
"425D7B38B3E5EDB06A13
```

```
("Write-Element.ps1"
5ACAA1605C385FE479CC34
                                          CC344514C2D5A532AB5DF81FC2D2")
"1AF8C0392304F9FC9
                     ("Write-Theme.ps1"
C7A8410681DFB90B9555C08915D367F210739321250330")
                 Graphic
                      ("background.jpg"

)B4F98CEAA046B9AFCD717DA532AFEF2E230C981DAFEB5"),

("banner.png"

)3475AE42505CDBCE314B9945EF7C7BCB91374A8116F37"),
"94FD6CB32F8FF9DD3
"057AF2EC2B9EC3539
                      ("icon.ico"
846B8DB1B420C1EE53FFD55EC65D17E2D361830659E58E")
"594DAAFF448F5306B
                     ("OEMbg.jpg"
20D5C7697E84421B0FA0F9B574737EF06FC95C92786A32")
"D4331207D471F799A5
                     "98BF79CAE27E85C772
"05ABBABDC9F67A95D
                      ("sdplogo.png"
FAD5F629AFB3553C4762E14CD60792823D388F87E2B16C")
"87C2B016401CA3F8F8
        LoadManifest()
             $Out = @( )
             ForEach ($Type in "Control","Function","Graphic")
                 ForEach ($Item in $This.GetManifestList($Type))
                      $Out += $This.ManifestListItem($Out.Count,$Type,$Item[0],$Item[1])
             $Max = ($Out.Name | Sort-Object Length)[-1]
             ForEach ($Type in "Control", "Function", "Graphic")
                 $This.LoadFolder($Type)
$Folder = $This.GetFolder($Type)
                 # Loads each file + hash
ForEach ($File in $Out | ? Source -eq $Type)
                      $This.LoadFile($Folder,$Max.Length,$File)
                 $This.Update(0,"
        LoadFolder([String]$Type)
             $ID = $This.GetFolderName($Type)
```

```
$Item = $This.ManifestFolder($This.Manifest.Output.Count,$Type,$This.Root.Resource,$ID)
    # Logs validation of its existence, and adds if it does not
Switch ([UInt32]!!$Item)
         <u>0</u>
{
              $This.Update(
              $This.Update( 0,("[!] {0} : {1}" -f $Item.Type.PadLeft(8," "), $Item.Fullname))
$This.Update(
              $This.Update( 0,"
              $This.Manifest.Output += $Item
$This.Update(
              \pi.Update(0,("[+] \{0\} : \{1\}" -f \{1\}m.Type.PadLeft(8," "), \{1\}m.Fullname)) $$
              $This.Update( 0,"
LoadFile([Object]$Folder,[UInt32]$Max,[Object]$File)
    $ID = $File.Name
$Hash = $File.Hash
     If ($ID -in $Folder.Item.Name)
         Throw "Item already added"
    # Instantiates the specified file
$Item = $This.ManifestFile($Folder,$ID,$Hash)
$Label = $ID.PadRight($Max," ")
    Switch ([UInt32]($ID -notin $Folder.Item.Name))
              $This.Update(-1,"[!] $Label")
              $Folder.Add($Item)
$This.Update( 1,"[o] $Label | $Hash ")
[Object] File([String]$Type,[String]$Name)
    Return $This.GetFolder($Type).Item | ? Name -eq $Name
[Object] File([UInt32]$Index,[String]$Name)
    Return $This.GetFolder($Index).Item | ? 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] WriteAllLines([String]$Path,[Object]$Object)
    [System.IO.File]::WriteAllLines($Path,$Object,[System.Text.UTF8Encoding]$False)
[Void] Refresh()
    ForEach ($Item in $This.Module.Root.List() | Sort-Object Index -Descending)
        Switch ($Item.Name)
             Registry
                 $This.Registry.TestPath()
$This.Root.Registry.Exists = $This.Registry.Exists
             Resource
                 $This.Root.Resource.TestPath()
$This.Manifest.Refresh() | Out-Null
             Module
                 $This.Root.Module.TestPath()
                 $This.Root.File.TestPath()
             }
             Manifest
                 $This.Root.Manifest.TestPath()
             Shortcut
                 $This.Root.Shortcut.TestPath()
InstallItem([Object]$Item)
    $Item.TestPath()
    Switch ($Item.Exists)
             Switch ($Item.Name)
                 Resource
                     $Item.Create()
                                 = $This.Manifest.Output | % Item
                                  = ($List.Name | Sort-Object Length)[-1]
= $List.Count + $This.Manifest.Output.Count
= -1
                     ForEach ($Section in $This.Manifest.Output)
                          $Section.TestPath()
If (!$Section.Exists)
                              $Section.Create()
                              $This.Update(
```

