

2026 JN0-281 Dump Collection - Juniper Data Center, Associate (JNCIA-DC) - Latest Valid Test JN0-281 Testking



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Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
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">Data Center Routing Protocols BGPOSPF: 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 4	<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 5	<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.

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Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q193-Q198):

NEW QUESTION # 193

Which two protocols can you use for a data center underlay network? (Choose two)

- A. EBGP
- B. EVPN
- C. OSPF
- D. VXLAN

Answer: A,C

NEW QUESTION # 194

What are three correct layer names used in legacy hierarchical network design? (Choose three.)

- A. Core layer
- B. Function layer
- C. Access layer
- D. Aggregation layer
- E. Modular layer

Answer: A,C,D

Explanation:

In legacy hierarchical network design, three key layers are used to create a scalable and structured network:

Step-by-Step Breakdown:

Access Layer:

The access layer is where end devices, such as computers and IP phones, connect to the network. It typically involves switches that provide connectivity for devices at the edge of the network. Aggregation Layer (Distribution Layer):

The aggregation layer (also called the distribution layer) aggregates traffic from multiple access layer devices and applies policies such as filtering and QoS. It also provides redundancy and load balancing.

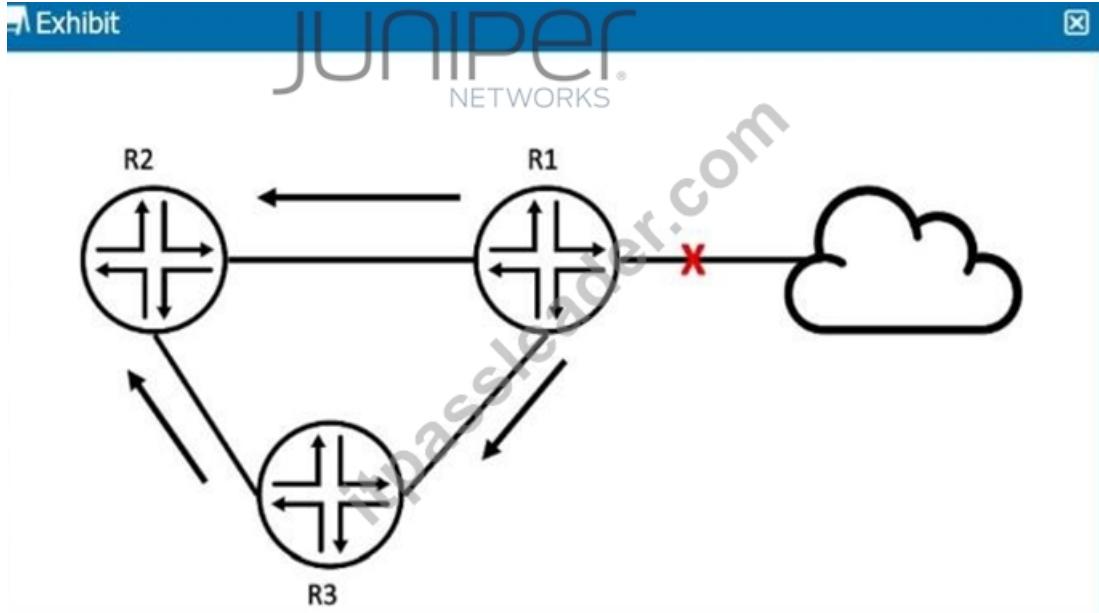
Core Layer:

The core layer provides high-speed connectivity between aggregation layer devices and facilitates traffic within the data center or between different network segments. Juniper Reference: Legacy Hierarchical Design: Juniper networks often follow the traditional

three-layer design (Access, Aggregation, and Core) to ensure scalability and high performance.

NEW QUESTION # 195

Exhibit:



R2 received an OSPF update from R1, and it received the same update from R3. Referring to the exhibit, what will R2 do?

- A. R2 ignores the update from R3.
- B. R2 does nothing with R3's update.
- C. R2 acknowledges R3 and discards it.
- D. R2 ignores the update from R1.

Answer: A

Explanation:

In the exhibit, R2 receives the same OSPF update from both R1 and R3. OSPF has mechanisms to prevent unnecessary processing of duplicate LSAs (Link-State Advertisements).

Step-by-Step Breakdown:

OSPF LSA Processing:

OSPF uses LSAs to exchange link-state information between routers. When a router receives an LSA, it checks if it already has a copy of the LSA in its Link-State Database (LSDB).

Duplicate LSAs:

If R2 has already received and processed the update from R1, it will ignore the update from R3 because it already has the same LSA in its database. OSPF uses the concept of flooding, but it does not reprocess LSAs that it already knows about.

R2 Behavior:

R2 will keep the update from R1 (the first one it received) and will ignore the same LSA from R3, as it is already in the LSDB.

Juniper Reference:

OSPF LSA Processing: Junos adheres to OSPF standards, ensuring that duplicate LSAs are not processed multiple times to avoid unnecessary recalculations.

NEW QUESTION # 196

Which statement is correct about an IP fabric?

- A. Load sharing is provided by the routing protocol used.
- B. Loop prevention is provided by the underlying spanning tree protocol used.
- C. Transit traffic is passed through the network based on the original frame's destination MAC address.
- D. The entire IP fabric is one large broadcast domain.

Answer: A

NEW QUESTION # 197

Which OSPF router type connects an OSPF area to non-OSPF networks?

- A. Autonomous System Boundary Router (ASBR)
- B. Backbone Router
- C. Area Border Router (ABR)
- D. Internal Router

Answer: A

NEW QUESTION # 198

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