Network Fundamentals

Packets & Frames

Task 1:

Answer the questions below

What is the name for a piece of data when it **does have** IP addressing information?

| Packet | ✓ Correct Answer | ♀ Hint |

What is the name for a piece of data when it **does not have** IP addressing information?

| Frame | ✓ Correct Answer | ♀ Hint |

Task 2:

What is the header in a TCP packet that ensures the integrity of data?

| checksum | ✓ Correct Answer |

Provide the order of a normal Three-way handshake (with each step separated by a comma)

| SYN,SYN/ACK,ACK | ✓ Correct Answer | ♀ Hint |

Task 3:

THM{TCP_CHATTER}

What is the value of the flag given at the end of the conversation?

| THM{TCP_CHATTER} | ✓ Correct Answer |

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Task 4:

What does the term "UDP" stand for?

| User Datagram Protocol | ✓ Correct Answer |

What type of connection is "UDP"?

| stateless | ✓ Correct Answer |

What protocol would you use to transfer a file?

| TCP | ✓ Correct Answer |

What protocol would you use to have a video call?

| UDP | ✓ Correct Answer |

Task 5:

```
user@thm:~$ nc 8.8.8.8 1234
Connection Received: THM{YOU_CONNECTED_TO_A_PORT}
user@thm:~$ nc
```

Answer the questions below

What is the flag received from the challenge?

| THM{YOU_CONNECTED_TO_A_PORT} | ✓ Correct Answer |

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