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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"><li>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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• Data Center Routing Protocols BGP</li> <li>• OSPF: This section of the exam measures the 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.</li> </ul>

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## Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q195-Q200):

### NEW QUESTION # 195

Which Junos OS routing table stores IPv6 addresses?

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

**Answer: C**

**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 # 196

Which statement is correct about member interfaces when creating a LAG?

- A. Member interfaces must all be allocated on the same chassis when using a Virtual Chassis.
- B. The interface's duplex settings and link speed must be the same on all member interfaces.
- C. Member interfaces must all be allocated on the same PFE.
- D. The interface's MTU settings must match on all member interfaces.

### Answer: B

#### Explanation:

When creating a LAG (Link Aggregation Group) in Junos, the duplex settings and link speed must be the same across all member interfaces.

#### Step-by-Step Breakdown:

##### LAG Overview:

A LAG combines multiple physical interfaces into a single logical interface to increase bandwidth and provide redundancy. All member links must act as a single cohesive unit.

##### Interface Requirements:

Duplex: All member interfaces must operate in the same duplex mode (either full-duplex or half-duplex). Mismatched duplex settings can cause performance issues, packet drops, or interface errors. Link Speed: All interfaces in the LAG must have the same link speed (e.g., all interfaces must be 1 Gbps or 10 Gbps). Mismatched speeds would prevent the interfaces from functioning correctly within the LAG.

Configuration and Validation: Ensure that all member interfaces have identical settings before adding them to the LAG. These settings can be checked using the `show interfaces` command, and the LAG can be configured using:

`set interfaces ae0 aggregated-ether-options link-speed 10g` `set interfaces ge-0/0/1 ether-options 802.3ad ae0`

Reference: LAG Configuration: Duplex and link speed must be consistent across member interfaces to ensure proper LAG operation in Juniper devices.

## NEW QUESTION # 197

How does VLAN tagging benefit network segmentation?

- A. By ensuring the same IP address range can be used in different VLANs.
- B. By providing a backup path for data in case of link failure.
- C. By encrypting data traffic between VLANs.
- D. By enabling the identification and separation of traffic belonging to different VLANs.

### Answer: D

## NEW QUESTION # 198

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

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

**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 # 199**

In Ethernet switching, what is the primary function of a storm control policy?

- A. To segregate broadcast domains.
- B. To restrict the rate of certain types of traffic.
- C. To prevent loops in the network.
- D. To filter MAC addresses.

**Answer: B**

**NEW QUESTION # 200**

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