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TRAINING

Name	Windows Recon: SMB: Discover and Mount
URL	https://attackdefense.com/challengedetails?cid=2220
Туре	Windows Reconnaissance: SMB

**Important Note:** This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

**Step 1:** Checking the IP address.

Command: ipconfig

```
Administrator: Windows PowerShell (4)
Windows PowerShell
Copyright (C) 2014 Microsoft Corporation. All rights reserved.
PS C:\Users\Administrator> ipconfig
Windows IP Configuration
Ethernet adapter Ethernet 2:
   Connection-specific DNS Suffix
                                       . : ap-southeast-1.compute.internal
                                           fe80::4d1e:a9b:caea:de2f%12
10.0.24.95
   Link-local IPv6 Address .
   IPv4 Address. . .
   Subnet Mask . .
                                           255.255.240.0
   Default Gateway .
Tunnel adapter isatap.ap-southeast-1.compute.internal:
                                           Media disconnected
   Media State . .
   Connection-specific DNS Suffix
                                         : ap-southeast-1.compute.internal
PS C:\Users\Administrator> 🛓
```

**Step 2:** Run Nmap scan against the subnet to discover the target machine's IP address.

Command: nmap 10.0.24.0/20 -- open

The target subnet is "255.255.240.0" hence we have mentioned CIDR to 20.

**Note:** Nmap '--open' option would show only exposed ports of the live hosts.

```
PS C:\Users\Administrator> nmap 10.0.24.0/20 --open
Starting Nmap 7.91 (https://nmap.org) at 2020-12-26 10:17 Coordinated Universal Time
Nmap scan report for ip-10-0-22-92.ap-southeast-1.compute.internal (10.0.22.92)
Host is up (0.00s latency).
Not shown: 992 closed ports
PORT
               STATE SERVICE
135/tcp
                        msrpc
netbios-ssn
               open
139/tcp
               open
 445/tcp
                        microsoft-ds
               open
3389/tcp
               open
                        ms-wbt-server
 49152/tcp
                        unknown
              open
 49153/tcp open
                        unknown
49154/tcp open
49155/tcp open
                        unknown
                        unknown
 MAC Address: 06:E3:FA:80:B6:80 (Unknown)
Nmap scan report for ip-10-0-24-95.ap-southeast-1.compute.internal (10.0.24.95)
Host is up (0.00s latency).
Not shown: 990 closed ports
PORT
              STATE SERVICE
135/tcp
                      msrpc
netbios-ssn
             open
139/tcp
             open
 445/tcp
                      microsoft-ds
             open
1025/tcp open
                      NFS-or-IIS
1026/tcp open
1027/tcp open
                      LSA-or-nterm
                      IIS
 1028/tcp open
                      unknown
1035/tcp open
1039/tcp open
3389/tcp open
                      multidropper
                      sbl
                      ms-wbt-server
Nmap done: 4096 IP addresses (4 hosts up) scanned in 24.84 seconds
PS C:\Users\Administrator>
```

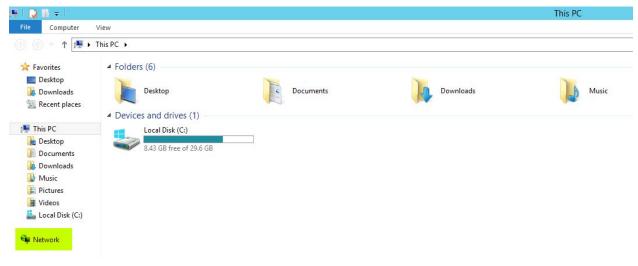
We have discovered the target machine's IP address (10.0.22.92) and the target machine exposed to multiple ports. SMB service port 445 is also exposed.

