

【2022HWS硬件安全冬令营预选赛 misc】BadPDF+gogogo

WriteUp

原创

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[BadPDF](#)

[gogogo](#)

BadPDF

附件: 20200308-sitrep-48-covid-19.pdf.lnk

就是个快捷方式不是PDF，差点手贱直接点了



```
%SystemRoot%\system32\cmd.exe /c copy "20200308-sitrep-48-covid-19.pdf.lnk" %tmp%\g4ZokyumBB2gDn.tmp /y&for /r C:\Windows\System32\ %i in (*ertu*.exe) do copy %i %tmp%\msoia.exe /y&findstr.exe "TVNDRgAAAA" %tmp%\g4ZokyumBB2gDn.tmp >%tmp%\cSi1r0uywDNvDu.
```

在虚拟机上的cmd试运行，发现tmp下最新生成了oGhPGUDC03tURV，是个压缩包，解压得到

名称	修改日期	类型	大小
9sOXN6Ltf0afe7.js	2020/3/19 20:59	JavaScript 文件	1 KB
20200308-sitrep-48-covid-19.pdf	2020/3/9 20:36	Microsoft Edge ...	837 KB
cSi1r0uywDNvDu.tmp	2020/3/20 13:34	TMP 文件	1 KB

9sOXN6Ltf0afe7.js就是上面附带的cmd命令，cSi1r0uywDNvDu.tmp是病毒附带的xml配置
ps.原病毒：<https://www.freebuf.com/articles/network/241414.html>

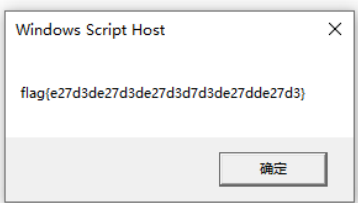
```
<?xml version='1.0'?>
<stylesheet
xmlns="http://www.w3.org/1999/XSL/Transform" xmlns:ms="urn:schemas-microsoft-com:xslt"
xmlns:user="placeholder"
version="1.0">
<output method="text"/>
<ms:script implements-prefix="user" language="VBScript">
<![CDATA[
rBOH7OLTCVxzkH=HrtvBsRh3gNUbe("676d60667a643336653265643336653265643336653265643336653265643336656564333665327c"):e
xecute(rBOH7OLTCVxzkH):function HrtvBsRh3gNUbe(bhhz6HalbOkrki):for rBOH7OLTCVxzkH=1 to len(bhhz6HalbOkrki)step 2
:HrtvBsRh3gNUbe=HrtvBsRh3gNUbe&chr(asc(chr("&h"&mid(bhhz6HalbOkrki,rBOH7OLTCVxzkH,2)))xor 1):next:end function:
]]> </ms:script>
</stylesheet>
```

VBScript

```
rBOH7OLTCVxzkH=HrtvBsRh3gNUbe("676d60667a643336653265643336653265643336653265643336653265643336656564333665327c")
execute(rBOH7OLTCVxzkH)
```

```
function HrtvBsRh3gNUbe(bhhz6HalbOkrki)
for rBOH7OLTCVxzkH=1 to len(bhhz6HalbOkrki)step 2
HrtvBsRh3gNUbe=HrtvBsRh3gNUbe&chr(asc(chr("&h"&mid(bhhz6HalbOkrki,rBOH7OLTCVxzkH,2)))xor 1)
next
end function
```

把execute换掉，改成Wscript.Echo弹出flag。



The screenshot shows a Notepad window with the following VBScript code:

```
1.vbs - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)
rBOH7OLTCVxzkH=HrtvBsRh3gNUbe("676d60667a643336653265643336653265643336653265643336656564333665327c")
Wscript.Echo(rBOH7OLTCVxzkH)

function HrtvBsRh3gNUbe(bhhz6HalbOkrki)
for rBOH7OLTCVxzkH=1 to len(bhhz6HalbOkrki)step 2
HrtvBsRh3gNUbe=HrtvBsRh3gNUbe&chr(asc(chr("&h"&mid(bhhz6HalbOkrki,rBOH7OLTCVxzkH,2)))xor 1)
next
end function
```

Below the code, a Windows Script Host dialog box is displayed with the output: `flag(e27d3de27d3de27d3d7d3de27dde27d3)` and a '确定' (OK) button.

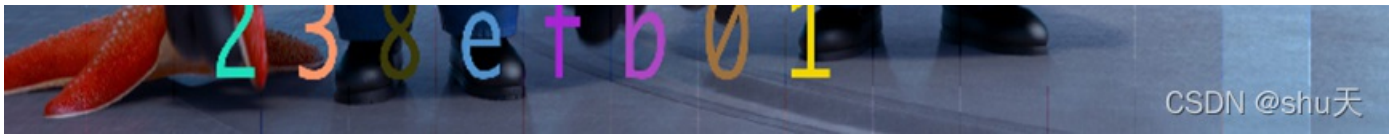
CSDN @shu天

gogogo

附件: puzzle.zip, 2.raw

拼图，把图片合起来，然后比例调成1: 1

```
(kali@kali)-[~/Desktop/puzzle]
└─$ montage *.png -tile 16x16 -geometry +0+0 flag.png
```

得到密码3e8f092d4d7b80ce338d6e238efb01（听说非预期，剪切板里面有这个密码欸，clipboard可以）

然后看raw镜像，取出压缩包

```
0x0000000002182dc0 1 0 R--rw- \Device\HarddiskVolume1\Documents and Settings\Administrator\桌面\csgo.zip
0x00000000021813a0 1 1 RW-rw- \Device\HarddiskVolume1\WINDOWS\WindowsUpdate.log
0x0000000002181ef8 2 1 R--r-- \Device\HarddiskVolume1\WINDOWS\inf\syssetup.PNF
0x0000000002182dc0 1 0 R--rw- \Device\HarddiskVolume1\Documents and Settings\Administrator\桌面\csgo.zip
0x0000000002183538 1 0 R--r-d \Device\HarddiskVolume1\WINDOWS\system32\msvcirt.dll
0x0000000002184ef8 1 0 R--r-d \Device\HarddiskVolume1\WINDOWS\system32\duser.dll
```

解压得到一张图片，binwalk可以看到里面夹了一张图片，

```
dalone/file.None.0x81d84ca8$ binwalk csgo.png
```

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	PNG image, 421 x 421, 8-bit colormap, non-interlaced
186	0xBA	Zlib compressed data, best compression
8371	0x20B3	PNG image, 1048 x 491, 8-bit/color RGB, non-interlaced

手动分离



根据枪的提示发现是Aztec code（一种定位在中间的二维码），在线解码器：<https://products.aspose.app/barcode/zh-hans/recognize/aztec#>

参考文章:

<https://renjikai.com/2022-hws-wc-precomp-writeup/>

<https://www.cnblogs.com/c10udlnk/p/15846190.html>