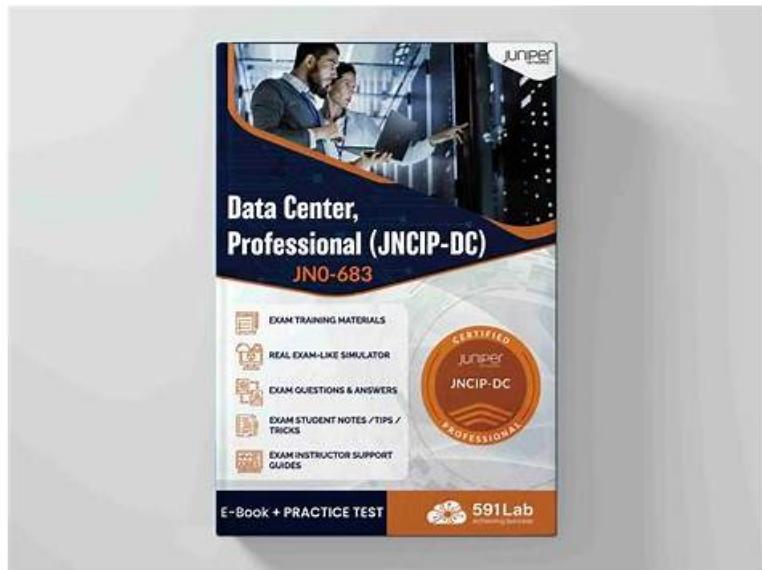


Juniper JN0-683 Reliable Study Guide - New JN0-683 Cram Materials



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Juniper JN0-683 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Layer 3 Fabrics: This section measures the knowledge of professionals managing IP-based networks in data centers. It covers IP fabric architecture and routing, ensuring candidates understand how the network is structured for scalability and how traffic is routed efficiently.
Topic 2	<ul style="list-style-type: none">Data Center Deployment and Management: This section assesses the expertise of data center networking professionals like architects and engineers, focusing on key deployment concepts. Topics include Zero-touch provisioning (ZTP), which automates device setup in data centers without manual input.
Topic 3	<ul style="list-style-type: none">VXLAN: This part requires knowledge of VXLAN, particularly how the control plane manages communication between devices, while the data plane handles traffic flow. Demonstrate knowledge of how to configure, Monitor, or Troubleshoot VXLAN.
Topic 4	<ul style="list-style-type: none">Data Center Multitenancy and Security: This section tests knowledge of single-tenant and multitenant data center setups. Candidates such as Data Center Professionals are evaluated on ensuring tenant traffic isolation at both Layer 2 and Layer 3 levels in shared infrastructure environments.
Topic 5	<ul style="list-style-type: none">Data Center Interconnect: For Data Center Engineers, this part focuses on interconnecting data centers, covering Layer 2 and Layer 3 stretching, stitching fabrics together, and using EVPN-signaled VXLAN for seamless communication between data centers.

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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q36-Q41):

NEW QUESTION # 36

You are asked to interconnect two of your company's data centers across the IP backbone. Both data centers have their own unique IP space and do not require any bridging. In this scenario, which two actions would accomplish this task? (Choose two.)

- A. Configure peering for EVPN between border leaf nodes in each data center.
- B. Configure a Type 2 EVPN route for each unique prefix.
- C. Configure peering for EVPN between all leaf nodes within each data center.
- D. Configure a Type 5 EVPN route for each unique prefix.

Answer: A,D

Explanation:

* Interconnecting Data Centers:

* The scenario requires interconnecting two data centers with unique IP spaces across an IP backbone. The key point is that bridging is not required, so Layer 3 routing methods must be used.

* EVPN Configuration:

* Option B:Establishing EVPN peering between the border leaf nodes in each data center is the most appropriate solution as it allows for exchanging routing information between the two data centers. This ensures that the routes are properly distributed without the need for L2 bridging.

* Option C:Configuring Type 5 EVPN routes is necessary for advertising IP prefixes (Layer 3 routes) across the EVPN. Type 5 routes allow for the exchange of IP prefixes between the two data centers, enabling the necessary routing functionality without the need for bridging.

Conclusion:

* Option B:Correct-Peering between border leaf nodes sets up the necessary route exchange between data centers.

* Option C:Correct-Type 5 EVPN routes are essential for exchanging Layer 3 prefixes between data centers.

NEW QUESTION # 37

You are asked to deploy 100 QFX Series devices using ZTP. Each OFX5120 requires a different configuration. In this scenario, what are two components that you would configure on the DHCP server? (Choose two.)

- A. the IP address of the FTP server
- B. the MAC address for each OFX5120
- C. the MAC address of the FTP server
- D. the management IP address for each OFX5120

Answer: B,D

NEW QUESTION # 38

Which two statements are true about EVPN routes for Data Center Interconnect? (Choose two.)

- A. Type 2 EVPN routes do not require a VXLAN tunnel to the protocol next hop.

