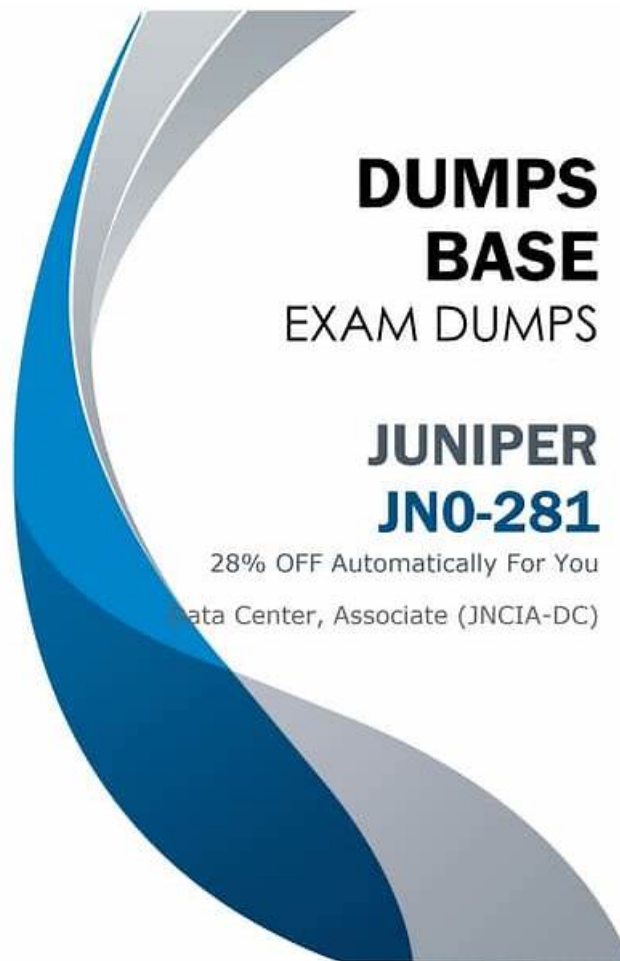


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## Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Layer 2 Switching and VLANs:</b> 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 3	<ul style="list-style-type: none"> <li>• <b>High Availability:</b> 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 4	<ul style="list-style-type: none"> <li>• <b>Data Center Routing Protocols BGP</b></li> <li>• <b>OSPF:</b> 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Protocol-Independent Routing:</b> 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>

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### Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q48-Q53):

#### NEW QUESTION # 48

What are two device roles in a five-member Virtual Chassis? (Choose two.)

- A. Line card
- B. PFE
- C. Routing-engine
- D. Control-board

**Answer: A,C**

Explanation:

In a Virtual Chassis (VC) configuration, multiple Juniper switches are interconnected to form a single logical device. Each member switch in the Virtual Chassis plays a specific role.

Step-by-Step Breakdown:

Line Card Role:

Member switches acting as line cards provide additional ports for traffic forwarding but do not perform control or routing functions. These switches depend on the routing engine to handle control-plane tasks.

Routing Engine Role:

A switch in the routing-engine role is responsible for control-plane operations such as routing protocol management and control of

the Virtual Chassis.

Virtual Chassis Roles:

Master Routing Engine: Handles control-plane functions and manages the entire Virtual Chassis.

Backup Routing Engine: Takes over if the master fails.

Line Card: Provides additional ports and handles data-plane operations.

Juniper Reference:

Virtual Chassis: In a five-member Virtual Chassis, multiple switches act as line cards, while one or more switches are designated as the routing engines (master and backup).

#### NEW QUESTION # 49

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. The MAC address is learned based on the destination MAC address.
- D. Traffic is forwarded based on the source 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 # 50

Exhibit:

Referring to the exhibit, which behavior does this configuration enable on the ge-0/0/1.0 interface?

- A. This configuration enables the device to shut down the interface when a particular MAC address persistently sends broadcast traffic.
- B. This configuration enables the interface to learn and remember MAC addresses, until the device is rebooted.
- C. This configuration enables the device to place a MAC address that persistently causes network errors into a special protected VLAN.
- D. This configuration enables a MAC address learned on the interface to be persistently retained in the Ethernet-switching table, even after a reboot.

**Answer: D**

Explanation:

The configuration in the exhibit shows the persistent-learning feature enabled on interface ge-0/0/1.0.

Step-by-Step Breakdown:

Persistent Learning:

Persistent-learning ensures that the MAC addresses learned on the interface are retained in the Ethernet-switching table, even after a device reboot. This prevents the need to re-learn MAC addresses after the device restarts, improving stability and reducing downtime.

Use Case:

This feature is particularly useful in environments where the re-learning of MAC addresses could cause temporary disruptions or delays in communication, such as in critical Layer 2 network segments.

Command Example:

```
set switch-options interface ge-0/0/1.0 persistent-learning
```

Juniper Reference:

Persistent MAC Learning: In Junos, enabling persistent-learning ensures that learned MAC addresses are not lost during reboots, contributing to smoother network operations in environments where stability is crucial.

#### NEW QUESTION # 51

What is the primary purpose of using static routes in a network?

- A. To provide a manually configured routing entry
- B. To aggregate multiple routes into one
- C. To generate routing entries dynamically
- D. To automatically adjust routes based on network traffic

Answer: A

#### NEW QUESTION # 52

Load balancing in routing is used to:

- A. Encrypt data packets.
- B. Compress data to improve transmission speed.
- C. Automatically update routing tables.
- D. Distribute traffic evenly across multiple paths.

Answer: D

#### NEW QUESTION # 53

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