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JN0-281

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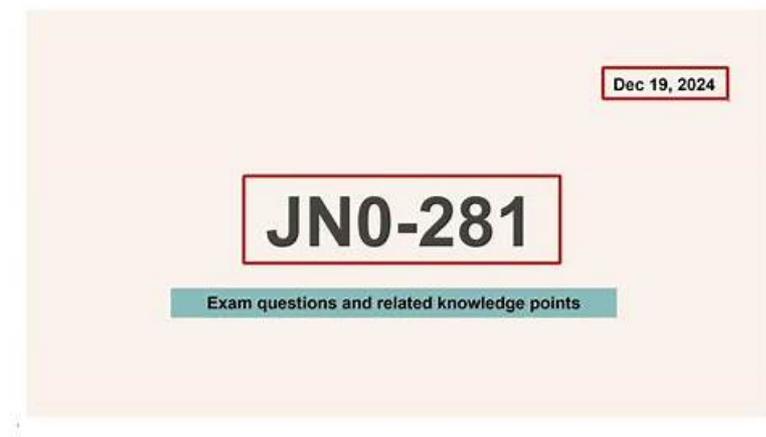
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Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	- Data Center Routing Protocols BGP - 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.
Topic 2	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 3	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.
Topic 4	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 5	• 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.

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Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q70-Q75):

NEW QUESTION # 70
Exhibit:


```
{master:0}[edit switch-options]
user@switch# show
interface ge-0/0/1.0 {
    persistent-learning;
}
```

Referring to the exhibit, which behavior does this configuration enable on the ge-0/0/1.0 interface?

- A. This configuration enables the device to shut down the interface when a particular MAC address persistently sends broadcast traffic.
- B. This configuration enables the interface to learn and remember MAC addresses, until the device is rebooted.
- C. This configuration enables a MAC address learned on the interface to be persistently retained in the Ethernet-switching table, even after a reboot.
- D. This configuration enables the device to place a MAC address that persistently causes network errors into a special protected VLAN.

Answer: C

Explanation:
The configuration in the exhibit shows the persistent-learning feature enabled on interface ge-0/0/1.0.
Step-by-Step Breakdown:
Persistent Learning:
Persistent-learning ensures that the MAC addresses learned on the interface are retained in the Ethernet-switching table, even after a device reboot. This prevents the need to re-learn MAC addresses after the device restarts, improving stability and reducing downtime.
Use Case:
This feature is particularly useful in environments where the re-learning of MAC addresses could cause temporary disruptions or delays in communication, such as in critical Layer 2 network segments.
Command Example:
set switch-options interface ge-0/0/1.0 persistent-learning
Juniper Reference:
Persistent MAC Learning: In Junos, enabling persistent-learning ensures that learned MAC addresses are not lost during reboots, contributing to smoother network operations in environments where stability is crucial.

NEW QUESTION # 71
What is the default route preference of a static route in the Junos OS?

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

Answer: C

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 # 72
What is the primary purpose of using static routes in a network?

- A. To automatically adjust routes based on network traffic
- B. To provide a manually configured routing entry
- C. To aggregate multiple routes into one
- D. To generate routing entries dynamically

Answer: B

NEW QUESTION # 73
Which statement is correct about aggregate routes?

- A. The default next hop is resolve.
- B. The default next hop is reject.

- C. The default next hop is readvertise.
- D. The default next hop is discard.

Answer: B

Explanation:
An aggregate route is a summarized route that is created by combining multiple specific routes into a single, broader route. In Junos OS, when an aggregate route is configured, its default next hop is set to reject.
Step-by-Step
Aggregate Route:
Aggregate routes are used to reduce the size of routing tables by representing a collection of more specific routes with a single summary route. They help improve routing efficiency and scalability, especially in large networks.
Default Next Hop Behavior:
When you configure an aggregate route in Junos OS, it has a reject next hop by default.
The reject next hop means that if a packet matches the aggregate route but there is no more specific route in the routing table for that destination, the packet will be discarded, and an ICMP "destination unreachable" message is sent to the source.
This behavior helps to prevent routing loops and ensures that traffic isn't forwarded to destinations for which there is no valid route.
Modifying Next Hop:
If needed, the next hop behavior of an aggregate route can be changed to discard (which silently drops the packet) or to another specific next hop. However, by default, the next hop is set to reject. Juniper Reference: Junos Command: set routing-options aggregate route <route> reject to configure an aggregate route with a reject next hop.
Verification: Use show route to verify the presence and behavior of aggregate routes.

NEW QUESTION # 74
What is the primary purpose of MAC address filtering on a switch?

- A. To limit the rate of incoming packets.
- B. To control the flow of encrypted data.
- C. To prevent unauthorized devices from accessing the network.
- D. To distribute traffic evenly across multiple links.

Answer: C

NEW QUESTION # 75
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