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QUESTION 1

Due to space constraints in an IDF, a network administrator can only a do a single switch to accommodate three data networks. The administrator needs a configuration that will allow each device to access its expected network without additional connections. The configuration must also allow each device to access the rest of the network. Which of the following should the administrator do to meet these requirements? (Select TWO).

A. Untag the three VLANs across the uplink

B. Tag an individual VLAN across the uplink

C. Untag an individual VLAN per device port

D. Tag an individual VLAN per device port

E. Tag the three VLANs across the uplink.

F. Tag the three VLANs per device port.

Correct Answer: AC

To achieve this, you should do two things:

Tag the three VLANs across the uplink port that connects to another switch or router. This will allow data packets from different VLANs to cross over into other networks. Untag an individual VLAN per device port that connects to an end

device. This will assign each device to its expected network without additional connections.

QUESTION 2

A network deployment engineer is deploying a new single-channel 10G optical connection. Which of the following optics should the engineer MOST likely use to satisfy this requirement?

A. QSFP

B. QSFP+

C. SFP

D. SFP+

Correct Answer: D

SFP+ is a type of optical transceiver that supports 10G single-channel transmission over fiber optic cables. SFP+ stands for small form-factor pluggable plus, and it is compatible with SFP slots on switches and routers.

QUESTION 3

An organization wants to implement a method of centrally managing logins to network services. Which of the following protocols should the organization use to allow for authentication, authorization and auditing?

A. MS-CHAP

B. RADIUS

C. LDAPS

D. RSTP

Correct Answer: B

RADIUS (Remote Authentication Dial-In User Service) is a protocol that should be used by the organization to allow for authentication, authorization, and auditing of network services. RADIUS is an AAA (Authentication, Authorization, and Accounting) protocol that manages network access by verifying user credentials, granting access permissions, and logging user activities. RADIUS uses a client-server model where a RADIUS client (such as a router, switch, or VPN server) sends user information to a RADIUS server (such as an authentication server) for verification and authorization. The RADIUS server can also send accounting information to another server for billing or reporting purposes.

References: https://www.cisco.com/c/en/us/support/docs/security-vpn/remote-authentication-dial-user-service-radius/13838-10.html

QUESTION 4

A network administrator is designing a new datacenter in a different region that will need to communicate to the old datacenter with a secure connection. Which of the following access methods would provide the BEST security for this new datacenter?

A. Virtual network computing

B. Secure So

C. In-band connection

D. Site-to-site VPN

Correct Answer: D

SSH serves a similar function as a Site-to-site VPN, however SSH only operates at the Application Level. The VPN encrypts and protects all the data.

QUESTION 5

Which of the following fiber connector types is the most likely to be used on a network interface card?

A. LC

B. SC

C. ST

D. MPO

Correct Answer: A

The LC (Lucent Connector) is the most likely fiber connector type to be used on a network interface card (NIC). LC connectors are small, have a high density, and are commonly used in data center and enterprise environments. They are well-suited for connections on NICs and switches due to their compact size and ease of use.

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