## Active Reconnaissance

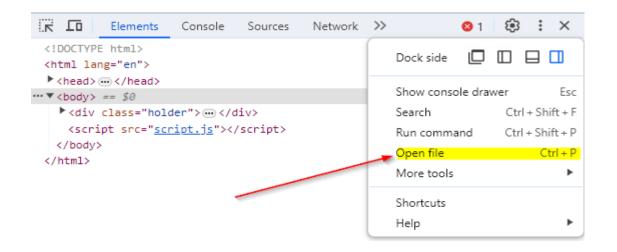
# Learn how to use simple tools such as traceroute, ping, telnet, and a web browser to gather information

## Task 1: Introduction

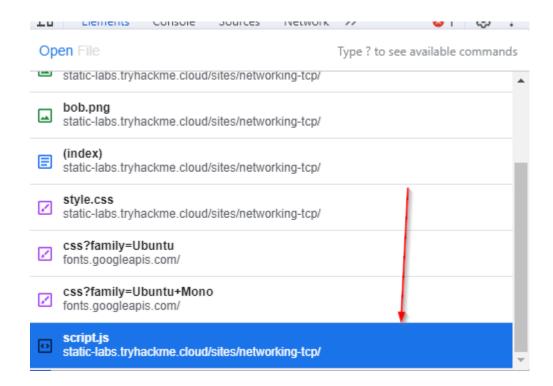
Active reconnaissance involves initiating contact with a target to gather information.

## Task 2: Web Browser

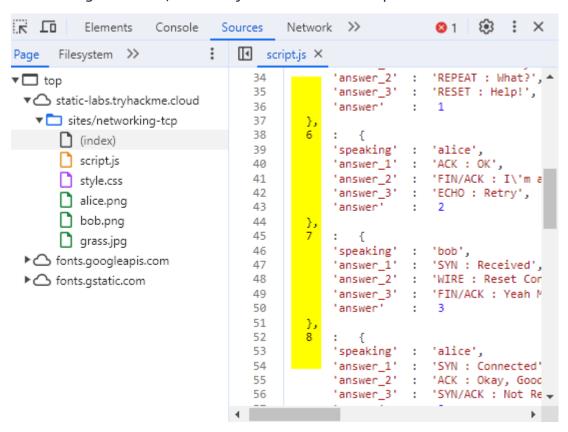
- "Ctrl+Shift+i" on a PC will open the Developer Tools on a web page
- > Click on the link to the website provided
- Open the developer tool using the shortcode above
- > Click on the 3 dots and open the file



#### ➤ Go to the script.js file



Congratulations, You have your total number of questions



Question	Answer
Browse to the <u>following website</u> and ensure that you have opened your Developer Tools on AttackBox Firefox, or the browser on your computer. Using the Developer Tools, figure out the total number of questions.	8

## Task 3: Ping

- > The syntax is ping [options] <hostname or IP address> NOTE: USING OPTIONS IS OPTIONAL
- > Deploy the VM for this task.
- ➤ Go to the man page of Ping using "man ping"
- ➤ Enter the following command: "ping -c 10 MACHINE\_IP," where the "-c 10" option specifies that the ping command should send 10 ICMP echo requests to the specified MACHINE\_IP address. NOTE: your MACHINE\_IP changes to your actual machine if you have deployed your VM.

Question	Answer
Which option would you use to set the size of the data carried by the ICMP	-S
echo request?	
What is the size of the ICMP header in bytes?	8
Does MS Windows Firewall block ping by default? (Y/N)	у
Deploy the VM for this task and using the AttackBox terminal, issue the command ping -c "Your Machine IP". How many ping replies did you get back?	10

## Task 4: Traceroute

Syntax is traceroute [options] <hostname or IP address>

Question	Answer
In Traceroute A, what is the IP address of the last router/hop before	172.67.69.208
reaching tryhackme.com?	
In Traceroute B, what is the IP address of the last router/hop before	104.26.11.229
reaching tryhackme.com?	
In Traceroute B, how many routers are between the two systems?	26

### Task 5:Telnet

teletype network is a network protocol used for connecting to remote devices over a network. It allows you to establish a text-based, interactive session with a remote device via the command line interface (CLI) of that device. Its secure alternative is SSH

Syntax is telnet [options] [hostname or IP address] [port]

```
Trying 10.10.47.83...

Connected to 10.10.47.83.

Escape character is '^]'.

^]

HTTP/1.1 400 Bad Request

Date: Wed, 04 Oct 2023 11:53:14 GMT

Server: Apache/2.4.10 (Debian)

Content-Length: 308

Connection: close

Content-Type: text/html; charset=iso-8859-1
```

Question	Answer
Start the attached VM from Task 3 if it is not already started. On the	Apache
AttackBox, open the terminal and use the telnet client to connect to the VM	
on port 80. What is the name of the running server?	
What is the version of the running server (on port 80 of the VM)?	2.4.10

#### Task 6: Netcat

Netcat, "nc," is a networking utility used for reading from and writing to network connections. It can function as a client that connects to a listening port or as a server that listens on a port over UDP or TCP.

- The syntax is nc [options] [hostname] [port]
- > Common options and meanings are -l for listening mode, -n for numeric only, -v for verbose output and -p to specify port.
- For the task, type nc [hostname/IP address] [port]

```
root@ip-10-10-209-60:~# <mark>nc 10.10.190.61 21</mark>
220 debra2.thm.local FTP server (Version 6.4/OpenBSD/Linux-<mark>ftpd-0.17</mark>) read
y.
```

Question	Answer
Start the VM and open the AttackBox. Once the AttackBox loads, use Netcat to connect to the VM port 21. What is the version of the running server?	0.17

## ADD THIS TO YOUR PERSONAL COMMAND LIST, THIS IS A CUE TO CREATE YOUR OWN TOOL BOX OR TOOL LIST

Command	Syntax
Ping on Linux or macOS	ping -c [Hostname]
Ping on MS Windows	ping -n [Hostname]
Traceroute on Linux or macOS	traceroute [Hostname]
Tracert on MS Windows	Tracert [Hostname]
telnet	telnet [Hostname] [Port Number]
netcat as client	nc [Hostname] [Port Number]
netcat as server	nc -lvnp PORT_NUMBER