- B. Type 5 EVPN routes do not require a VXLAN tunnel to the protocol next hop.
- C. Type 2 EVPN routes require a VXLAN tunnel to the protocol next hop.
- D. Type 5 EVPN routes require a VXLAN tunnel to the protocol next hop.

Answer: A,B

Explanation:

* Type 2 EVPN Routes:

* Type 2 routes advertise MAC addresses within an EVPN instance and are used primarily for Layer 2 bridging. These routes do not require a VXLAN tunnel to the protocol next hop because they operate within the same Layer 2 domain.

* Type 5 EVPN Routes:

* Type 5 routes are used to advertise IP prefixes (Layer 3 routes) within EVPN. Similar to Type 2 routes, they do not require a VXLAN tunnel to the protocol next hop because they represent L3 routes, which are managed at the routing layer without the need for VXLAN encapsulation.

Conclusion:

* Option B:Correct-Type 2 routes do not need a VXLAN tunnel to the next hop, as they are used for Layer 2.

* Option D:Correct-Type 5 routes also do not need a VXLAN tunnel because they operate at Layer 3, handling IP prefixes.

NEW QUESTION # 39

Exhibit:

□ Referring to the exhibit, when Host A sends an ARP request for Host B's IP address, which Junos feature does leaf1 require to send an ARP response back to Host A without having to send a broadcast frame over the fabric?

- A. proxy ARP
- B. proxy NDP
- C. DAD
- D. GARP

Answer: A

Explanation:

* Scenario Overview:

* In the exhibit, Host A is trying to resolve Host B's IP address (10.10.1.2) through ARP (Address Resolution Protocol). Normally, an ARP request would be broadcasted over the network, and the host owning the IP address (Host B) would respond.

* Role of Proxy ARP:

* Option A:Proxy ARP allows a router or switch (in this case, leaf1) to respond to ARP requests on behalf of another host. Leaf1, knowing the MAC address of Host B through the EVPN MAC advertisement, can reply to Host A's ARP request directly without broadcasting the request across the entire network fabric. This feature reduces unnecessary traffic and increases network efficiency.

Conclusion:

* Option A:Correct-Proxy ARP enables leaf1 to respond to Host A's ARP request for Host B's IP without broadcasting over the IP fabric, thus providing the ARP response locally.

NEW QUESTION # 40

Exhibit:

□ Host A is connected to vlan 100 on lead. Host B is connected to vlan 200 on leaf1. Host A and Host B are unable to communicate. You have reviewed the routing and your hosts have the correct default route (.1) Referring to the exhibit, which two commands will solve the problem? (Choose two.)

- A. set interfaces irb unit 100 family inet address 192-168.100.1
- B. set vlans vn100 13-interface irb.100
- C. delete vlans vn200 13-interface irb.200
- D. set routing-options static route 0.0.0.0/0 next-hop 192.168.200.10

Answer: B,D

Explanation:

In the provided network configuration, Host A is in VLAN 100 and Host B is in VLAN 200. The issue arises because these two hosts are unable to communicate, which indicates that either the interfaces are not properly linked to their respective VLANs, or there is a missing static route required for inter-VLAN routing.

Step-by-Step Analysis:

* VLAN Assignment:

* The exhibit shows that irb.200 is correctly associated with VLAN 200 in the configuration.

However, there is no corresponding irb.100 for VLAN 100. Without irb.100, the network lacks the logical interface to handle routing for VLAN 100. Thus, adding irb.100 to VLAN 100 is necessary.

Command to solve this:

```
set vlans vn100 13-interface irb.100
```

* Static Route Configuration:

* For inter-VLAN routing to occur, a static route needs to be configured that allows traffic to pass between different subnets (in this case, between VLAN 100 and VLAN 200). The command set routing-options static route 0.0.0.0/0 next-hop 192.168.200.10 would add a static route that directs all traffic from VLAN 100 to the correct gateway (192.168.200.10), which is necessary to route traffic between the two VLANs.

Command to solve this:

```
set routing-options static route 0.0.0.0/0 next-hop 192.168.200.10
```

Explanation of Incorrect Options:

* Option A (delete vlans vn200 13-interface irb.200): This would remove the logical interface associated with VLAN 200, which is not desired because we need VLAN 200 to remain active and properly routed.

* Option B (set interfaces irb unit 100 family inet address 192-168.100.1): This command would incorrectly assign an IP address that does not correspond with the subnet of VLAN 100 (192.168.200.1)

/24). This could create a misconfiguration, leading to routing issues.

Data Center References:

For a Data Center, proper VLAN management and static routing are crucial for ensuring that different network segments can communicate effectively, especially when dealing with separated subnets or zones like in different VLANs. This aligns with best practices in DCIM (Data Center Infrastructure Management) which stress the importance of proper network configuration to avoid downtime and ensure seamless communication between all critical IT infrastructure components.

Ensuring that the correct interfaces are associated with the correct VLANs and having the proper static routes in place are both essential steps in maintaining a robust and reliable data center network.

This detailed analysis reflects best practices as noted in standard data center design and network configuration guides.

NEW QUESTION # 41

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