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Juniper

JN0-281

Data Center, Associate (JNCIA-DC)

QUESTION & ANSWERS

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Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.

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"> • 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	<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 5	<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.

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Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q45-Q50):

NEW QUESTION # 45

Referring to the exhibit, why are the BGP routes hidden?

- A. The BGP next hop is unreachable.
- B. Load balancing is not enabled.
- C. There are too many hops to the destination.
- D. Other routes are selected because of better metrics.

Answer: A

Explanation:

In the exhibit, the BGP routes are marked as hidden. This typically happens when the routes are not considered valid for use, but they remain in the routing table for reference. One common reason for BGP routes being hidden is that the next hop for these routes is unreachable.

Step-by-Step Breakdown:

BGP Next Hop:

In BGP, when a route is received from a neighbor, the next hop is the IP address that must be reachable for the route to be used. If

the next hop is unreachable (i.e., the router cannot find a path to the next-hop IP), the route is marked as hidden. Analyzing the Exhibit:

The exhibit shows that the BGP next hop for all hidden routes is 10.4.4.4. If this IP is unreachable, the BGP routes from that neighbor will not be considered valid, even though they appear in the routing table.

Verification:

Use the command `show route 10.4.4.4` to check if the next-hop IP is reachable.

If the next-hop is not reachable, the BGP routes will be hidden. Resolving the next-hop reachability issue (e.g., fixing an IGP route or an interface) will allow the BGP routes to become active. Juniper Reference: Junos Command: `show route hidden` displays routes that are not considered for forwarding. Troubleshooting: Check the next hop reachability for hidden BGP routes using `show route <next-hop>`.

NEW QUESTION # 46

What are two requirements for an IP fabric? (Choose two.)

- A. a Layer 2 switching protocol
- B. a single connection between each leaf
- C. a single connection between each spine and leaf
- D. a Layer 3 routing protocol

Answer: C,D

Explanation:

An IP fabric is a network architecture commonly used in data centers to provide scalable, high-throughput connectivity using a spine-leaf topology.

Step-by-Step Breakdown:

Layer 3 Routing Protocol:

An IP fabric relies on a Layer 3 routing protocol, typically BGP or OSPF, to provide routing between the leaf and spine switches. This ensures efficient traffic forwarding across the network. Single Connection Between Spine and Leaf:

In an IP fabric, each leaf switch connects to every spine switch with a single connection. This ensures that traffic between any two leaf switches can travel through the spine layer in just two hops.

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Reference: Spine-Leaf Design: Juniper's IP fabric implementations are designed for scalability and low-latency routing, often using protocols like BGP for Layer 3 control.

NEW QUESTION # 47

What is a common issue to check for when troubleshooting a LAG not forming correctly?

- A. Identical IP addresses on all LAG interfaces
- B. Excessive broadcast traffic
- C. Mismatched VLAN configurations
- D. Overutilization of CPU resources

Answer: C

NEW QUESTION # 48

What are the different OSPF area types? (Choose two)

- A. Default-Free Zone
- B. Stub Area
- C. Virtual Link Area
- D. Not-So-Stubby Area (NSSA)

Answer: B,D

NEW QUESTION # 49

Which three actions are required to implement filter-based forwarding? (Choose three.)

- A. You must create a security policy.
- B. You must create an instance-type vrf routing instance.
- C. You must create a match filter.
- D. You must create a RIB group.
- E. You must create an instance-type forwarding routing instance.

Answer: C,D,E

Explanation:

Filter-Based Forwarding (FBF) in Junos OS allows traffic to be routed based on specific criteria such as source address, rather than just the destination address. This is useful in scenarios like policy routing or providing multiple paths for different types of traffic.

Step-by-Step Breakdown:

Instance-Type Forwarding:

You must create an instance-type forwarding routing instance. This routing instance allows for different routing tables based on the incoming packet filter.

Command:

```
set routing-instances FBF-instance instance-type forwarding
```

Match Filter:

You need to create a filter to match the traffic that will be forwarded according to your custom routing policy. This filter is applied to an interface to determine which traffic will use the custom forwarding instance.

Command Example:

```
set firewall family inet filter FBF-filter term 1 from source-address <address> set firewall family inet filter FBF-filter term 1 then routing-instance FBF-instance RIB Group:
```

A RIB (Routing Information Base) group is necessary to share routes between the primary routing table and the custom routing instance. This allows FBF traffic to use the routing information from other routing tables.

Command Example:

```
set routing-options rib-groups FBF-group import-rib inet.0 set routing-instances FBF-instance routing-options rib-group FBF-group
```

Juniper Reference:

FBF Configuration: Filter-based forwarding requires these specific steps to redirect traffic to a custom routing table based on filter criteria.

NEW QUESTION # 50

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