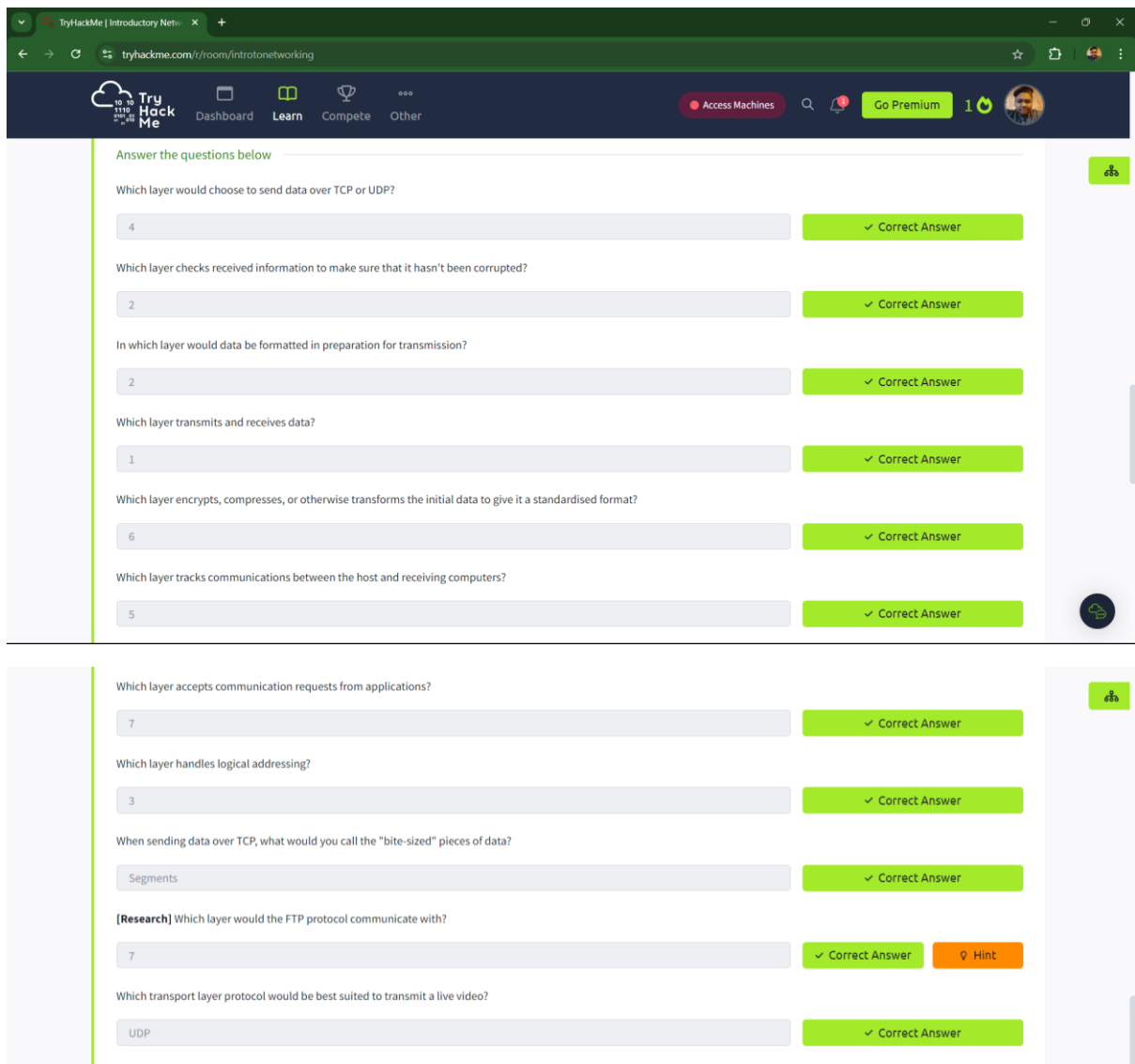# CN-LAB

Introductory Networking

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Roll Number: 27

Task-2 → The OSI Model: An Overview

Task-4 → The TCP/IP Model

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

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

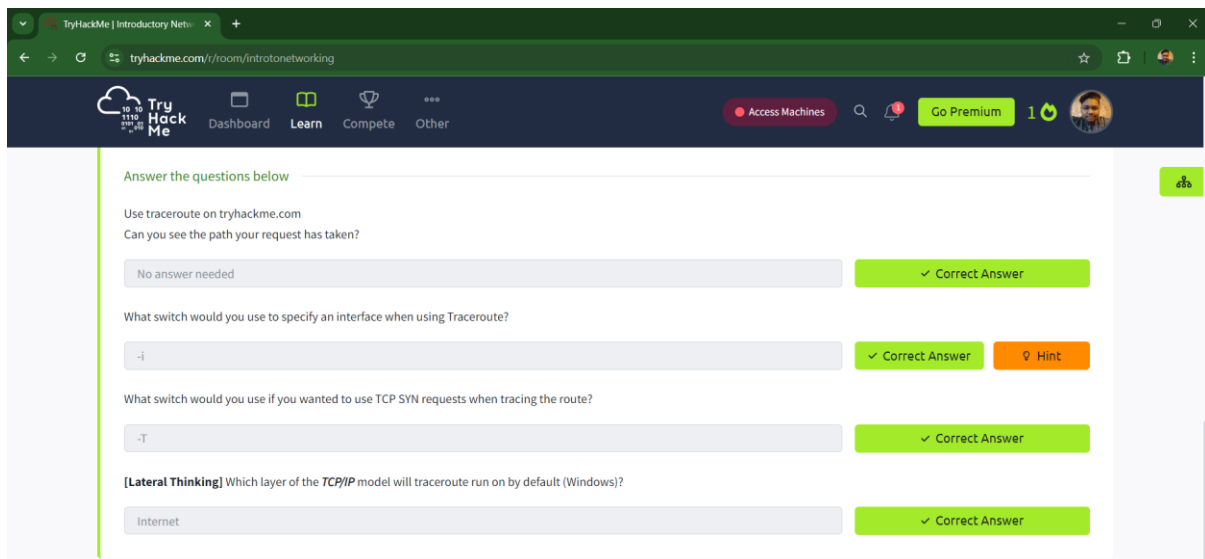What switch would allow you to restrict requests to IPv4?

