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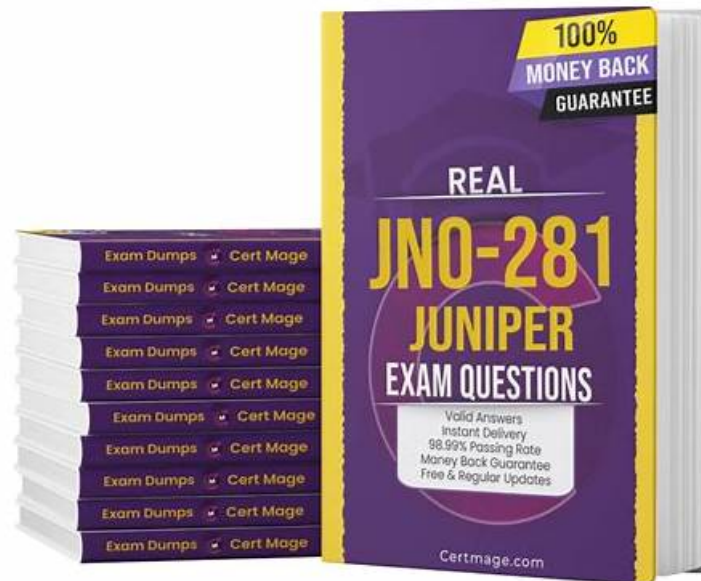

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Juniper JN0-281 Exam Syllabus Topics:

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	• 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 3	• 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 4	• 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 5	• 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.

Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q132-Q137):

NEW QUESTION # 132
Which OSPF troubleshooting tool is used to check the OSPF process and neighborship?

- A. Route summarization
- B. Ping
- C. Traceoptions
- D. SNMP

Answer: C

NEW QUESTION # 133
Exhibit:

```
[edit routing-options]
user@Router# show
static {
    route 0.0.0.0/0 {
        next-hop 172.25.11.254;
        qualified-next-hop 172.25.11.200 {
            preference 140;
        }
    }
}
```

Referring to the exhibit, what is the route preference of the 172.25.11.254 next hop?

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

Answer: B

Explanation:
In the exhibit, we see two next-hop addresses for the default static route (0.0.0.0/0):
The first next hop is 172.25.11.254, with no specified preference.
The second next hop is 172.25.11.200, with a specified preference of 140.
Step-by-Step Breakdown:
Default Static Route Preference:
If no preference is explicitly set for a next hop in Junos, it defaults to 5 for static routes.
Determining Preference:
In this case, the next hop 172.25.11.254 does not have an explicit preference defined, so it will use the default value of 5. The second next hop has a preference of 140, which is higher, meaning it will only be used if the primary next hop is unavailable. Juniper Reference: Static Route Preference: In Junos, the default preference for static routes is 5, and this value is applied unless overridden by the preference parameter.

NEW QUESTION # 134
What is the main advantage of using an Overlay Network in a data center?

- A. It provides direct Internet access to applications.
- B. It offers higher physical bandwidth capacity.
- C. It replaces the need for physical network infrastructure.
- D. It simplifies physical network design by allowing multiple virtual topologies over it.

Answer: D

NEW QUESTION # 135
What are three correct layer names used in legacy hierarchical network design? (Choose three.)

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

Answer: B,C,E

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 # 136

Which statement is correct about per-flow load balancing?

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

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 # 137

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