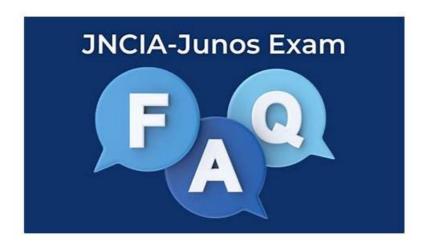
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# Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Торіс 1	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 2	<ul> <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 3	<ul> <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 4	<ul> <li>Layer 2 Switching and VLANs: This section of the exam measuresthe 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>

Торіс 5

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.

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# Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q90-Q95):

#### **NEW QUESTION #90**

In the Junos OS, which feature is used to create an alternate next hop with a unique preference for a static route?

- A. Resolve
- B. Preference
- C. Qualified-next-hop
- D. Next-hop

#### Answer: C

#### Explanation:

In Junos OS, the qualified-next-hop feature is used to specify an alternate next hop for a static route, along with a unique preference value.

Step-by-Step Breakdown:

Qualified-Next-Hop:

A qualified-next-hop allows you to define multiple next hops for a static route, each with its own preference. This provides flexibility by allowing the router to choose the best available next hop based on reachability and preference.

Use Case:

If the primary next hop becomes unreachable, the router can automatically switch to the alternate next hop defined by the qualified-next-hop with a higher preference value.

#### Command Example:

set routing-options static route 10.10.10.0/24 qualified-next-hop 192.168.1.1 preference 5 set routing-options static route 10.10.10.0/24 qualified-next-hop 192.168.1.2 preference 10 Preference:

The next hop with the lowest preference is chosen first. If it becomes unavailable, the router will use the higher preference next hop. Juniper

Reference: Qualified-Next-Hop: This feature is used to configure backup or alternate next hops for static routes in Juniper devices.

#### **NEW QUESTION #91**

What happens if a frame with a known destination MAC address enters a switch?

- A. The ingress PFE performs a MAC address lookup and determines the egress PFE and port.
- B. The ingress PFE sends the header information to the RE.
- C. The egress PFE performs a MAC address lookup and determines the ingress PFE and port.
- D. The MAC address is added to the bridge table.

#### Answer: A

#### **NEW QUESTION #92**

What is the default route preference of a static route in the Junos OS?

- A. 0
- B. 1
- C. 2
- D. 3

#### Answer: B

#### Explanation:

In Junos OS, the default route preference for a static route is 5. Route preference values are used to determine which route should be installed in the routing table when multiple routes to the same destination are available.

Step-by-Step Breakdown:

Static Route Preference:

A static route, by default, has a preference of 5, making it a highly preferred route. Lower preference values are more preferred in Junos, meaning static routes take precedence over most dynamic routing protocol routes, such as OSPF (preference 10) or BGP (preference 170).

Route Preference:

Route preference is a key factor in the Junos routing decision process. Routes with lower preference values are preferred and installed in the forwarding table.

Juniper Reference:

Static Routes: In Junos, the default preference for static routes is 5, making them more preferred than most dynamic routes.

#### **NEW QUESTION #93**

Which two statements are true about how switches handle Layer 2 traffic? (Choose two.)

- A. Traffic is forwarded based on the source MAC address.
- B. The MAC address is learned based on the destination MAC address.
- C. Traffic is forwarded based on the destination MAC address.
- D. The MAC address is learned based on the source MAC address.

### Answer: C,D

#### 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 #94**

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

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

# Answer: B,C

## **NEW QUESTION #95**

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