```
$This.Update( 1,("[~] {0} : {1} [$Status] " -f $Section.Type.PadRight(9," "),
$Section.FullName))
                                              $This.Update(
                                               $This.Update( 0,"
                                         ")
                                         ForEach ($File in $Section.Item)
                                              Switch ($File.Exists)
                                                    0
                                                         $File.Create()
$File.Download()
$File.Write()
$This.Update(1,("[+] {0} [$Status] " -f $File.Name.PadRight($Max.Length," ")))
                                                         $This.Update(0,("[!] {0} [$Status] " -f $File.Name.PadRight($Max.Length," ")))
                                         $This.Update(0,"
                               Registry
                                    $This.Update(1,"[@] Registry : $($Item.Fullname) ")
$This.Update(0,"
                            ")
                                    $Key = $This.Registry.KeyTemp($Item.Fullname)
$Key.Open()
$Key.Create()
                                    ForEach ($X in 0..($This.Registry.Property.Count-1))
                                         $Prop = $This.Registry.Property[$X]
$Key.Add($Prop.Name, $Prop.Value)
                                         $This.Update(1,"[~] Property : [$($Prop.Name)], Value : [$($Prop.Value)]")
$Item.Exists = 1
                                   $Key.Dispose()
$Item.TestPath()
$This.Update(0,"
                               Module
                                    $Item.Create()
$Item.TestPath()
                                    $This.Update(1,"[+] PSModule : $($Item.Fullname) ")
                               File
                                   $Item.Create()
$This.WriteAllLines($Item.Fullname,$This.Psm())
$Item.TestPath()
$This.Update(1,"[+] *.psm1 : $($Item.Fullname) ")
                               Manifest
                                      Splat = $This.PSDParam()
                                    New-ModuleManifest
```

```
$Item.TestPath()
$This.Update(1,"[+] *.psd1 : $($Item.Fullname) ")
                              Shortcut
                                                              = New-Object -ComObject WScript.Shell
                                    Com
Mobject
Mobject.TargetPath
Mobject.Arguments
Moscription
                                        ject = $Com.CreateShortcut($Item.Fullname)
ject.TargetPath = "PowerShell"
ject.Arguments = "-NoExit -ExecutionPolicy Bypass -Command `"Get-FEModule -Mode 1`""
ject.Description = $This.Description
ject.IconLocation = $This._Graphic("icon.ico").Fullname
                                           t.Save()
                                                              = [System.IO.File]::ReadAllBytes($Item.Fullname)
                                       ytes[0x15]
                                                              = $Bytes[0x15] -bor 0x20
                                    [System.IO.File]::WriteAllBytes($Item.Fullname,$Bytes)
                                    $Item.TestPath()
$This.Update(1,"[+] *.lnk : $($Item.Fullname) ")
                              }
                         Switch ($Item.Name)
                              Resource
                                    $This.Update(-1,"[!] Resource : $($Item.Fullname) [exists]")
                              Registry
                                   $This.Update(-1,"[!] Registry : $($Item.Fullname) [exists]")
                              }
                              Module
                                    $This.Update(-1,"[!] PSModule : $($Item.Fullname) [exists]")
                              File
                                    $This.Update(-1,"[!] *.psm1 : $($Item.Fullname) [exists]")
                              Manifest
                                    $This.Update(-1,"[!] *.psd1 : $($Item.Fullname) [exists]")
                              Shortcut
                                    $This.Update(-1,"[!] *.lnk : $($Item.Fullname) exists")
          [Void] Install()
               $This.Write(2,"Installing [~] $($This.Label())")
                $Setting = [System.Net.ServicePointManager]::SecurityProtocol
                             [System.Net.ServicePointManager]::SecurityProtocol = 3072
$This.Update(0,"==
                $This.InstallItem($This.Root.Resource)
$This.Update(0,"--
               $This.InstallItem($This.Root.Registry)
$This.Update(0,"-
               $This.InstallItem($This.Root.Module)
$This.InstallItem($This.Root.File)
$This.InstallItem($This.Root.Manifest)
$This.InstallItem($This.Root.Shortcut)
$This.Update(0,"===
```

