CYBERSECURITY TRAINING
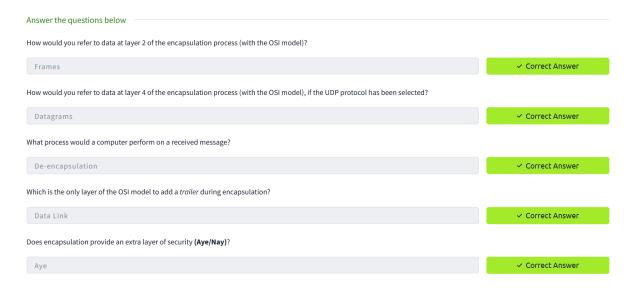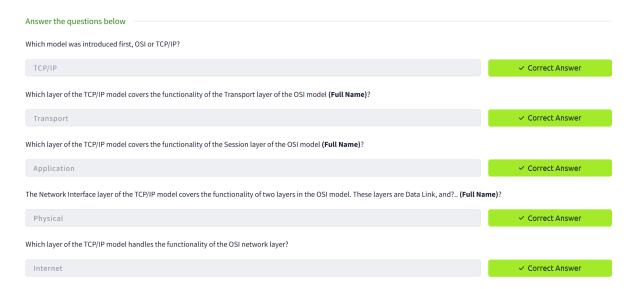
(WEEK 1-Day6)

Attempted quiz on Tryhackme lab

QUIZ-1: OSI model Overview

Answer the questions below

Which layer would choose to send data over TCP or UDP? Answer with the number of the layer: e.g. if the answer would be "the application layer", then you would enter "7".

4	✓ Correct Answer

Which layer checks received information to make sure that it hasn't been corrupted? Answer with the number of the layer: e.g. if the answer would be "the application layer", then you would enter "7".

2	✓ Correct Answer

In which layer would data be formatted in preparation for transmission? Answer with the number of the layer: e.g. if the answer would be "the application layer", then you would enter "7".

2	✓ Correct Answer

Which layer transmits and receives data? Answer with the number of the layer: e.g. if the answer would be "the application layer", then you would enter "7".

1	✓ Correct Answer

Which layer encrypts, compresses, or otherwise transforms the initial data to give it a standardised format? Answer with the number of the layer: e.g. if the answer would be "the application layer", then you would enter "7".

6	✓ Correct Answer

Which layer tracks communications between the host and receiving computers? Answer with the number of the layer: e.g. if the answer would be "the application layer", then you would enter "7".

5	✓ Correct Answer

Which layer accepts communication requests from applications? Answer with the number of the layer: e.g. if the answer would be "the application layer", then you would enter "7".

7	✓ Correct Answer

Which layer handles logical addressing? Answer with the number of the layer: e.g. if the answer would be "the application layer", then you would enter "7".

3	✓ Correct Answer

When sending data over TCP, what would you call the "bite-sized" pieces of data? Answer with the number of the layer: e.g. if the answer would be "the application layer", then you would enter "7".

Segments	✓ Correct Answer

QUIZ -2: Encapsulation

How would you refer to data at layer 2 of the encapsulation process (with the OSI model)?

Frames	✓ Correct Answer

How would you refer to data at layer 4 of the encapsulation process (with the OSI model), if the UDP protocol has been selected?

Datagrams	✓ Correct Answer

What process would a computer perform on a received message?

De-encapsulation	✓ Correct Answer

Which is the only layer of the OSI model to add a *trailer* during encapsulation?

Data Link	✓ Correct Answer

Does encapsulation provide an extra layer of security **(Aye/Nay)**?

Aye	✓ Correct Answer

QUIZ – 4: 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

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

QUIZ – 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

QUIZ – 6 : Traceroute

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