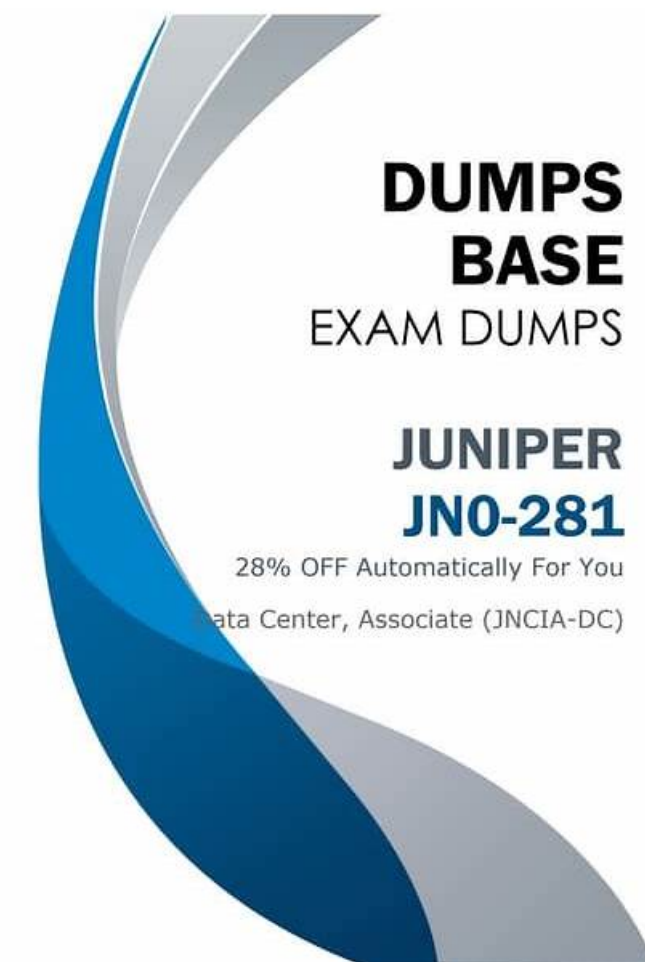


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The JN0-281 quiz guide through research and analysis of the annual questions, found that there are a lot of hidden rules are worth exploring, plus we have a powerful team of experts, so the rule can be summed up and use. The JN0-281 prepare torrent can be based on the analysis of the annual questions, it is concluded that a series of important conclusions related to the qualification examination, combining with the relevant knowledge of recent years. JN0-281 test material will improve the ability to accurately forecast the topic and proposition trend this year to help you pass the JN0-281 exam.

## Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none"> <li>• Data Center Routing Protocols BGP</li> <li>• 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.</li> </ul>
Topic 3	<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 4	<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 5	<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>

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## Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q190-Q195):

### NEW QUESTION # 190

Which signaling protocol is used for EVPN?

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

**Answer: D**

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 # 191

Which statement is correct about a three-stage IP fabric underlay?

- A. Every ingress interface into the fabric is only two hops away from the egress interface.
- B. Every server that connects to a three-stage IP fabric must be multihomed.
- C. Every spine device can communicate directly with other spine devices.
- D. Every leaf device can communicate directly with other leaf devices.

**Answer: A**

Explanation:

In a three-stage IP fabric (also known as a Clos fabric), traffic between any two points (ingress to egress) in the fabric is only two hops away.

Step-by-Step Breakdown:

Three-Stage IP Fabric:

Leaf Layer: Leaf switches connect directly to servers and edge devices.

Spine Layer: Spine switches provide connectivity between leaf switches but do not connect to each other directly.

Two-Hop Communication:

In this architecture, every leaf switch is connected to every spine switch. Therefore, when a packet enters the fabric via an ingress leaf switch, it is forwarded to a spine switch, which then directs the packet to the correct egress leaf switch. This path always involves exactly two hops:

Ingress leaf → Spine → Egress leaf.

Benefits:

This consistent two-hop path ensures predictable latency and makes the network highly scalable while maintaining low complexity.

Juniper Reference:

IP Fabric Architecture: This two-hop property of Clos fabrics is a hallmark of spine-leaf designs, as supported by Juniper's QFX and EX switches in data centers.

### NEW QUESTION # 192

What are two reasons why you would deploy an IP fabric instead of a traditional Layer 2 network in a data center? (Choose two.)

- A. Layer 2 networks are susceptible to loops.
- B. Layer 3 networks support load balancing.
- C. IP fabrics are better suited to smaller networks where scale is less important.
- D. Layer 2 networks only support a single broadcast domain.

**Answer: A,B**

Explanation:

IP fabrics are Layer 3-centric network designs often used in data centers due to their scalability, efficient routing, and loop-free architecture.

Step-by-Step Breakdown:

Layer 3 Load Balancing:

IP fabrics use Equal-Cost Multipath (ECMP) to distribute traffic across multiple paths, providing effective load balancing and improving bandwidth utilization. This capability is absent in traditional Layer 2 networks, which do not support ECMP for routing decisions.

Layer 2 Loops:

Layer 2 networks are prone to loops because of the lack of TTL (Time-to-Live) mechanisms. Spanning Tree Protocol (STP) is required to prevent loops, but it can introduce inefficiencies by blocking links. In contrast, IP fabrics based on Layer 3 protocols are loop-free and do not need STP. Juniper Reference: IP Fabric: Juniper's IP fabric solutions offer efficient Layer 3 routing with built-in load balancing and loop prevention, making them ideal for modern data center architectures.

### NEW QUESTION # 193

How does a layer 2 switch populate its bridge table?

- A. It stores the source MAC address of frames traversing the network.
- B. It stores the destination MAC address of frames traversing the network.
- C. It stores both the source and destination MAC addresses of frames traversing the network.
- D. It stores the protocol number of frames traversing the network.

Answer: A

### NEW QUESTION # 194

In networking, what is a RIB group primarily used for?

- A. To dynamically generate routing entries
- B. To filter routes based on specific criteria
- C. To group multiple Routing Information Bases together for a common purpose
- D. To balance the load across multiple links

Answer: C

### NEW QUESTION # 195

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