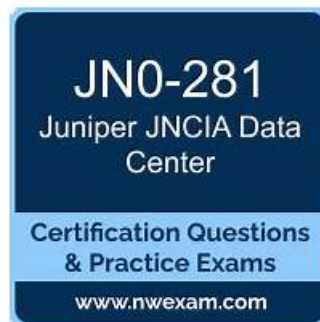


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Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q123-Q128):

NEW QUESTION # 123

Which two statements are correct about VLAN tags? (Choose two.)

- A. VLAN tags are required on access ports.
- B. VLAN tags require multiple forwarding tables.
- C. VLAN tags can be inserted or removed by trunk interfaces.
- D. VLAN tags carry a VLAN ID and priority.

Answer: C,D

Explanation:

VLAN tags are used in Ethernet frames to identify and differentiate traffic between multiple VLANs. They are especially important for devices like switches that handle multiple VLANs on the same physical link.

Step-by-Step Breakdown:

VLAN Tag Contents:

VLAN ID: The tag contains a 12-bit VLAN ID field that identifies the VLAN to which the frame belongs.

Priority: The tag also includes a 3-bit priority field (also known as 802.1p priority) used for QoS (Quality of Service) to prioritize traffic.

Trunk Ports and VLAN Tagging:

Trunk Ports are used to carry traffic for multiple VLANs across a single link. These interfaces insert (tag) VLAN identifiers into frames when they leave the switch and remove (untag) them when frames enter the switch.

Access Ports:

VLAN tags are typically not used on access ports (ports that connect to end devices) since those ports are configured to be part of a single VLAN, and the traffic doesn't need VLAN tags.

Juniper Reference:

VLAN Tagging: Juniper switches support VLAN tagging and ensure that frames are tagged or untagged as they traverse trunk or access ports, respectively.

NEW QUESTION # 124

What are three correct layer names used in legacy hierarchical network design? (Choose three.)

- A. Aggregation layer
- B. Core layer
- C. Access layer
- D. Modular layer
- E. Function layer

Answer: A,B,C

Explanation:

In legacy hierarchical network design, three key layers are used to create a scalable and structured network:

Step-by-Step Breakdown:

Access Layer:

The access layer is where end devices, such as computers and IP phones, connect to the network. It typically involves switches that provide connectivity for devices at the edge of the network.

Aggregation Layer (Distribution Layer):
The aggregation layer (also called the distribution layer) aggregates traffic from multiple access layer devices and applies policies such as filtering and QoS. It also provides redundancy and load balancing.

Core Layer:

The core layer provides high-speed connectivity between aggregation layer devices and facilitates traffic within the data center or between different network segments. Juniper Reference: Legacy Hierarchical Design: Juniper networks often follow the traditional three-layer design (Access, Aggregation, and Core) to ensure scalability and high performance.

NEW QUESTION # 125

Which two statements about IBGP are correct? (Choose two.)

- A. IBGP uses AS path for loop prevention.
- B. IBGP uses full mesh for loop prevention.
- C. By default, IBGP has a TTL of 1.
- D. By default, IBGP has a TTL of 255.

Answer: B,D

Explanation:

IBGP (Internal Border Gateway Protocol) is used to exchange routing information between routers within the same AS (Autonomous System).

Step-by-Step Breakdown:

TTL of 255:

By default, IBGP sessions are established with a TTL (Time to Live) value of 255. This allows IBGP neighbors to communicate over multiple hops within the AS without requiring any additional configuration.

Full Mesh Requirement:

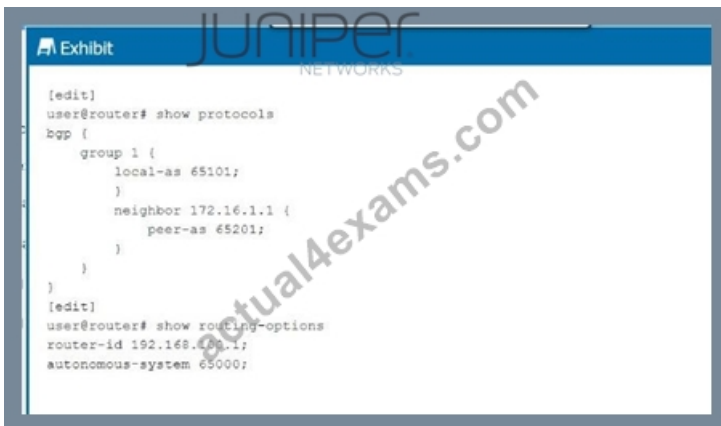
IBGP requires a logical full mesh between all IBGP routers to ensure that routing information is fully distributed within the AS. Since IBGP does not propagate routes learned from one IBGP peer to another by default, a full mesh topology is needed unless route reflectors or BGP confederations are used.

Juniper Reference:

IBGP Full Mesh: Juniper recommends using route reflectors in large networks to simplify IBGP full-mesh requirements.

NEW QUESTION # 126

Exhibit:



Referring to the exhibit, which statement is correct?

- A. BGP group 1 requires a type external parameter.
- **B. The configuration will commit successfully and BGP group 1 will operate as EBGP.**
- C. The configuration will commit successfully and BGP group 1 will operate as IBGP.
- D. BGP group 1 requires a type internal parameter.

Answer: B

Explanation:

In the exhibit, BGP is configured with local AS 65101 and a neighbor at 172.16.1.1 in peer AS 65201. This setup involves two different Autonomous Systems (AS), indicating an External BGP (EBGP) configuration.

Step-by-Step Breakdown:

EBGP vs. IBGP:

EBGP is used between routers in different ASes. In this case, the local AS is 65101 and the peer AS is 65201, meaning the BGP session is EBGP.

IBGP is used between routers within the same AS, which is not applicable here as the AS numbers are different.

BGP Group Configuration:

The configuration does not require a type external parameter because Junos OS automatically recognizes the session as EBGP when the local and peer AS numbers are different.

The BGP session will operate as EBGP, and the configuration will commit successfully.

Juniper Reference:

BGP Configuration: In Juniper, EBGP is automatically recognized when the local and peer AS numbers differ, without needing to specify type external.

NEW QUESTION # 127

What are two reasons why you would deploy an IP fabric instead of a traditional Layer 2 network in a data center? (Choose two.)

- **A. Layer 3 networks support load balancing.**
- B. Layer 2 networks only support a single broadcast domain.
- **C. Layer 2 networks are susceptible to loops.**
- D. IP fabrics are better suited to smaller networks where scale is less important.

Answer: A,C

Explanation:

IP fabrics are Layer 3-centric network designs often used in data centers due to their scalability, efficient routing, and loop-free architecture.

Step-by-Step Breakdown:

Layer 3 Load Balancing:

IP fabrics use Equal-Cost Multipath (ECMP) to distribute traffic across multiple paths, providing effective load balancing and improving bandwidth utilization. This capability is absent in traditional Layer 2 networks, which do not support ECMP for routing decisions.

Layer 2 Loops:

Layer 2 networks are prone to loops because of the lack of TTL (Time-to-Live) mechanisms. Spanning Tree Protocol (STP) is required to prevent loops, but it can introduce inefficiencies by blocking links. In contrast, IP fabrics based on Layer 3 protocols are loop-free and do not need STP. Juniper Reference: IP Fabric: Juniper's IP fabric solutions offer efficient Layer 3 routing with built-in load balancing and loop prevention, making them ideal for modern data center architectures.

NEW QUESTION # 128

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