

98-366^{Q&As}

Networking Fundamentals

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QUESTION 1

One reason to incorporate VLANs in a network is to:

- A. Increase the number of available IP addresses.
- B. Increase the number of available Media Access Control (MAC) addresses.
- C. Reduce the number of broadcast domains.
- D. Reduce the number of nodes in a broadcast domain.

Correct Answer: D

VLANs provide the following advantages:

*

VLANs enable logical grouping of end-stations that are physically dispersed on a network. ...

*

VLANs reduce the need to have routers deployed on a network to contain broadcast traffic. ...

*

Confinement of broadcast domains on a network significantly reduces traffic.

By confining the broadcast domains, end-stations on a VLAN are prevented from listening to or receiving broadcasts not intended for them. Moreover, if a router is not connected between the VLANs, the end-stations of a VLAN cannot communicate with the end-stations of the other VLANs.

QUESTION 2

This question requires that you evaluate the underlined text to determine if it is correct.

When a client computer is unable to reach a DHCP server, it will automatically assign an IP address in the "10.0.0.0 -10.0.0.255" range.

Select the correct answer if the underlined text does not make the statement correct. Select "\\No change is needed" if the underlined text makes the statement correct.

- A. 127.0.0.0-127.0.0.255
- B. 169.254.0.0-169.254.255.255
- C. 192.168.100.0 -192.168.100.255
- D. No change is needed

Correct Answer: B

169.254.0.0 - 169.254.255.255 is the APIPA address range. An APIPA address is used when the DHCP server is not available.

QUESTION 3

A service that resolves NetBIOS names to IP addresses is:

- A. Domain Name Service (DNS).
- B. Internet Service Provider (ISP).
- C. Address Resolution Protocol (ARP).
- D. Windows Internet Name Service (WINS).

Correct Answer: D

Windows Internet Name Service (WINS) is Microsoft's implementation of NetBIOS Name Service (NBNS), a name server and service for NetBIOS computer names. Effectively, WINS is to NetBIOS names what DNS is to domain names -- a central mapping of host names to network addresses.

QUESTION 4

For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

Hot Area:

Answer Area

Yes No

21DA:D3:0:2F3B:2AA:FF:FE28:9C5A is a valid IPv6 unicast address.

FE80::2AA:FF:FE28:9C5A is a valid IPv6 address.

21DA::02AA::FF:FE28:9C5A is a valid IPv6 address.

Correct Answer:

Answer Area

Yes

No

21DA:D3:0:2F3B:2AA:FF:FE28:9C5A is a valid IPv6 unicast address.



FE80::2AA:FF:FE28:9C5A is a valid IPv6 address.



21DA::02AA::FF:FE28:9C5A is a valid IPv6 address.



QUESTION 5

Which utility would you use to determine if your Domain Name System (DNS) server is properly resolving fully qualified domain names (FQDNs) as IP addresses?

- A. netstat
- B. nslookup
- C. nbtstat
- D. ipconfig

Correct Answer: D

References: <https://docs.microsoft.com/en-us/windows-server/administration/windows-commands/ipconfig>

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