Pass Guaranteed 2026 Useful JN0-281: Data Center, Associate (JNCIA-DC) Relevant Questions

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Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• Layer 2 Switching and VLANs: This section of the exam measuresthe 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 3	• 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 4	• 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 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.

JN0-281 Passleader Review & JN0-281 Valid Exam Sample

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Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q133-Q138):

NEW QUESTION # 133
What is the main purpose of Bidirectional Forwarding Detection (BFD)?

- A. to determine packet round-trip latency
- B. to determine if the forwarding routes are correct
- C. to detect the forwarding protocol
- D. to detect network path failures

Answer: D

Explanation:
Bidirectional Forwarding Detection (BFD) is a network protocol used to detect failures in the network path between two devices quickly.
Step-by-Step Breakdown:
Path Failure Detection:
BFD provides a low-overhead mechanism for detecting failures in forwarding paths across Layer 3 networks. It is much faster than traditional routing protocol timers and can detect failures within milliseconds.
BFD in Routing:
BFD can be integrated with routing protocols like OSPF, BGP, or IS-IS to trigger a faster convergence when a network path goes down.
Juniper
Reference: BFD Configuration: Juniper devices use BFD to monitor network paths and ensure fast failure detection, enhancing network resilience.

NEW QUESTION # 134
Which two statements are true about how switches handle Layer 2 traffic? (Choose two.)

- A. The MAC address is learned based on the source MAC address.

- B. Traffic is forwarded based on the destination MAC address.
- C. Traffic is forwarded based on the source MAC address.
- D. The MAC address is learned based on the destination MAC address.

Answer: A,B

Explanation:
In Layer 2 switching, switches learn MAC addresses based on the source MAC address of incoming frames and forward frames based on the destination MAC address.
Step-by-Step Breakdown:
MAC Learning:
When a switch receives a frame, it records the source MAC address and the port on which it arrived. This allows the switch to know where to send traffic destined for that MAC address.
Forwarding Based on Destination:
The switch then looks at the destination MAC address and forwards the frame out of the port associated with that MAC address. If the MAC is unknown, the switch floods the frame to all ports.
Juniper Reference:
Layer 2 Switching: Juniper switches use source MAC addresses to build MAC tables and forward traffic based on the destination MAC address.

NEW QUESTION # 135
In the context of protocol-independent routing, what is the main difference between static and generated routes?

- A. Static routes are used for load balancing, while generated routes are not.
- B. Static routes require manual configuration, while generated routes are created dynamically.
- C. Generated routes are manually configured, while static routes are automatically created.
- D. Generated routes support summarization, while static routes do not.

Answer: B

NEW QUESTION # 136
Within your router, you want to verify that you are learning routes from a remote BGP peer at IP address 10.10.100.1. Which command would satisfy the requirement?

- A. show route receive-protocol bgp 10.10.100.1
- B. show route protocol bgp source-gateway 10.10.100.1
- C. show route advertise-protocol bgp 10.10.100.1
- D. show route protocol bgp table inet.0 10.10.100.1

Answer: A

Explanation:
To verify that your router is learning routes from a remote BGP peer at a specific IP address (e.g., 10.10.100.1), the correct command to use is show route receive-protocol bgp.
Step-by-Step Breakdown:
BGP Route Learning:
The show route receive-protocol bgp command displays the routes that have been received from a specified BGP peer. This helps in confirming that the remote peer is sending routes correctly and that your router is receiving them.
Command Example:
show route receive-protocol bgp 10.10.100.1
This will show all routes that have been received from the BGP peer with IP address 10.10.100.1.
Juniper Reference:
BGP Route Verification: Use this command to troubleshoot and verify that routes from a specific BGP peer are being received.

NEW QUESTION # 137
Which command on a router is used to view the current routing table?

- A. show routing-table

- B. show route
- C. display ip routing-table
- D. check route information

Answer: B

NEW QUESTION # 138
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