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Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 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	• 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 5	• 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.

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Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q59-Q64):

NEW QUESTION # 59
Which three technologies improve high availability and convergence in a data center network? (Choose three.)

- A. graceful restart (GR)
- B. Bidirectional Forwarding Detection (BFD)
- C. Failover Group (FG)
- D. link loss adjacency
- E. link aggregation group (LAG)

Answer: A,B,E

Explanation:
High availability and fast convergence are critical in data center networks to minimize downtime and maintain optimal performance.
The following technologies contribute to achieving these goals:
Graceful Restart (GR):
GR allows routers to maintain forwarding state during control plane restarts, ensuring continuous packet forwarding while minimizing network disruptions.
Bidirectional Forwarding Detection (BFD):
BFD provides fast detection of path failures, allowing routing protocols to converge quickly by detecting link failures much faster than traditional timers.
Link Aggregation Group (LAG):
LAG increases both redundancy and bandwidth by combining multiple physical links into one logical link, providing load balancing and fault tolerance.
Juniper Reference:
High Availability Techniques: These technologies are fundamental in ensuring rapid recovery and failover within Juniper-based data center environments.

NEW QUESTION # 60
Exhibit:
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Referring to the exhibit, which next hop will be preferred in the routing table?

- A. Next hop IP address 172.25.20.200 will be preferred.
- B. Next hop IP address 172.25.20.254 will be preferred.
- C. Both next hops will be preferred.
- D. Neither next hop will be preferred.

Answer: A

Explanation:
In the exhibit, we see a static route configuration with two possible next hops for the default route (0.0.0.0/0):
next-hop 172.25.20.254 with the default preference of 7.
qualified-next-hop 172.25.20.200 with a preference of 6.
Step-by-Step Breakdown:
Preference Value:
In Junos OS, the preference value is used to determine which route should be preferred in the routing table. The lower the preference value, the higher the priority for the route.
Comparison:
In this case:
The next hop 172.25.20.254 has a preference of 7.
The qualified-next-hop 172.25.20.200 has a preference of 6.
Preferred Next Hop:
Since 172.25.20.200 has a lower preference (6) compared to 172.25.20.254 (7), it will be the preferred next hop in the routing table, assuming both next hops are reachable.
Juniper Reference:
Qualified Next Hop: In Junos, static routes with multiple next-hop options are selected based on the preference value, with the lower value being preferred.

NEW QUESTION # 61
Which two statements are correct about EVPN-VXLAN overlay networking? (Choose two.)

- A. An encapsulation of the original packet is required to transport the packet across the network.
- B. It is the only option to provide reachability between servers that reside in the same network segment in a data center.
- C. BGP provides the control plane within the overlay network.
- D. OSPF provides the control plane within the overlay network.

Answer: A,C

Explanation:
EVPN-VXLAN is an overlay technology used in data center networks to extend Layer 2 services over a Layer 3 network.
Step-by-Step Breakdown:
BGP Control Plane:
BGP (Border Gateway Protocol) is used as the control plane for EVPN-VXLAN. BGP advertises MAC addresses and IP address reachability information across the VXLAN network, enabling efficient multi-tenant Layer 2 connectivity over a Layer 3 infrastructure.
Encapsulation:
VXLAN (Virtual Extensible LAN) encapsulates Layer 2 frames into Layer 3 packets. This encapsulation allows Layer 2 traffic to be transported across a Layer 3 network, effectively creating a tunnel for Ethernet frames.
Juniper Reference:
EVPN-VXLAN Configuration: Juniper supports EVPN-VXLAN with BGP as the control plane, allowing scalable Layer 2 connectivity over a routed infrastructure in modern data centers.

NEW QUESTION # 62
Referring to the exhibit, which statement is true?

- A. BFD will bring down the BGP session if no BFD packets are received for 2700 seconds.
- B. BFD will bring down the BGP session if no BFD packets are received for 2700 milliseconds.
- C. BFD packets are being sent every second.
- D. BFD only records a syslog message if three BFD packets are missed.

Answer: B

NEW QUESTION # 63

Which three technologies improve high availability and convergence in a data center network? (Choose three.)

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- B. Bidirectional Forwarding Detection (BFD)
- C. Failover Group (FG)
- D. link loss adjacency
- E. link aggregation group (LAG)

Answer: A,B,E

Explanation:
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Juniper
Reference: High Availability Techniques: These technologies are fundamental in ensuring rapid recovery and failover within Juniper-based data center environments.

NEW QUESTION # 64
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