

Which layer of the OSI model do IP addresses use?

Layer 2 (Data link)

correct

Layer 3 (Network)



Layer 4 (Transport)

Layer 5 (Session)

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Which technology prevents us from running out of IPv4 addresses?

correct

NAT (Network Address Translation)



CAT (Central Address Translation)

SAT (Signal Address Translation)

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Which class of network is 10.0.0.0?

correct

Class A



Class B

Class C

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Which layer of the OSI model do Media Access Control (MAC) addresses use?

Layer 1

correct

Layer 2



Layer 4

Layer 5

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The first six hexadecimal digits of a mac address tell you...

The unique ID for that hardware unit

If networking is enabled on the device

correct

The vendor that produced the unit



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Which protocol is connectionless?

TCP

correct

UDP



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Which of the following demonstrates the three-way handshake?

SYN > ACK > SYN ACK

SYN > SYN > ACK

SYN > ACK > ACK

correct

SYN > SYN ACK > ACK



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Which TCP protocol is commonly found on port 21?

SSH

SMTP

POP3

correct

FTP



SMB

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Which UDP protocol is commonly found on port 161?

DNS

DHCP

correct

SNMP



TFTP

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If your router is both layer 2 and 3, which two functions it performing?

Session management

correct

Switching



correct

Routing



Transportation

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What is the correct order for the OSI model?

physical, network, transport, session, data, presentation, application

physical, data, network, transport, session, application, presentation

physical, data, transport, network, session, presentation, application

correct

physical, data, network, transport, session, presentation, application



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As the CIDR number increases (e.g. from /24 to /25),
the number of hosts in a subnet...

correct

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The subnet mask for /16 is...

correct

☒ 255.255.0.0☐ 255.255.255.0☐ 255.255.255.255[< Back](#)[Continue >](#)

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Which IP addresses are valid the subnet of 10.10.0.0/16? (multiple choice)

10.10.15.10



10.11.15.10

correct

10.10.0.1



10.10.0.255

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Which two addresses would be typically reserved (i.e. not assignable to hosts) in the IP range 192.168.0.1/24? (multiple choice)

correct

192.168.0.0



192.168.0.1

192.168.0.192

correct

192.168.0.255



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