-4 — ✓ Correct Answer

What switch would give you a more verbose output?
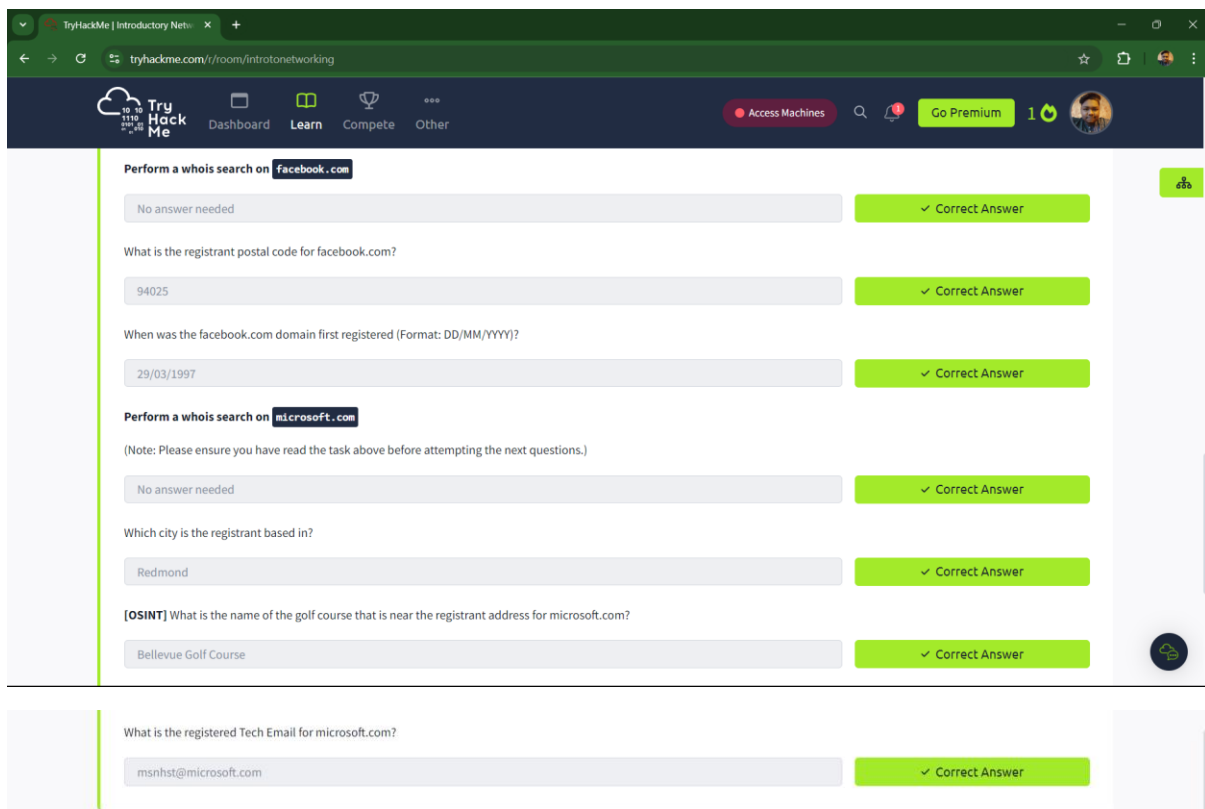
-v — ✓ Correct Answer

Task-6 → Traceroute

Answer the questions below

Use traceroute on tryhackme.com
Can you see the path your request has taken?

| No answer needed | ✓ Correct Answer |

What switch would you use to specify an interface when using Traceroute?

| -i | ✓ Correct Answer | ♀ Hint |

What switch would you use if you wanted to use TCP SYN requests when tracing the route?

| -T | ✓ Correct Answer |

[Lateral Thinking] Which layer of the *TCP/IP* model will traceroute run on by default (Windows)?

| Internet | ✓ Correct Answer |

Task-7 → WHOIS

Perform a whois search on `facebook.com`

| No answer needed | ✓ Correct Answer |

What is the registrant postal code for facebook.com?

| 94025 | ✓ Correct Answer |

When was the facebook.com domain first registered (Format: DD/MM/YYYY)?

| 29/03/1997 | ✓ Correct Answer |

Perform a whois search on `microsoft.com`

(Note: Please ensure you have read the task above before attempting the next questions.)

| No answer needed | ✓ Correct Answer |

Which city is the registrant based in?

| Redmond | ✓ Correct Answer |

[OSINT] What is the name of the golf course that is near the registrant address for microsoft.com?

| Bellevue Golf Course | ✓ Correct Answer |

What is the registered Tech Email for microsoft.com?

| msnhst@microsoft.com | ✓ Correct Answer |