We have the credentials to access the target server. First, we will access SMB service using GUI. i.e administrator:smbserver\_771

Step 3: Open "Map Network Drive"

Go to This PC → Network → Right Click on Network → Map Network Drive

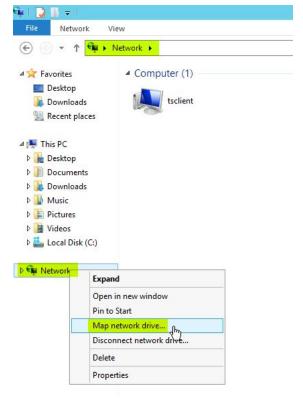
## This PC

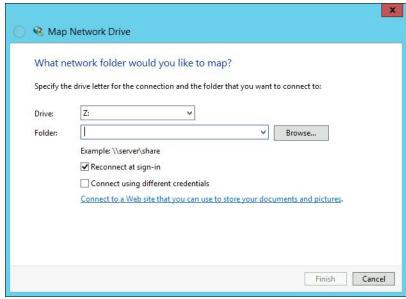


## Network

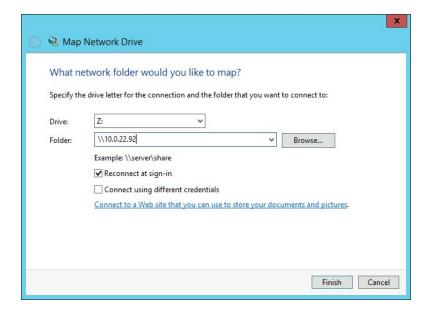


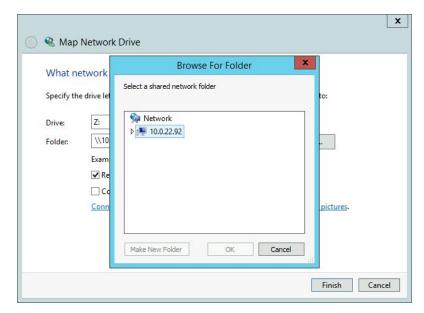
Right Click on Network and select the "Map Network Drive" option:





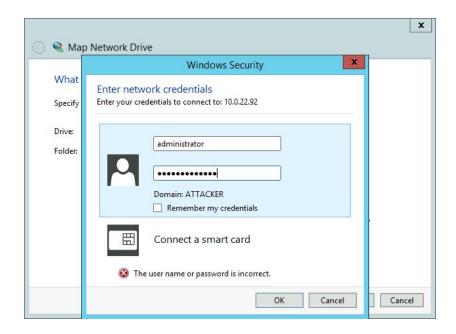
Type target machine IP address "\\10.0.22.92" in Folder: field and hit Browse...



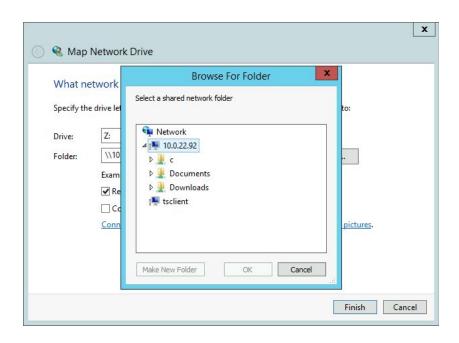


We can observe, we have discovered a network share on the machine 10.0.22.92.

Select the target machine IP address and we would expect a network credential prompt. Here, we need to enter target machine credentials which are provided to you i.e administrator:smbserver\_771



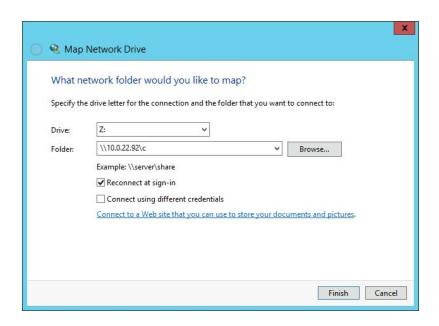
## Click "Ok"

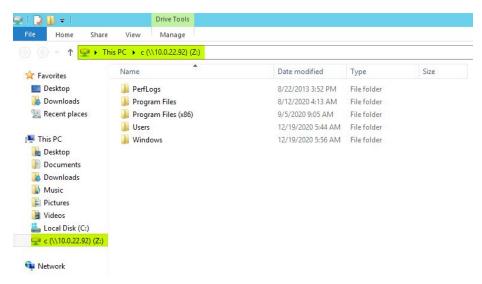


We can notice, we have received all the shared folders from the target machine.

