

JN0-683 Prüfungsübungen - JN0-683 Exam

JN0-683 Exam Dumps: The Ultimate Guide to Passing with Ease

Introduction

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Juniper JN0-683 Prüfungsplan:

Thema	Einzelheiten
Thema 1	• 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.
Thema 2	• 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.

Thema 3	• 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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>> JN0-683 Prüfungsübungen <<

Juniper JN0-683 Exam & JN0-683 Prüfung

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Juniper Data Center, Professional (JNCIP-DC) JN0-683 Prüfungsfragen mit Lösungen (Q15-Q20):

15. Frage

Exhibit.

```
user@device> show configuration routing-instances
```

```
Customer_B {
  instance-type vrf;
  routing-options {
    graceful-restart;
    multipath;
    auto-export;
  }
  protocols {
    evpn {
      irb-symmetric-routing {
        vni 10006;
      }
      ip-prefix-routes {
        advertise direct-nexthop;
        encapsulation vxlan;
        vni 10006;
        export export_policy;
      }
    }
  }
  interface irb.400;
  interface irb.800;
  interface lo0.3;
  route-distinguisher 172.16.0.2:20;
  vrf-target target:10006:1;
}
Customer_A {
  instance-type vrf;
  routing-options {
    graceful-restart;
    multipath;
    auto-export;
  }
  protocols {
    evpn {
      irb-symmetric-routing {
        vni 10000;
      }
      ip-prefix-routes {
        advertise direct-nexthop;
        encapsulation vxlan;
        vni 10000;
        export export_policy;
      }
    }
  }
  interface et-0/0/51.5;
  interface irb.3;
  interface irb.300;
  interface irb.1000;
  interface irb.2000;
  interface irb.4000;
  interface lo0.2;
  route-distinguisher 172.16.0.2:2;
  vrf-target target:10000:1;
}
```

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Referring to the configuration shown in the exhibit, assume that there is no external router present, and that the configuration is fabric-only.

Which two statements are true about the example configuration? (Choose two.)

- A. Devices in routing instance Customer_A are able to communicate with devices in routing instance Customer_B
- B. Devices in irb.400 (vlan 400) and irb.800 (vlan 800) are able to communicate over the fabric.
- C. VNI 10006 is assigned to vlan 800 (irb.800).
- D. Devices in irb.400 (vlan 400) are not able to communicate directly with devices in routing instance Customer_A.

Antwort: B,D

Begründung:

* Understanding the Configuration:

* The exhibit shows configurations for two VRFs (Customer_A and Customer_B) with specific VLANs and VNIs assigned. Each VRF has interfaces (IRBs) associated with particular VLANs.

* Communication Between VLANs and Routing Instances:

* Option B: VLAN 400 (irb.400) is part of Customer_B, and there is no direct connection or routing between Customer_A and Customer_B in the configuration provided. Therefore, devices in irb.400 cannot communicate directly with devices in the Customer_A routing instance.

* Option D: Since irb.400 (VLAN 400) and irb.800 (VLAN 800) are part of the same routing instance (Customer_B), they can communicate over the fabric using VXLAN encapsulation.

Conclusion:

* Option B: Correct - There is no direct communication between devices in irb.400 (Customer_B) and routing instance Customer_A.

* Option D: Correct - Devices in VLAN 400 and VLAN 800 can communicate within the Customer_B routing instance over the fabric.

16. Frage

Exhibit.



```
user@leaf1> show ethernet-switching table
MAC flags (S - static MAC, D - dynamic MAC, L - locally learned, P - Persistent static
SE - statistics enabled, NM - non configured MAC, R - remote PE MAC, O - ovsdb MAC)
Ethernet switching table : 6 entries, 6 learned
Routing instance : default-switch
```

Vlan name	MAC address	MAC flags	Logical interface	SVLBNH/ VENH Index	Active source
v10	00:00:5e:00:01:01	DRP	esi.1777		
	05:00:00:fd:e9:00:00:13:92:00				
v10	00:0c:29:e8:b7:39	D	xe-0/0/4.0		
v10	02:05:86:d9:1b:00	DR	vtep.32769		192.168.100.13
v20	00:00:5e:00:01:01	DRP	esi.1759		
	05:00:00:fd:e9:00:00:13:9c:00				
v20	00:0c:29:08:04:a0	DR	vtep.32769		192.168.100.13
v20	02:05:86:d9:1b:00	DR	vtep.32769		192.168.100.13

Referring to the exhibit, why is the active source field blank for the entry that uses the 00:0c:29:e8:b7:39 MAC address?

- A. The EVPN route for this host does not have a valid next hop.
- B. This entry is associated with a multicast EVPN route.
- C. The ARP lookup for this host has failed.
- D. The host for this entry is locally connected to leaf1.

Antwort: A

Begründung:

In this scenario, the active source field is blank for the MAC address 00:0c:29:e8:b7:39, indicating an issue with how this MAC entry is being processed within the EVPN/VXLAN environment.

