

# Comprehensive and Up-to-Date Juniper JN0-281 Practice Exam Questions



**Juniper**

**JN0-281**

Data Center, Associate (JNCIA-DC)  
**QUESTION & ANSWERS**

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## Juniper JN0-281 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> <li>• <b>Data Center Architectures:</b> 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>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 3	<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>
Topic 4	<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 5	<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>

#### >> JN0-281 Relevant Answers <<

## Using JN0-281 Relevant Answers - No Worry About Data Center, Associate (JNCIA-DC)

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## Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q150-Q155):

### NEW QUESTION # 150

Which statement is correct about per-flow load balancing?

- **A. Packets associated with the same flow are sent through the same egress port.**
- B. The packets are guaranteed to arrive at their destination in the same order in which they were sent.
- C. The packets are guaranteed to arrive at their destination in a different order in which they were sent.
- D. Packets associated with the same flow are sent through different egress ports.

**Answer: A**

Explanation:

Per-flow load balancing ensures that packets within the same flow are always forwarded over the same path, ensuring that packet order is preserved.

Step-by-Step Breakdown:

Flow Definition:

A flow is typically defined by a combination of packet attributes like source/destination IP, source/destination port, and protocol type. Packets that belong to the same flow are routed over the same path to avoid reordering.

Per-Flow Behavior:

In per-flow load balancing, the hashing algorithm ensures that all packets in a particular flow use the same egress port, maintaining order across the network.

Juniper Reference:

Load Balancing in Juniper: This method ensures that flows are balanced across multiple paths while preventing packet reordering within a single flow.

#### NEW QUESTION # 151

Which statement is correct about per-flow load balancing?

- **A. Packets associated with the same flow are sent through the same egress port.**
- B. The packets are guaranteed to arrive at their destination in the same order in which they were sent.
- C. The packets are guaranteed to arrive at their destination in a different order in which they were sent.
- D. Packets associated with the same flow are sent through different egress ports.

**Answer: A**

Explanation:

Per-flow load balancing ensures that packets within the same flow are always forwarded over the same path, ensuring that packet order is preserved.

Step-by-Step Breakdown:

Flow Definition:

A flow is typically defined by a combination of packet attributes like source/destination IP, source/destination port, and protocol type. Packets that belong to the same flow are routed over the same path to avoid reordering.

Per-Flow Behavior:

In per-flow load balancing, the hashing algorithm ensures that all packets in a particular flow use the same egress port, maintaining order across the network. Juniper Reference: Load Balancing in Juniper: This method ensures that flows are balanced across multiple paths while preventing packet reordering within a single flow.

#### NEW QUESTION # 152

What are two characteristics of a typical EBGp underlay fabric? (Choose two.)

- A. Each device in an EBGp fabric will be configured to be part of the same private AS.
- B. An EBGp fabric relies on an IGP to advertise loopback IPs.
- **C. An EBGp fabric does not require an IGP to advertise loopback IPs.**
- **D. Each device in an EBGp fabric will be configured in its own unique private AS.**

**Answer: C,D**

#### NEW QUESTION # 153

VLANs help in reducing which of the following? (Choose two)

- A. Encryption requirements
- B. Routing complexity
- **C. Broadcast domains**
- **D. Collision domains**

**Answer: C,D**

### NEW QUESTION # 154

What is the definition of a trunk interface on a switch?

- A. An interface that carries multiple VLANs.
- B. An interface that carries excess traffic.
- C. An interface that carries high bandwidth.
- D. An interface that connects directly to powerful servers.

**Answer: A**

Explanation:

A trunk interface on a switch is used to carry traffic for multiple VLANs between switches or between a switch and another network device, like a router. Trunk interfaces use 802.1Q tagging to identify which VLAN the traffic belongs to.

Step-by-Step Breakdown:

Trunk Ports:

Trunk ports are typically used for inter-switch links or switch-to-router links where multiple VLANs need to be carried over the same physical connection.

VLAN traffic is tagged with a VLAN ID to ensure that it is properly identified as it crosses the trunk link.

802.1Q VLAN Tagging:

Trunk ports use 802.1Q to tag Ethernet frames with the VLAN ID. This ensures that frames are correctly forwarded to the appropriate VLANs on the other side of the trunk. Juniper Reference: Trunk Interface Configuration: In Juniper switches, trunk ports are configured to carry tagged traffic for multiple VLANs, which is essential for interconnecting multiple network segments.

### NEW QUESTION # 155

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