

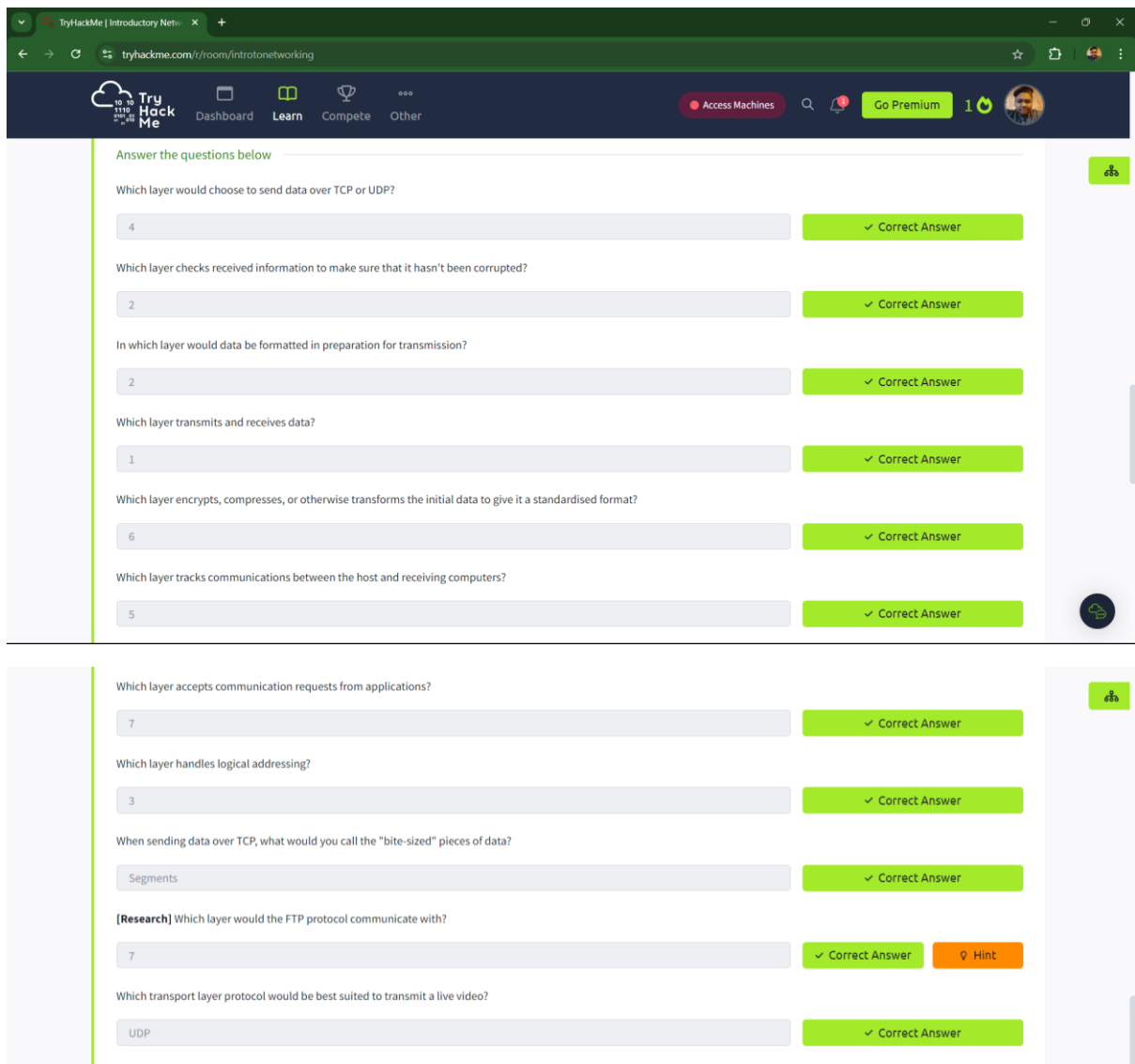
## **CN-LAB**

### Introductory Networking

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#### Task-2 → The OSI Model: An Overview



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tryhackme.com/room/introtonetworking

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Answer the questions below

Which layer would choose to send data over TCP or UDP?

4 ✓ Correct Answer

Which layer checks received information to make sure that it hasn't been corrupted?

2 ✓ Correct Answer

In which layer would data be formatted in preparation for transmission?

2 ✓ Correct Answer

Which layer transmits and receives data?

1 ✓ Correct Answer

Which layer encrypts, compresses, or otherwise transforms the initial data to give it a standardised format?

6 ✓ Correct Answer

Which layer tracks communications between the host and receiving computers?

5 ✓ Correct Answer

Which layer accepts communication requests from applications?

7 ✓ Correct Answer

Which layer handles logical addressing?

