

# Congratulations! You passed!

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## The Transport Layer

TOTAL POINTS 4

1. What ordering of TCP flags makes up the Three-way Handshake?

1 / 1 point

- ☐ FIN, FIN/ACK, ACK
- ☐ SYN, ACK, FIN
- ☐ SYN, ACK, SYN, ACK
- ☒ SYN, SYN/ACK, ACK



**Correct**

Great work! The computer that wants to establish a connection sends a packet with the SYN flag set. Then, the server responds with a packet with both the SYN and ACK flags set. Finally, the original computer sends a packet with just the ACK flag set.

2. Transport layer protocols, like TCP and UDP, introduce the concept of a port. How many bits is a port field?

1 / 1 point

- ☐ 4 bits
- ☐ 8 bits
- ☒ 16 bits
- ☐ 32 bits



**Correct**

Nice job! A TCP or UDP port is a 16-bit number, meaning there are theoretically 65,535 possible values it can have.

3. Please select all valid TCP control flags.

0.833 / 1 point

☐ URG

☐ WAIT

☒ RST



**Correct**

You got it! RST is used to reset a connection if something has gone wrong.

☐ CLOSE

☒ ACK



**Correct**

Nice job! ACK is short for acknowledged and means that the data was received.

☐ LISTEN

You didn't select all the correct answers

4. A device that blocks traffic that meets certain criteria is know as a \_\_\_\_\_.

1 / 1 point

☐ Hub

☐ Switch

☐ Router

☒ Firewall



**Correct**

That's right! A firewall is used to block certain defined types of traffic.