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Juniper JN0-683 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 5	<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.

Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q61-Q66):

NEW QUESTION # 61

Click the Exhibit button.

```

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-neighbor;
      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;

```

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

Answer: A,B

Explanation:

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.

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.

NEW QUESTION # 62

Exhibit.



```
QFX10k-1
routing-instances {
  EVPN-VXLAN {
    instance-type vrf;
    interface irb.100;
    interface lo0.1;
    route-distinguisher 10.10.10.70:5000;
    vrf-target target:300:5000;
    protocols {
      evpn {
        ip-prefix-routes {
          advertise direct-nexthop;
          encapsulation vxlan;
          vni 5000;
        }
      }
    }
  }
}

QFX10k-2
routing-instances {
  EVPN-VXLAN
  instance-type vrf;
  interface irb.400;
  interface lo0.1;
  route-distinguisher 10.10.10.26:5000;
  vrf-target target:300:5000;
  protocols {
    evpn {
      ip-prefix-routes {
        advertise direct-nexthop;
        encapsulation vxlan;
        vni 5000;
      }
    }
  }
}
```

You have a sample configuration for connecting two sites through EVPN-VXLAN by exchanging IP prefix routes.

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

- A. The VNI should be unique on all devices for each customer site.
- B. The advertise direct-nexthop option enables the receiver to resolve the next-hop route using only information carried in the Type 2 route.
- C. The VNI must match on all devices for the same customer.
- D. The advertise direct-nexthop option enables the receiver to resolve the next-hop route using only information carried in the Type 5 route.

Answer: C,D

Explanation:

EVPN-VXLAN Configuration:

* The configuration provided in the exhibit shows an EVPN-VXLAN setup where IP prefix routes are exchanged between two sites. The advertise direct-nexthop option and the VNI (Virtual Network Identifier) settings are crucial in this context.

Advertise Direct-Nexthop:

* Option A: The advertise direct-nexthop option ensures that the next-hop route is resolved using only the information carried in the EVPN Type 5 route. Type 5 routes are used for IP prefix advertisement in EVPN, which is key to enabling Layer 3 interconnectivity between different VXLAN segments.

VNI Consistency:

* Option C: For the same customer across different devices, the VNI must be consistent. This consistency ensures that all devices can correctly map traffic to the appropriate VXLAN segment, maintaining seamless Layer 2 and Layer 3 connectivity.

NEW QUESTION # 63

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

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

Answer: B,C,E

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 # 64

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

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 # 65

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

Answer: A,B

Explanation:

An EVPN-signaled VXLAN can perform autodiscovery of VTEPs using BGP

EVPN uses BGP control plane to advertise MAC-to-VTEP mappings and perform VTEP autodiscovery, removing the need for multicast in the underlay.

An EVPN-signaled VXLAN is less resource intensive

Unlike multicast VXLAN, EVPN doesn't rely on flooding unknown traffic via multicast groups in the underlay, reducing bandwidth and CPU usage.

NEW QUESTION # 66

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