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## 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>• <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 3	<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 4	<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 5	<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>
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## Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q143-Q148):

### NEW QUESTION # 143

Which statement about switches is correct?

- A. Each port is in a unique broadcast domain by default.
- B. Each port is a member of VLAN 2 by default.
- C. Every port is in a unique collision domain.
- D. All ports reside in the same collision domain.

**Answer: C**

Explanation:

Each port on a modern switch creates a separate collision domain. This allows multiple devices to communicate simultaneously without collisions on different ports.

Step-by-Step Breakdown:

Collision Domain:

A collision domain is a network segment where data packets can collide if two devices send packets simultaneously.

On a switch, each port creates a separate collision domain, so collisions only occur if two devices connected to the same port (through a hub, for instance) try to send data at the same time.

Switches vs Hubs:

Unlike hubs, which have one large collision domain, switches isolate collisions to individual ports, improving performance.

Juniper Reference:

Switch Port Behavior: In Juniper switches, each port operates in its own collision domain, enhancing network efficiency by reducing the chances of packet collisions.

### NEW QUESTION # 144

Which statement is correct about IBGP?

- A. It ensures that duplicate AS numbers are not present in the AS path.
- B. It requires a logical full mesh.
- C. It requires a physical full mesh.
- D. It ensures that the local and remote peers use different AS numbers.

**Answer: B**

Explanation:

In IBGP (Internal Border Gateway Protocol), all routers within the same AS (Autonomous System) must have a logical full-mesh topology. This means that every IBGP router must be able to communicate with every other IBGP router directly or indirectly to ensure proper route propagation.

Step-by-Step Breakdown:

Logical Full Mesh:

In an IBGP setup, routers do not re-advertise routes learned from one IBGP peer to another IBGP peer. This rule is in place to prevent routing loops within the AS.

To ensure full route propagation, a logical full mesh is required, meaning every IBGP router must peer with every other IBGP router in the AS. This can be done either directly or via route reflection or confederation.

Physical Full Mesh Not Required:

The physical topology does not need to be a full mesh, but the BGP peering relationships must form a logical full mesh. Techniques like route reflectors or BGP confederations can reduce the need for manual full-mesh peering.

Juniper

Reference: IBGP Configuration: IBGP logical full mesh requirements can be simplified using route reflectors to avoid the complexity of manually configuring many IBGP peers.

#### NEW QUESTION # 145

In a Virtual Chassis configuration, which of the following is true?

- A. It decreases network redundancy and reliability.
- **B. It reduces the operational complexity of managing multiple switches.**
- C. It allows physical stacking of switches that are geographically dispersed.
- D. Only two switches can be connected in a Virtual Chassis setup.

**Answer: B**

#### NEW QUESTION # 146

When using spine and leaf fabric architectures, what is the role of each device? (Choose two.)

- A. Leaf nodes are used for traffic to other leafs.
- B. Spine nodes are used for host connectivity.
- **C. Spine nodes are used for transit to other leaf nodes.**
- **D. Leaf nodes are used for host connectivity.**

**Answer: C,D**

Explanation:

In a spine-leaf fabric architecture, which is commonly used in data center designs, each device has a distinct role to ensure efficient and scalable network traffic flow.

Step-by-Step Breakdown:

Spine Nodes:

The spine nodes form the backbone of the fabric and are responsible for transit traffic between leaf nodes. They connect to every leaf switch and provide multiple paths for traffic between leaf nodes, ensuring redundancy and load balancing.

Leaf Nodes:

The leaf nodes are used for host connectivity. These switches connect to servers, storage, or edge routers. They also connect to the spine switches to reach other leaf switches.

Juniper Reference:

Spine-Leaf Architecture: In Juniper's IP fabric designs, spine switches handle inter-leaf communication, while leaf switches manage host and endpoint connectivity.

#### NEW QUESTION # 147

How does a layer 2 switch populate its bridge table?

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

**Answer: D**

#### NEW QUESTION # 148

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