```
$This.Write(2,"Installed [+] $($This.Label())")
       RemoveItem([Object]$Item)
           $Item.TestPath()
           Switch ($Item.Exists)
                  Switch ($Item.Name)
                      Resource
                          $This.Update(1,"[_] Resource : $($Item.Fullname) ")
                      Registry
                          $This.Update(0,"[_] Registry : $($Item.Fullname) ")
                      Module
                          $This.Update(0,"[_] PSModule : $($Item.Fullname) ")
                      File
                          $This.Update(0,"[_] *.psm1 : $($Item.Fullname) ")
                      Manifest
                          $This.Update(0,"[_] *.psd1 : $($Item.Fullname) ")
                      Shortcut
                          $This.Update(0,"[_] *.lnk : $($Item.Fullname)")
                  Switch ($Item.Name)
                      Resource
                                     = $This.Manifest.Refresh()
                                     = ($List.Name | Sort-Object Length)[-1]
= $List.Count
= -1
                          ForEach ($Section in $This.Manifest.Output)
$This.Update(1,"-
                              $This.Update(1,("[_] {0} : {1} [$Status] " -f $Section.Type.PadRight(9," "),
$Section.FullName))
$This.Update(1,"--
                              $This.Update(0,"
                              ForEach ($File in $Section.Item)
                                  $File.Remove()
```

[System.Net.ServicePointManager]::SecurityProtocol = \$Setting

```
")))
                                              $This.Update(0,"
                                             $Section.Remove()
                                        $Item.Remove()
                                  Registry
                                                            = $This.Registry
                                        $This.Update(1,"[ ] Registry : $($Item.Fullname) ")
$This.Update(0,"
                                        $Key
$Key.Open()
$Key.Create()
$Key.Remove()
                                                              = $This.Registry.KeyTemp($0bject.Path)
                                        ForEach ($Property in $Object.Property)
                                             $This.Update(1,"[] Property : [$($Property.Name)]")
$Property.Exists = 0
                                        $0bject.Exists = 0
$Key.Dispose()
$Item.Remove()
                                        $This.Update(0,"
                               ")
                                  Module
                                        $Item.Remove()
$This.Update(1,"[_] PSModule : $($Item.Fullname) ")
                                  File
                                        $Item.Remove()
$This.Update(1,"[_] *.psm1 : $($Item.Fullname)")
                                  }
                                  Manifest
                                        $Item.Remove()
$This.Update(1,"[_] *.psd1 : $($Item.Fullname)")
                                  Shortcut
                                        $Item.Remove()
$This.Update(1,"[_] *.lnk : $($Item.Fullname)")
           [Void] Remove()
                 $This.Update(0,"Removing [~] $($This.Label())")
$This.Write(1,$This.Console.Last().Status)
$This.Update(0,"==
                 $This.RemoveItem($This.Root.Shortcut)
$This.RemoveItem($This.Root.Manifest)
$This.RemoveItem($This.Root.File)
$This.RemoveItem($This.Root.Module)
$This.Update(0,"-----
$This.RemoveItem($This.Root.Registry)
```

\$This.Update(\$File.Exists,("[_] {0} [\$Status] " -f \$File.Name.PadRight(\$Max.Length,"