Step-by-Step Analysis:

* Understanding the MAC Entry:

* The active source field should normally indicate the source of the route advertisement for a specific MAC address within the EVPN. If it is blank, it suggests that there is a problem with how this entry is being learned or propagated.

* Possible Issues:

* Option A: If the EVPN route for this MAC address does not have a valid next hop, the entry might exist in the MAC table, but it will not have a valid path for forwarding, leading to a blank active source.

* Option B: If the ARP lookup had failed, the entry might not even appear in the MAC table.

However, the entry does exist, suggesting that ARP is not the primary issue here.

* Option C: If the host were locally connected, the active source should reflect a local interface, but the field is blank, ruling out local connection as the cause.

* Option D: Multicast EVPN routes typically do not appear in this manner in the MAC table, and this would not cause the active source to be blank.

Conclusion: The most logical explanation is that the EVPN route for this host exists but does not have a valid next hop, leading to the absence of an active source. This is consistent with how EVPN routing tables work in a VXLAN environment, where the lack of a valid next hop would prevent proper route advertisement and forwarding for the specific MAC address.

17. Frage

What are two ways in which an EVPN-signaled VXLAN is different from a multicast-signaled VXLAN?

(Choose two.)

- **A. An EVPN-signaled VXLAN can perform autodiscovery of VTEPs using BGP.**
- B. An EVPN-signaled VXLAN features slower and more complete convergence.
- **C. An EVPN-signaled VXLAN is less resource intensive.**
- D. An EVPN-signaled VXLAN can perform autodiscovery of VTEPs using IS-IS.

Antwort: A,C

Begründung:

* Multicast-Signaled VXLAN:

* In traditional multicast-signaled VXLAN, VTEPs (VXLAN Tunnel Endpoints) use multicast to flood and learn about remote VTEPs. This method relies on multicast in the underlay network to distribute BUM (Broadcast, Unknown unicast, and Multicast) traffic.

* This approach can be resource-intensive due to the need for multicast group management and increased network traffic, especially in large deployments.

* EVPN-Signaled VXLAN:

* EVPN-signaled VXLAN uses BGP (Border Gateway Protocol) to signal the presence of VTEPs and distribute MAC address information. BGP is used for VTEP autodiscovery and the distribution of endpoint information.

* This method is more efficient because it reduces the reliance on multicast, instead using BGP control-plane signaling to handle VTEP discovery and MAC learning, which reduces the overhead on the network and improves scalability.

* Correct Statements:

* B. An EVPN-signaled VXLAN can perform autodiscovery of VTEPs using BGP: This is correct because EVPN uses BGP for VTEP autodiscovery, making it more efficient and scalable compared to multicast-based methods.

* C. An EVPN-signaled VXLAN is less resource-intensive: This is correct because it eliminates the need for multicast flooding in the underlay, instead using BGP for signaling, which is less demanding on network resources.

* Incorrect Statements:

* A. An EVPN-signaled VXLAN can perform autodiscovery of VTEPs using IS-IS: This is incorrect because EVPN relies on BGP, not IS-IS, for VTEP discovery and signaling.

* D. An EVPN-signaled VXLAN features slower and more complete convergence: This is incorrect; EVPN with BGP typically provides faster convergence due to its use of a control plane rather than relying on data plane learning.

Data Center References:

* EVPN-VXLAN is widely adopted in modern data center designs due to its scalability, efficiency, and reduced resource consumption compared to multicast-based VXLAN solutions. It leverages the strengths of BGP for control-plane-driven operations, resulting in more efficient and scalable networks.

18. Frage

You are asked to interconnect two of your company's data centers across an IP backbone. Both data centers require Layer 2 and Layer 3 connectivity. In this scenario, which three actions would accomplish this task?

(Choose three.)

- A. Ensure border leaf nodes in each data center can exchange EVPN routes.
- B. Ensure there is a full mesh of VTEPs between all spine nodes within both data centers.
- C. Ensure there is a full mesh of VTEPs between all leaf nodes within data centers.
- D. Advertise Type 2 EVPN routes across the DCI.
- E. Advertise Type 5 EVPN routes across the DCI.

Antwort: A,D,E

Begründung:

* Layer 2 and Layer 3 Connectivity Requirements:

* To interconnect two data centers across an IP backbone with both Layer 2 (L2) and Layer 3 (L3) connectivity, EVPN-VXLAN (Ethernet VPN with Virtual Extensible LAN) is the ideal solution.

EVPN supports L2 VPNs while also enabling L3 connectivity across multiple locations.

* Necessary EVPN Route Types:

* Type 2 EVPN Routes: These routes are used to advertise MAC addresses for Layer 2 connectivity. They are essential for enabling seamless L2 communication across data centers.

* Type 5 EVPN Routes: These routes are necessary for advertising IP prefixes for Layer 3 connectivity between data centers. They enable the exchange of L3 information across the IP backbone, ensuring routed traffic can reach its destination.

* Border Leaf Nodes:

* Border Leaf Nodes: Ensuring that the border leaf nodes (the entry and exit points for traffic between data centers) can exchange EVPN routes is critical for the correct dissemination of both L2 and L3 information across the data centers.