3 ✓ Correct Answer

When sending data over TCP, what would you call the "bite-sized" pieces of data?

Segments ✓ Correct Answer

[Research] Which layer would the FTP protocol communicate with?

7 ✓ Correct Answer Hint

Which transport layer protocol would be best suited to transmit a live video?

UDP ✓ Correct Answer

## Task-4 → The TCP/IP Model

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Answer the questions below

Which model was introduced first, OSI or TCP/IP?

TCP/IP

✓ Correct Answer

Which layer of the TCP/IP model covers the functionality of the Transport layer of the OSI model (Full Name)?

Transport

✓ Correct Answer

Which layer of the TCP/IP model covers the functionality of the Session layer of the OSI model (Full Name)?

Application

✓ Correct Answer

The Network Interface layer of the TCP/IP model covers the functionality of two layers in the OSI model. These layers are Data Link, and?.. (Full Name)?

Physical

✓ Correct Answer

Which layer of the TCP/IP model handles the functionality of the OSI network layer?

Internet

✓ Correct Answer

What kind of protocol is TCP?

Connection-based

✓ Correct Answer Hint

What is SYN short for?

Synchronise

✓ Correct Answer Hint

What is the second step of the three way handshake?

SYN/ACK

✓ Correct Answer

What is the short name for the "Acknowledgement" segment in the three-way handshake?

ACK

✓ Correct Answer

## Task-5 → PING

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Answer the questions below

What command would you use to ping the bbc.co.uk website?

ping bbc.co.uk

✓ Correct Answer

Ping *muirlandoracle.co.uk*

What is the IPv4 address?

217.160.0.152

✓ Correct Answer Hint

What switch lets you change the interval of sent ping requests?

-i

✓ Correct Answer Hint

What switch would allow you to restrict requests to IPv4?

-4

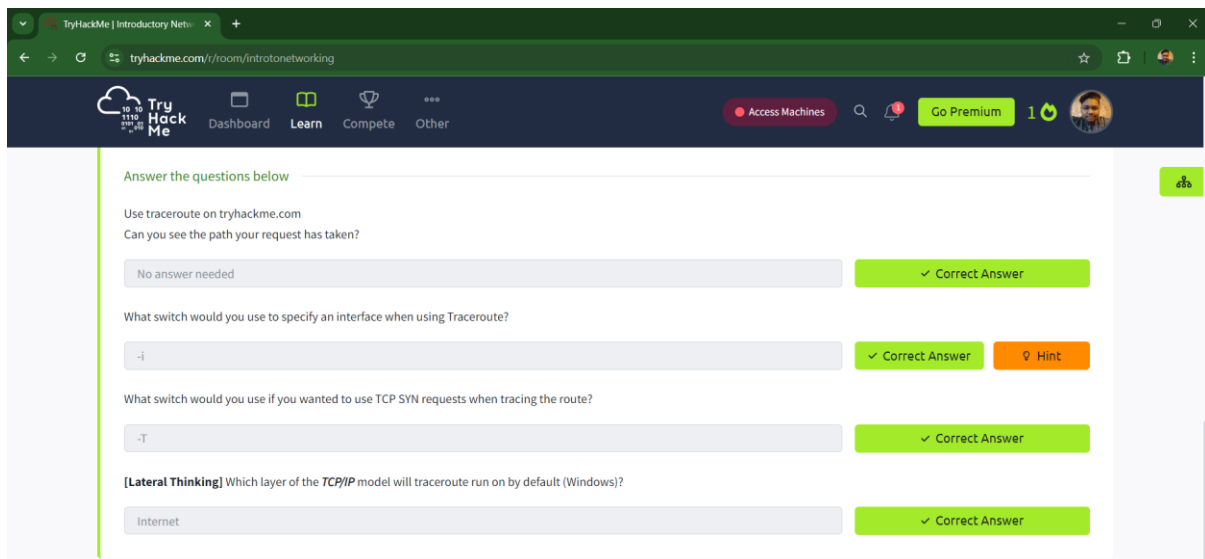
✓ Correct Answer

What switch would give you a more verbose output?

