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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

78°F Cloudy

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10:12 PM 9/26/2024

For the "Which Layer" Questions below, answer using the layer number (1-7)

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

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?

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







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Have a go at the following questions. Any questions about syntax can be answered using the man page for ping (`man ping` on Linux).

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 Networking Tools Traceroute


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Answer the questions below

Perform a whois search on **facebook.com**

No answer needed

Complete

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

Complete

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

78°F Heavy rain



ENG IN 10:33 PM 9/26/2024



Perform a whois search on **microsoft.com**

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

No answer needed

Complete

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

Task 8 Networking Tools Dig

Task 9 Further Reading

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Room Type

Free Room. Anyone can deploy virtual machines in the room (without being subscribed)!

Users in Room

409,105

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### Task 9 Further Reading

That's us completed our whirlwind tour of networking basics. Hopefully you've found it informative!

Networking is one of those things that you just need to learn. We've covered the very basics, but it would be a very good idea to continue to learn by yourself.

In terms of further information, feel free to reach out in the TryHackMe Discord if you want any help with the contents of this room. Additionally, if you want to expand your knowledge of networking theory, the [CISCO Self Study Guide by Steve McQuerry](#) is a great resource to work from. There may be a more up to date version available; however, this edition is cheap, readily available, and most importantly, still very relevant. Whilst it is designed to as a study guide for the CCNA exam, that book serves equally well as a very rounded introduction to networking principles.

Answer the questions below

Read the final thoughts

No answer needed

✓ Correct Answer

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Room Type

Free Room. Anyone can deploy virtual machines in the room (without being subscribed)!

Users in Room

409,105

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