We can select any folder to create a network drive. In this case, we are selecting the "C:\" drive of the target machine.

Select the folder and click "Ok" → Finish

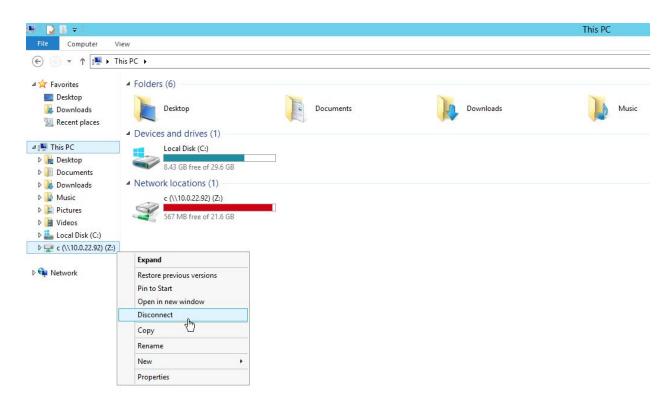




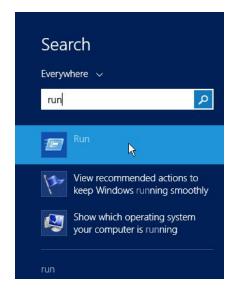
We have successfully mounted the target machine shared folders.

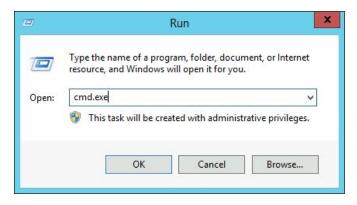
**Step 4:** We could also mount the drive using the Windows command prompt.

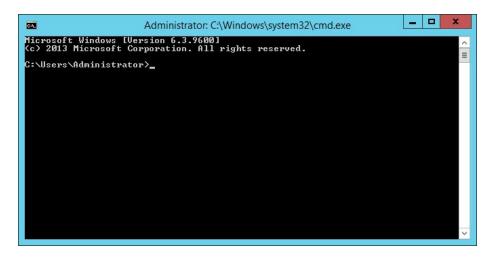
Go to "This PC" and disconnect the network drive.

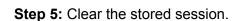


Step 5: Open Run and type cmd.exe to access the windows command prompt.









Command: net use \* /delete

```
C:\Users\Administrator>net use * /delete
You have these remote connections:
\\10.0.22.92\IPC$
Continuing will cancel the connections.
Do you want to continue this operation? (Y/N) [N]: y
The command completed successfully.

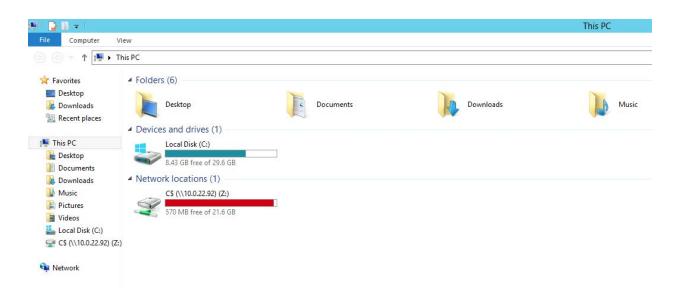
C:\Users\Administrator>
```

Step 6: Mount the target folder.

Command: net use Z: \\10.0.22.92\C\$ smbserver\_771 /user:administrator

```
C:\Users\Administrator>net use Z: \\10.0.22.92\C$ smbserver_771 /user:administra
tor
The command completed successfully.
C:\Users\Administrator>_
```

Again, visit This PC and we can notice, there is a new network shared drive i.e Z:\



We have successfully discovered a target host machine and mounted their network shared folder to the attacker machine i.e local machine.



## References:

1. Microsoft SMB Protocol and CIFS Protocol Overview (https://docs.microsoft.com/en-us/windows/win32/fileio/microsoft-smb-protocol-and-cifs-protocol-overview#:~:text=The%20Server%20Message%20Block%20(SMB,is%20a%20dialect%20of%20SMB.)