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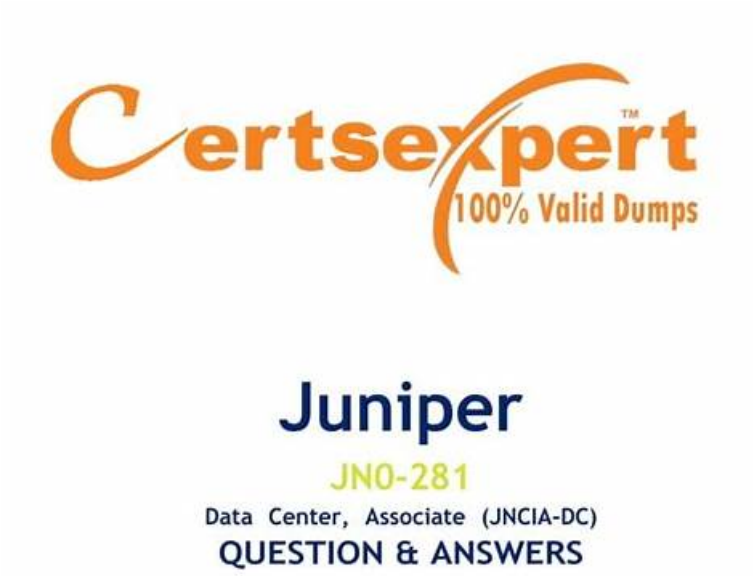

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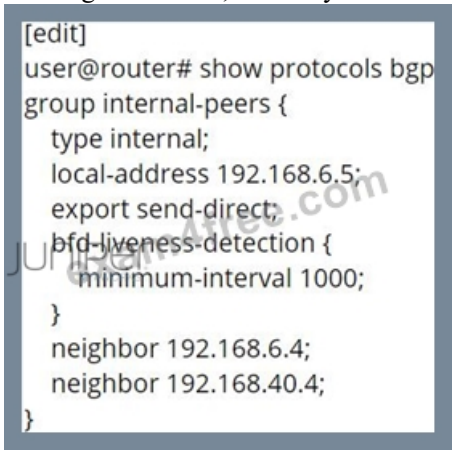
Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
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	• 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 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	• 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.

Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q159-Q164):

NEW QUESTION # 159
Referring to the exhibit, how many milliseconds will pass before the BGP neighbor is considered dead?



- A. 1000ms
- B. 2000ms
- C. 3000ms
- D. 9000ms

Answer: C

NEW QUESTION # 160
Which statement is correct about per-flow load balancing?

- A. Packets associated with the same flow are sent through different egress ports.
- B. The packets are guaranteed to arrive at their destination in the same order in which they were sent.
- C. Packets associated with the same flow are sent through the same egress port.
- D. The packets are guaranteed to arrive at their destination in a different order in which they were sent.

Answer: C

Explanation:
Per-flow load balancing ensures that packets within the same flow are always forwarded over the same path, ensuring that packet order is preserved.
Step-by-Step Breakdown:
Flow Definition:
A flow is typically defined by a combination of packet attributes like source/destination IP, source/destination port, and protocol type. Packets that belong to the same flow are routed over the same path to avoid reordering.
Per-Flow Behavior:
In per-flow load balancing, the hashing algorithm ensures that all packets in a particular flow use the same egress port, maintaining order across the network. Juniper Reference: Load Balancing in Juniper: This method ensures that flows are balanced across multiple paths while preventing packet reordering within a single flow.

NEW QUESTION # 161
What are two consequences of having all network devices in a single collision domain? (Choose two.)

- A. The amount of network resource consumption does not change.
- B. The amount of network resource consumption is increased.
- C. The chance of packet collision is increased.
- D. The chance of packet collision is decreased.

Answer: B,C

Explanation:
A collision domain is a network segment where data packets can "collide" with one another when being sent on the same network medium.
Step-by-Step Breakdown:
Increased Collision Probability:
If all devices are in a single collision domain, the likelihood of packet collisions increases as more devices attempt to send packets simultaneously, leading to network inefficiencies.
Increased Resource Consumption:
More collisions result in increased network resource consumption as devices need to retransmit packets, causing higher utilization of bandwidth and slowing down network performance.
Juniper Reference:
Collision Domains: Proper network segmentation using switches reduces collision domains, thereby improving network performance and reducing packet collisions.

NEW QUESTION # 162
When configuring BGP, which command is commonly used to define a BGP neighbor?

- A. set bgp peer
- B. add bgp connection

- C. neighbor <IP_ADDRESS> remote-as <AS_NUMBER>
- D. bgp set neighbor

Answer: C

NEW QUESTION # 163
With regards to graceful restart, which two statements are true? (Choose two.)

- A. A supported routing protocol, such as BGP, must be operational for graceful restart to work.
- B. The network topology must be stable for graceful restart to work.
- C. Dual routing engines are required for graceful restart to work.
- D. NSR must be enabled for graceful restart to work.

Answer: A,B

NEW QUESTION # 164
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