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Exam : JN0-281

Title : Data Center, Associate (JNCIA-DC)

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1 / 8

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Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • 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 2	<ul style="list-style-type: none"> • 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 3	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 multilayer 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 5	<ul style="list-style-type: none"> • 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.

Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q107-Q112):

NEW QUESTION # 107

Which signaling protocol is used for EVPN?

- A. OSPF
- B. IS-IS
- C. BGP
- D. PIM

Answer: C

Explanation:

EVPN (Ethernet Virtual Private Network) is a standard protocol used for building Layer 2 and Layer 3 VPNs over an IP or MPLS network. The signaling protocol used for EVPN is BGP (Border Gateway Protocol).

Step-by-Step Breakdown:

BGP as the EVPN Signaling Protocol:

EVPN uses BGP to exchange MAC address reachability information between routers (PE devices). This enables devices to learn which MAC addresses are reachable through which PE devices, facilitating Layer 2 forwarding across an IP or MPLS core.

BGP Extensions for EVPN:

BGP is extended with new address families (e.g., EVPN NLRI) to carry both MAC and IP address information, allowing for scalable and efficient multi-tenant network solutions. Juniper Reference: Junos EVPN Configuration: Juniper uses BGP as the control plane for EVPN to exchange MAC and IP route information between different data center devices.

NEW QUESTION # 108

Generated routes in a network are mainly used to:

- A. Reduce the overall size of the routing table.
- B. **Automatically create a route when a specified condition is met.**
- C. Manually configure specific network routes.
- D. Summarize external routes into the network.

Answer: B

NEW QUESTION # 109

Which Junos OS routing table stores IPv6 addresses?

- A. inet.0
- B. **inet6.0**
- C. inet.6
- D. inet0.6

Answer: B

Explanation:

In Junos OS, routing information is stored in different routing tables depending on the protocol and address family. For IPv6 addresses, the routing table used is inet6.0.

Step-by-Step:

Routing Tables in Junos:

inet.0: This is the primary routing table for IPv4 unicast routes.

inet6.0: This is the primary routing table for IPv6 unicast routes.

inet.3: This routing table is used for MPLS-related routing.

Other routing tables, like inet.1, inet.2, are used for multicast and other specific purposes.

inet6.0 Routing Table:

When IPv6 is enabled on a Juniper router, all the IPv6 routes are stored in the inet6.0 table. This includes both direct routes (connected networks) and learned routes (from dynamic routing protocols like OSPFv3, BGP, etc.).

Verification:

To view IPv6 routes, the command `show route table inet6.0` is used. This will display the contents of the IPv6 routing table, showing the network prefixes, next-hop addresses, and protocol information for each route.

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Reference: Junos Command: Use `show route table inet6.0` to check IPv6 routing entries.

IPv6 Routing: Ensure that the IPv6 protocol is enabled on interfaces and that routing protocols like OSPFv3 or BGP are properly configured for IPv6 traffic handling.

NEW QUESTION # 110

Which route is preferred by the Junos OS software routing tables?

- A. Static
- B. Aggregate
- C. **Direct**
- D. BGP

Answer: C

Explanation:

In Junos OS, direct routes are the most preferred routes in the routing table, having the highest priority.

Step-by-Step Breakdown:

Direct Routes:

Direct routes represent networks that are directly connected to the router's interfaces. Since these routes are directly accessible, they are assigned the highest priority and always take precedence over other types of routes.

Preference Values:

Direct routes have a preference of 0, which is the most preferred in Junos. Static routes, OSPF routes, and BGP routes have higher preference values and will only be used if there are no direct routes to the destination.

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Reference: Direct Route Preference: In Junos, direct routes are always preferred over other routes, ensuring that the router forwards traffic through locally connected networks.

NEW QUESTION # 111

Which operation mode command will display the mapping between the VLAN ID and ports on a switch?

- A. show interfaces terse
- B. show ethernet-switching table
- C. **show vlans**
- D. show route

Answer: C

Explanation:

To display the mapping between VLAN IDs and ports on a Juniper switch, the show vlans command is used.

Step-by-Step Breakdown:

VLAN Information:

The show vlans command displays detailed information about VLAN configurations, including the VLAN ID, associated interfaces (ports), and VLAN membership.

Command Example:

show vlans

This command will provide an output listing each VLAN, its ID, and the interfaces associated with the VLAN, enabling network engineers to quickly verify VLAN to port mappings.

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Reference: VLAN Verification: Use the show vlans command to verify which VLANs are configured on the switch and the ports that are members of those VLANs.

NEW QUESTION # 112

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