-v

✓ Correct Answer

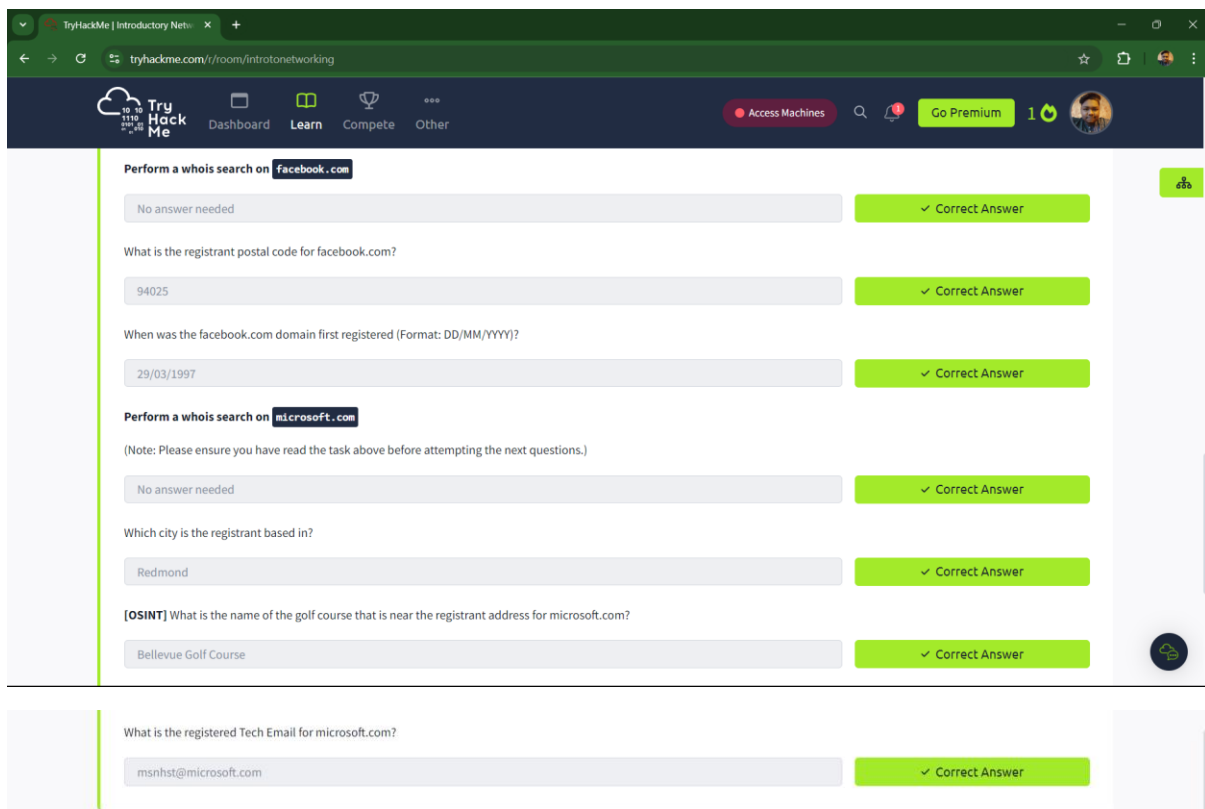
## Task-6 → Traceroute



The screenshot shows the TryHackMe interface for the 'Introductory Networking' room. The task is titled 'Traceroute'. The instructions are: 'Use traceroute on tryhackme.com. Can you see the path your request has taken?'. There are four questions with input fields and 'Correct Answer' buttons:

- Question 1: 'Can you see the path your request has taken?' with input 'No answer needed' and a 'Correct Answer' button.
- Question 2: 'What switch would you use to specify an interface when using Traceroute?' with input '-i' and a 'Correct Answer' button, plus a 'Hint' button.
- Question 3: 'What switch would you use if you wanted to use TCP SYN requests when tracing the route?' with input '-T' and a 'Correct Answer' button.
- Question 4: '[Lateral Thinking] Which layer of the TCP/IP model will traceroute run on by default (Windows)?' with input 'Internet' and a 'Correct Answer' button.

## Task-7 → WHOIS



The screenshot shows the TryHackMe interface for the 'Introductory Networking' room. The task is titled 'WHOIS'. The instructions are: 'Perform a whois search on facebook.com'. There are five questions with input fields and 'Correct Answer' buttons:

- Question 1: 'Perform a whois search on facebook.com' with input 'No answer needed' and a 'Correct Answer' button.
- Question 2: 'What is the registrant postal code for facebook.com?' with input '94025' and a 'Correct Answer' button.
- Question 3: 'When was the facebook.com domain first registered (Format: DD/MM/YYYY)?' with input '29/03/1997' and a 'Correct Answer' button.
- Question 4: 'Perform a whois search on microsoft.com' with input 'No answer needed' and a 'Correct Answer' button.
- Question 5: 'Which city is the registrant based in?' with input 'Redmond' and a 'Correct Answer' button.
- Question 6: '[OSINT] What is the name of the golf course that is near the registrant address for microsoft.com?' with input 'Bellevue Golf Course' and a 'Correct Answer' button.
- Question 7: 'What is the registered Tech Email for microsoft.com?' with input 'msnhst@microsoft.com' and a 'Correct Answer' button.