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Juniper JN0-683 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none">• EVPN-VXLAN Signaling: This section assesses an understanding of Ethernet VPN (EVPN) concepts, including route types, multicast handling, and Multiprotocol BGP (MBGP). It also covers EVPN architectures like CRB and ERB, MAC learning, and symmetric routing.
Topic 3	<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 4	<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.
Topic 5	<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.

Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q40-Q45):

NEW QUESTION # 40

You are using a single tenant data center with a bridged overlay architecture. In this scenario, how do hosts of the different virtual networks communicate with each other?

- A. using virtual gateway addresses configured on the spine
- B. using EVPN Type 5 routes
- C. off-fabric using an external device
- D. using anycast gateway addresses configured on the leaf devices

Answer: C

Explanation:

* Understanding Bridged Overlay Architecture:

* In a single-tenant data center using a bridged overlay architecture, virtual networks (VLANs) are typically isolated within the fabric, with traffic between these VLANs handled outside the fabric.

* Communication Between Different Virtual Networks:

* A. off-fabric using an external device: This is correct. In many bridged overlay architectures, communication between different virtual networks is handled off-fabric, often using an external router or firewall that connects the different VLANs. The fabric itself primarily provides Layer 2 connectivity within each VLAN, leaving inter-VLAN routing to be handled externally.

Data Center References:

* This design is common in smaller or simpler data center environments where a single tenant does not require complex on-fabric routing and prefers to handle inter-VLAN routing through dedicated devices.

NEW QUESTION # 41

Which three statements are correct about VXLAN control planes? (Choose three.)

- A. EVPN enables fast convergence and updates.
- B. Both multicast and EVPN can facilitate MAC learning.
- C. EVPN is inefficient and does not scale well.

- D. Multicast does not require as many resources.
- E. Multicast is not agile and requires manual VNI mapping.

Answer: A,B,D

Explanation:

EVPN enables fast convergence and updates: EVPN (Ethernet VPN) provides a more scalable and efficient control plane for VXLAN, enabling fast convergence and quicker updates for network changes. This is achieved through the use of BGP (Border Gateway Protocol) as the control plane protocol, which allows for efficient distribution of MAC and IP address information. Both multicast and EVPN can facilitate MAC learning: Both multicast and EVPN can handle MAC address learning in a VXLAN environment. In multicast-based VXLAN, MAC addresses are learned and distributed via multicast control messages, whereas in EVPN, MAC addresses are distributed via BGP advertisements, which are more efficient and scalable.

Multicast does not require as many resources: Multicast-based VXLAN control planes use standard multicast protocols like PIM (Protocol Independent Multicast) to forward traffic across the VXLAN fabric. While multicast has resource requirements for managing multicast groups, it does not require the same level of control-plane processing as EVPN, which uses BGP to handle MAC address advertisements. However, multicast can be less agile and may require additional configuration.

NEW QUESTION # 42

You want to convert an MX Series router from a VXLAN Layer 2 gateway to a VXLAN Layer 3 gateway for VNI 100. You have already configured an IRB interface. In this scenario, which command would you use to accomplish this task?

- A. set protocols ospf area 0.0.0.0 interface irb.100 passive
- B. set vlans VLAN-100 13-interface irb.100
- C. set protocols isis interface irb.100 passive
- D. set bridge-domains VLAN-100 routing-interface irb.100

Answer: D

Explanation:

* Scenario Overview:

* Converting an MX Series router from a VXLAN Layer 2 gateway to a VXLAN Layer 3 gateway involves transitioning the router's functionality from simply bridging traffic within a VXLAN segment to routing traffic between different segments.

* Key Configuration Requirement:

* IRB (Integrated Routing and Bridging) Interface: An IRB interface allows for both Layer 2 switching and Layer 3 routing. To enable routing for a specific VNI (VXLAN Network Identifier), the IRB interface must be associated with the routing function in the corresponding bridge domain.

* Correct Command:

* C. set bridge-domains VLAN-100 routing-interface irb.100: This command correctly binds the IRB interface to the bridge domain, enabling Layer 3 routing functionality within the VXLAN for VNI 100. This effectively transitions the device from operating solely as a Layer 2 gateway to a Layer 3 gateway.

Data Center References:

* This configuration step is essential when converting a Layer 2 VXLAN gateway to a Layer 3 gateway, enabling the MX Series router to route between VXLAN segments.

NEW QUESTION # 43

You are deploying an IP fabric with an oversubscription ratio of 3:1.

In this scenario, which two statements are correct? (Choose two.)

- A. The oversubscription ratio decreases when you add leaf devices.
- B. The oversubscription ratio increases when you remove leaf devices.
- C. The oversubscription ratio remains the same when you add leaf devices.
- D. The oversubscription ratio remains the same when you remove leaf devices.

Answer: B,C

Explanation:

Adding leaf devices increases the edge bandwidth (workload-facing ports), which lowers the oversubscription ratio because the amount of bandwidth facing the workloads increases relative to the fabric bandwidth.

However, the oversubscription ratio itself remains the same when you add leaf devices if the fabric design and spine capacity remain

unchanged because the ratio is a function of edge bandwidth to spine bandwidth. Adding leaf devices without changing spine devices keeps the ratio at the same level.

Removing leaf devices would increase the oversubscription ratio because the amount of edge bandwidth decreases while spine bandwidth remains the same.

NEW QUESTION # 44

Which three statements are correct about VXLAN control planes? (Choose three.)

- A. EVPN enables fast convergence and updates.
- B. Both multicast and EVPN can facilitate MAC learning.
- C. EVPN is inefficient and does not scale well.
- D. Multicast does not require as many resources.
- E. Multicast is not agile and requires manual VNI mapping.

Answer: A,B,D

Explanation:

* VXLAN Control Planes:

* VXLAN (Virtual Extensible LAN) uses different control planes to handle MAC learning and traffic forwarding. The control planes include multicast and EVPN (Ethernet VPN).

* Multicast and EVPN Comparison:

* Option B: Both multicast and EVPN can be used for MAC learning in a VXLAN environment.

Multicast is a more traditional approach, while EVPN is more advanced and supports distributed MAC learning.

* Option D: EVPN offers benefits such as fast convergence and rapid updates, making it more efficient and scalable for modern data center environments.

* Option E: Multicast does not require as many resources because it relies on traditional Layer 3 multicast mechanisms to distribute broadcast, unknown unicast, and multicast (BUM) traffic.

However, it can be less flexible and less scalable compared to EVPN.

Conclusion:

* Option B: Correct- Both control planes facilitate MAC learning.

* Option D: Correct- EVPN provides fast convergence and updates.

* Option E: Correct- Multicast is resource-efficient but less flexible.

NEW QUESTION # 45

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