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Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	High Availability: This section of the exam measures the skills of a Data Center Reliability Engineer and covers strategies to ensure continuous network availability. It includes features like Link Aggregation Groups (LAG), Graceful Restart (GR), Bidirectional Forwarding Detection (BFD), and Virtual Chassis. It also provides a basic understanding of how to configure, monitor, and troubleshoot each of these high-availability components to maintain resilient network performance.
Topic 2	Data Center Architectures: This section of the exam measures the skills of a Data Center Architect and covers foundational knowledge about various data center designs. It includes traditional multitier architectures as well as more modern IP fabric architectures using spine-leaf topologies. The section also touches on Layer 2 and Layer 3 strategies for forwarding traffic, the differences between overlay and underlay networks, and introduces Ethernet VPN–Virtual Extensible LAN (EVPN-VXLAN), explaining its basic purpose and role in data center environments.
Topic 3	- Data Center Routing Protocols BGP - OSPF: This section of the exam measures skills of a Network Operations Specialist and covers the operation and key concepts of the OSPF protocol. It explains elements such as the link-state database, OSPF packet types, and router IDs, including how adjacencies and designated routers work within areas. The section then transitions to BGP, outlining its basic operations, message types, attributes, and the path selection process. It also discusses both IBGP and EBGP roles. Lastly, the section reviews how to configure, monitor, and troubleshoot OSPF and BGP using routing policies and various tools.
Topic 4	Layer 2 Switching and VLANs: This section of the exam measures the skills of a Network Support Engineer and covers the essential concepts of Layer 2 switching operations within Junos OS. It includes an overview of Ethernet switching and bridging, providing an understanding of how Layer 2 networks function. The section also introduces VLAN concepts, focusing on port modes, VLAN tagging methods, and the purpose of Integrated Routing and Bridging (IRB). It further explores the practical side by addressing how to configure, monitor, and troubleshoot both Layer 2 switching and VLANs.

Topic 5	• Protocol-Independent Routing: This section of the exam measures the skills of a Routing Engineer and covers routing features that function independently of any specific protocol. It includes static, aggregate, and generated routes, along with the concept of martian addresses. Routing instances and Routing Information Base (RIB) groups are introduced, as well as techniques like load balancing and filter-based forwarding. Configuration, monitoring, and troubleshooting aspects of these routing components are also covered in this section.
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Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q87-Q92):

NEW QUESTION # 87

When a MAC limiting violation occurs, the switch performs which two actions by default? (Choose two.)

- A. No logging takes place.
- B. The port is disabled.
- C. It causes Layer 2 loops.
- D. It drops the packet.

Answer: B,D

Explanation:

When a MAC limiting violation occurs on a Juniper switch, the switch will perform the following actions by default:

Step-by-Step Breakdown:

Port Disabled:

When the number of MAC addresses on an interface exceeds the configured limit, the port is automatically disabled to prevent further violations. This is a protective mechanism to prevent MAC address flooding.

Packet Dropped:

Additionally, packets from the violating MAC address are dropped to prevent any further communication from that address. This ensures that only valid MAC addresses are allowed to communicate through the interface.

Example Configuration:

set ethernet-switching-options secure-access-port interface <interface-name> mac-limit 5 If more than five MAC addresses are learned, the port is disabled, and excess packets are dropped.

Juniper Reference:

MAC Limiting: When the switch detects a MAC limiting violation, it disables the port and drops further packets from the violating MAC addresses to maintain network security.

NEW QUESTION # 88

Bidirectional Forwarding Detection (BFD) is primarily used for:

- A. Quick failure detection in forwarding paths
- B. Aggregating multiple links
- C. Encrypting data packets
- D. Detecting slow links in the network

Answer: A

NEW QUESTION # 89

You are creating an IP fabric underlay and want to use OSPF as your routing protocol.
In this scenario, which statement is correct?

- A. All spine devices must use the same router ID.
- B. All leaf devices must be configured in separate OSPF areas.
- **C. Interface speeds should be the same throughout the fabric to ensure that all links are utilized.**
- D. All leaf and spine devices must be the same model to ensure the proper load-balancing behavior.

Answer: C

Explanation:

When creating an IP fabric underlay using OSPF as the routing protocol, consistent interface speeds are important to ensure optimal traffic distribution and utilization of all links.

Step-by-Step Breakdown:

OSPF and Interface Speeds:

OSPF calculates the cost of a link based on its bandwidth. The default cost calculation in OSPF is:

$$\text{Cost} = \frac{\text{Reference Bandwidth}}{\text{Interface Bandwidth}}$$

If interface speeds vary significantly, OSPF may choose paths with lower cost (higher bandwidth), resulting in some links being underutilized.

Equal Utilization:

To ensure that all links are equally utilized in an IP fabric, it is recommended to maintain uniform interface speeds across the fabric. This ensures balanced load sharing across all available paths.

Juniper Reference:

IP Fabric with OSPF: Juniper recommends consistent interface speeds to maintain even traffic distribution and optimal link utilization in IP fabric underlay designs.

NEW QUESTION # 90

A generated route is configured under which hierarchy?

- **A. [edit routing-options]**
- B. [edit policy-options]
- C. [edit routing-instance]
- D. [edit protocols]

Answer: A

Explanation:

A generated route in Junos OS is configured under the [edit routing-options] hierarchy.

Step-by-Step Breakdown:

Generated Routes:

A generated route is created based on the presence of more specific routes in the routing table. It acts as a summary route and is generated when any of its contributing routes are active. This is commonly used to create aggregate routes in OSPF, BGP, or other protocols.

Configuration Hierarchy:

The configuration for generated routes is placed under [edit routing-options], where other static and routing policies are also defined.

Command Example:

```
set routing-options generate route 10.10.0.0/16
```

Juniper Reference:

Routing Options: Juniper routers use the routing-options hierarchy to configure generated routes and other static routing behaviors.

NEW QUESTION # 91

You have configured a load balancing policy.

Which statement is correct about applying the policy?

- A. The policy is applied as an import policy under the routing protocol's hierarchy.
- **B. The policy is applied as an export policy under routing-options forwarding table.**

- C. The policy is applied as an export policy under the routing protocol's hierarchy.
- D. The policy is applied as an import policy under routing-options forwarding table.

Answer: B

NEW QUESTION # 92

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