```
$This.Update(0,"
                   $This.RemoveItem($This.Root.Resource)
$This.Update(0,"======
                   $This.Write(1,"Removed [+] $($This.Label())")
            [String] Psm()
                   $F = @( )
$Member = @( )
                  $F += "# Downloaded from {0}" -f $This.Source
$F += "# {0}" -f $This.Resource
$F += "# {0}" -f $This.Version.ToString()
$F += "# <Types>"
$This.Binaries() | % { $F += "Add-Type -AssemblyName $_" }
                  $F += "# <Functions>"
ForEach ($File in $This.GetFolder("Function").Item)
                         $Base = $File.Name -Replace ".ps1",""
If ($Member.Count -eq 0)
                         ElseIf ($Member.Count -gt 0)
                         $F += "# <{0}/{1}>" -f $File.Type, $File.Name
$F += "# {0}" -f $File.Fullname
If (!$File.Content)
                               $File.GetContent()
                         $F += $File.Content
$F += "# </{0}/{1}>" -f $File.Type, $File.Name
                      Member[-1] = $Member[-1].TrimEnd(",")
                             += "Write-Theme -InputObject `"Module [+] [FightingEntropy(`$([char]960))][$($This.Version)]`" -Palette
             [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.Description
= $This.Root.File
                                       = $This.Binaries()
        [Object] ValidateFile([Object]$File)
            Return [ValidateFile]::New($File)
        [Object[]] Validation()
            Return $This.Manifest.Full() | % { $This.ValidateFile($_) }
        Validate()
            $xList = $This.Validation()
$This.Validate($xList)
        Validate([Object[]]$xList)
            $This.Write(3,"Validation [~] Module manifest")
$Ct = $xList | ? Match -eq 0
             Switch ($Ct.Count)
                     $This.Write(3,"Validation [+] All files passed validation")
                     -ne 0}
                     $This.Write(1,"Validation [!] ($($Ct.Count)) files failed validation")
        [String] ToString()
            Return "<FightingEntropy.Module.Installer>"
    [InstallController]::New($Mode)
$Module = FightingEntropy.Module -Mode 0
           Note: (FightingEntropy.Module -Mode 1) loads without writing stuff to the screen
                                                                                                                        Function
  Output
      Here is the output of the function above
                                                                                [Visual Studio]
      PS Prompt:\> $Module
                   : https://www.github.com/mcc85s/FightingEntropy
      Name
                   : [FightingEntropy(π)]
      Description : Beginning the fight against ID theft and cybercrime
      Author
                   : Michael C. Cook Sr.
      Company
                   : Secure Digits Plus LLC
      Copyright
                   : (c) 2023 (mcc85s/mcc85sx/sdp). All rights reserved.
                   : 75f64b43-3b02-46b1-b6a2-9e86cccf4811
      Guid
                   : 04/03/2023 18:53:49
      Date
      Version
                   : 2023.4.0
      os
                   : <FightingEntropy.Module.OS>
                   : <FightingEntropy.Module.Root>
      Root
      Manifest
                   : <FightingEntropy.Module.Manifest>
      Registry
                   : <FightingEntropy.Module.RegistryKey>
```

2022 11 0 011/02/2022 1	0.53.40 FF (CHEU2 2502 HCE1 EC-2 0-0C(HD11	
2023.4.0 04/03/2023 1	.8:53:49 75f64b43-3b02-46b1-b6a2-9e86cccf4811	
		/ Example
gnature /		
Michael C. Cook Sr.	Security Engineer Secure Digits Plus LLC 2023-04-03 18:	55:27
		/ Signature
	Michael C. Cook Sr.	
	Security Engineer	
	Secure Digits Plus LLC	