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Exam : JN0-281

**Title : Data Center, Associate
(JNCIA-DC)**

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Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none">• 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 3	<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 4	<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 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	<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.

Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q109-Q114):

NEW QUESTION # 109

Which state in the adjacency process do OSPF routers check the MTU size?

- **A. Exchange**
- B. ExStart
- C. Init
- D. Done

Answer: A

Explanation:

In OSPF, routers exchange link-state information in different stages to establish full adjacency. The MTU size is checked during the Exchange state.

Step-by-Step Breakdown:

OSPF Adjacency Process:

OSPF routers go through multiple stages when forming an adjacency: Down, Init, 2-Way, ExStart, Exchange, Loading, and Full.

Exchange State:

During the Exchange state, OSPF routers exchange Database Description (DBD) packets to describe their link-state databases. The MTU size is checked at this stage to ensure both routers can successfully exchange these packets without fragmentation.

If there is an MTU mismatch, the routers may fail to proceed past the Exchange state.

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Reference: MTU Checking in OSPF: Junos uses the Exchange state to check for MTU mismatches, ensuring that routers can properly exchange database information without packet fragmentation issues.

NEW QUESTION # 110

Which two statements are correct about rules for EBGp and IBGP? (Choose two.)

- A. EBGp peers have a TTL of 255, while IBGP peers have a TTL of 1.
- **B. EBGp routes are more preferred than IBGP routes.**
- C. IBGP routes are more preferred than EBGp routes.
- **D. EBGp peers have a TTL of 1, while IBGP peers have a TTL of 255.**

Answer: B,D

Explanation:

EBGP (External BGP) and IBGP (Internal BGP) operate with different rules due to the nature of their relationships.

Step-by-Step Breakdown:

TTL Differences:

EBGP: By default, EBGp peers have a TTL of 1, meaning they must be directly connected, or the TTL needs to be manually increased for multihop EBGp.

IBGP: IBGP peers within the same AS have a TTL of 255, as they are expected to communicate over multiple hops within the AS.

Preference for EBGp Routes:

Routes learned via EBGp are typically preferred over IBGP routes. This is because EBGp routes are considered more reliable since they originate outside the AS, while IBGP routes are internal.

Juniper Reference:

BGP Configuration: The different handling of TTL and route preferences between EBGp and IBGP ensures proper route selection and security within Junos-based networks.

NEW QUESTION # 111

Referring to the exhibit, which two statements are true? (Choose two.)



```
{master:0}[edit protocols bgp]
user@switch# show
group DC_overlay {
  multihop;
  local-address 192.168.100.1;
  family evpn {
    signaling;
  }
  neighbor 192.168.100.2;
}
```

- A. The configuration will pass the commit check.
- **B. The BGP group is configured to attempt an EBGp peering session with 192.168.100.2.**
- **C. The configuration will not pass the commit check.**
- D. The BGP group is configured to attempt an EBGp peering session with 192.168.100.1.

Answer: B,C

NEW QUESTION # 112

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 # 113

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

- **A. Leaf nodes are used for host connectivity.**
- 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 traffic to other leafs.

Answer: A,C

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 # 114

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