Conclusion:

* Option A: Correct-Type 2 EVPN routes are required for Layer 2 MAC address learning and communication across the DCI (Data Center Interconnect).

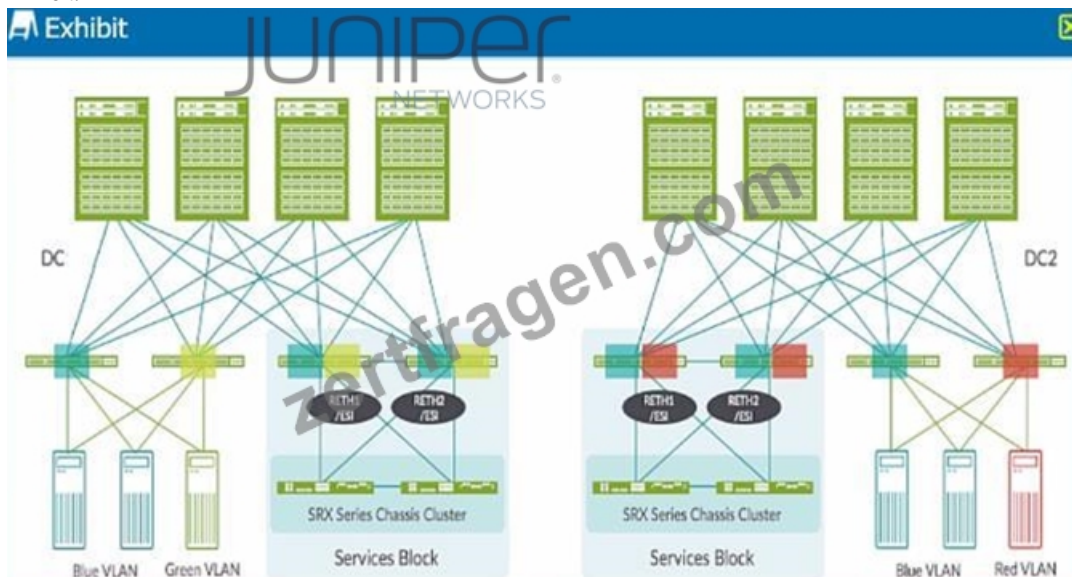
* Option B: Correct-Border leaf nodes need to exchange EVPN routes to maintain connectivity between data centers.

* Option D: Correct-Type 5 EVPN routes are essential for Layer 3 connectivity across the DCI.

Options C and E are incorrect because they refer to establishing full mesh VTEPs (VXLAN Tunnel Endpoints) across all spine or leaf nodes, which is unnecessary for the scenario provided. The focus should be on border leaf nodes and appropriate route advertisements for L2 and L3 connectivity.

19. Frage

Exhibit.



Both DC and DC2 are using EVPN-VXLAN technology deployed using an ERB architecture. A server on the Red VLAN must communicate with a server on the Green VLAN. The Blue VLAN in DC and DC2 needs to be the same VLAN.

Which statement is correct in this scenario?

- A. An interconnect is required between the four SRX Series devices; the Blue VLAN must be stretched and a transit VNI must be added for the Red and Green VLANs.
- B. The eight spine devices must be configured as border spine devices; a full mesh interconnect must exist between all eight spine devices and the Blue VLAN must be stretched together.
- C. A lean super spine device must be added to DC and DC2; all VLANs must be stretched to the lean super spine device and the lean super spine devices must stitch all the VLANs together.

- D. An interconnect is required between four leaf devices in the services blocks; the Red VLAN and the Green VLAN must be stitched and the Blue VLAN must be stretched.

Antwort: A

Begründung:

* ERB Architecture in EVPN-VXLAN:

* ERB (Edge Routed Bridging) architecture is commonly used in data center networks where routing decisions are made at the network edge (leaf or border devices), while bridging (Layer 2 forwarding) is extended across the fabric. This architecture allows for efficient L3 routing while still enabling L2 services like VLANs to span across multiple locations.

* VLAN and VNI Configuration:

* The scenario specifies that a server on the Red VLAN needs to communicate with a server on the Green VLAN. Since these VLANs are in different data centers (DC and DC2), and given the use of EVPN-VXLAN, the communication between these VLANs will require a transit VNI (Virtual Network Identifier). This transit VNI will allow traffic to traverse the VXLAN tunnel across the DCI (Data Center Interconnect).

* Interconnect between SRX Series Devices:

* The exhibit shows SRX Series Chassis Clusters used as service devices (likely for firewalling or other security services). These devices need to be interconnected between the two data centers to ensure that VLANs can communicate effectively. The Blue VLAN needs to be stretched between DC and DC2 to maintain the same Layer 2 domain across both data centers.

Conclusion:

* Option B: Correct - Interconnecting the SRX Series devices will ensure the necessary service chaining, while stretching the Blue VLAN and adding a transit VNI for the Red and Green VLANs will enable the required communication across the data centers.

20. Frage

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