Assignment 01 CCN Theory



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Class Section: A

"On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work."

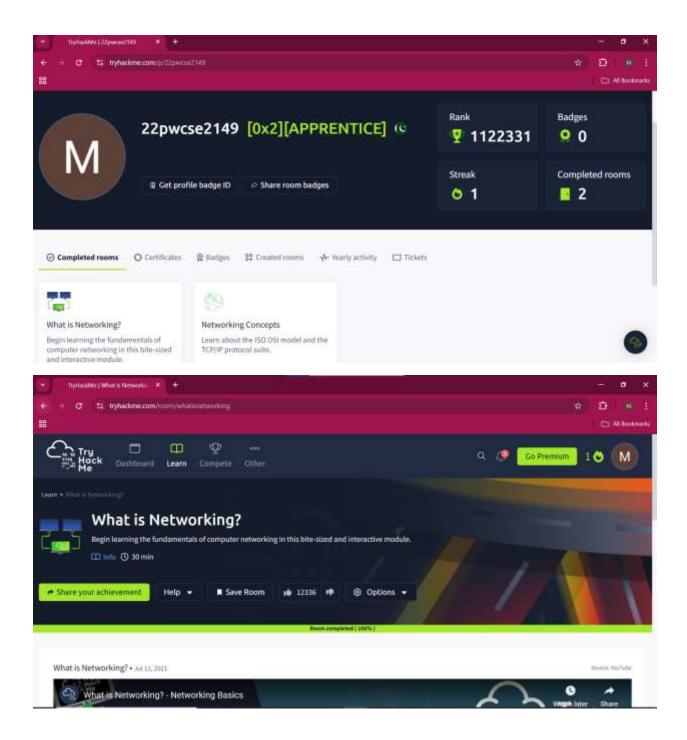
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Engr. Ihsan ul haq

Month Day, Year (08 04, 2025)

Department of Computer Systems Engineering
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What is the key term for devices that are connected together?

Answer:

Network

Who invented the World Wide Web?

Answer:
Tim Berners-Lee
What does the term "IP" stand for?
Answer:
Internet Protocol
What is each section of an IP address called?
Answer: octet
How many sections (in digits) does an IPv4 address have?
Answer:
4
What does the term "MAC" stand for?
Answer:
Media Access Control
Deploy the interactive lab using the "View Site" button and spoof your MAC address to access the site. What is the flag?
Answer: THM{YOU_GOT_ON_TRYHACKME}
What protocol does ping use? Answer:
ICMP
What is the syntax to ping 10.10.10.10?
Answer:
ping 10.10.10.10
What flag do you get when you ping 8.8.8.8?

Answer:

THM{I_PINGED_THE_SERVER}



Which layer is responsible for end-to-end communication between running applications?

Answer:

4

Which layer is responsible for routing packets to the proper network?

Answer:

3

In the OSI model, which layer is responsible for encoding the application data?

Answer:

6

Which layer is responsible for transferring data between hosts on the same network segment?

Answer:

2

To which layer does HTTP belong in the TCP/IP model?

Answer:

Application Layer

How many layers of the OSI model does the application layer in the TCP/IP model cover?
Answer:
3
Which of the following IP addresses is not a private IP address? Answer: 49.69.147.197
Which of the following IP addresses is not a valid IP address?
Answer: 192.168.305.19
Which protocol requires a three-way handshake? Answer: TCP What is the approximate number of port numbers (in thousands)?
Answer: 65
On a WiFi, within what will an IP packet be encapsulated? Answer: Frame
What do you call the UDP data unit that encapsulates the application data? Answer: Datagram
What do you call the data unit that encapsulates the application data sent over TCP? Answer: segment
Use telnet to connect to the web server on MACHINE IP. What is the name and version of the HTTP server? Answer: lighttpd/1.4.63
What flag did you get when you viewed the page? Answer: THM{TELNET_MASTER