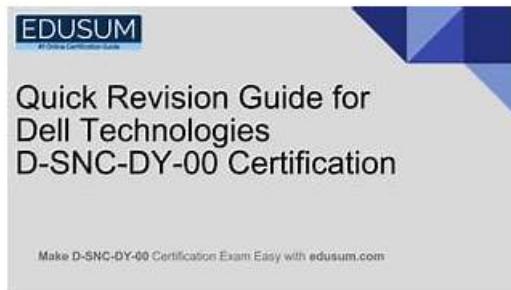


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## **EMC D-SNC-DY-00 Exam Syllabus Topics:**

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>SONiC Bundles: In this topic, your understanding of Enterprise SONiC bundles will be assessed. As a cloud engineer, you must be able to compare different SONiC bundles, demonstrating your expertise in selecting the appropriate bundle for various cloud environments. Mastery of this will ensure you can optimize network configurations effectively.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>SONiC Installation: Your proficiency in SONiC installation, upgrade, and downgrade methods will be tested in this Dell EMC D-SNC-DY-00 exam topic. You will need to install SONiC using both the ONIE manual and automatic methods. This topic measures your hands-on skills in managing SONiC installations efficiently.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>VXLAN: This topic focuses on your ability to manage VXLAN operations, including configuring and verifying BGP EVPN with both Asymmetric and Symmetric IRB. Understanding VXLAN is essential for enabling scalable and efficient cloud networks, making this topic critical to your D-SNC-DY-00 Exam Success.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>SONiC Configuration: This comprehensive topic evaluates your ability to administer and configure critical network components. You will need to manage port groups, configure management access, handle VLANs, and verify advanced features like Link Aggregation Groups and MC-LAG. Proficiency in these Dell EMC D-SNC-DY-00 exam areas is crucial for ensuring robust and scalable network operations.</li></ul>

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## EMC Dell SONiC Deploy Exam Sample Questions (Q41-Q46):

### NEW QUESTION # 41

What is an iBGP neighbor relationship?

- A. Two BGP neighbors have the same autonomous system numbers
- B. Two BGP neighbors share only private networks.
- C. Two BGP neighbors share L2VPN EVPN advertisements.
- D. Two BGP neighbors share only native BGP networks.

**Answer: A**

Explanation:

An iBGP (Internal Border Gateway Protocol) neighbor relationship is established between two BGP routers within the same autonomous system (AS). This relationship allows for the exchange of routing information within the AS, ensuring that internal routes are propagated correctly.

References:

\* Dell Technologies SONiC Routing Guide

\* BGP Configuration Guide

### NEW QUESTION # 42

Which network devices route unencapsulated user traffic in a symmetric IRB overlay network?

- A. Autonomous system boundary router and source VTEP
- B. Capability extended next hop router and leaf router
- C. Source VTEP and destination VTEP
- D. Leaf router and spine router

**Answer: C**

Explanation:

In a symmetric Integrated Routing and Bridging (IRB) overlay network, the Source Virtual Tunnel End Point (VTEP) and the Destination VTEP route unencapsulated user traffic. Symmetric IRB ensures that routing occurs at both the ingress and egress VTEPs, allowing for optimized traffic flow and efficient network operations.

References:

\* Dell Technologies SONiC documentation

\* VXLAN Configuration Guide

### NEW QUESTION # 43

Enterprise SONiC Switch 1 and Switch 2 are part of a symmetric VXLAN fabric in a data center environment.

Switch 1 has learned MAC addresses from its local VLANs.

What role does BGP EVPN play in this scenario?

- A. Enables efficient communication across the VXLAN fabric
- B. Distributes locally learned MAC addresses to Switch 2
- C. Establishes Layer 2 connectivity between Switch 1 and Switch 2

**Answer: B**

Explanation:

BGP EVPN (Border Gateway Protocol Ethernet VPN) is used in a VXLAN fabric to distribute MAC address reachability information between switches. In this scenario, Switch 1 uses BGP EVPN to advertise the locally learned MAC addresses to Switch 2. This distribution of MAC addresses enables the switches to build and maintain an efficient forwarding table, facilitating communication across the VXLAN fabric.

References:

- \* Dell Technologies SONiC documentation
- \* BGP EVPN Configuration Guide

**NEW QUESTION # 44**

Configure a VRF called "VrfGreen" and the static route in it to network 172.16.128.64/28 through next-hop 10.10.10.1. Set an administrative distance of 213.



**Answer:**

Explanation:

see the explanation for all step by step solution with all explanation.

Explanation:

Here are the steps to configure the VRF and the static route:

- \* Enter Configuration Mode:

sonic# configure terminal

- \* Create VRF "VrfGreen":

sonic(config)# ip vrf VrfGreen

- \* Configure the Static Route:

sonic(config)# ip route vrf VrfGreen 172.16.128.64/28 10.10.10.1 213

- \* Save Configuration:

sonic# write memory

Comprehensive Detailed Step by Step Explanation with References:

- \* Enter Configuration Mode:

\* Begin by entering the global configuration mode to make changes to the switch configuration.

- \* Create VRF "VrfGreen":

\* Use the command `ip vrf VrfGreen` to create a new VRF named "VrfGreen". This command sets up a new VRF instance which will isolate the routing table for this VRF from the global routing table and other VRFs.

- \* Configure the Static Route:

\* Use the command `ip route vrf VrfGreen 172.16.128.64/28 10.10.10.1 213` to configure the static route.

\* `ip route vrf VrfGreen` specifies that the route should be added to the "VrfGreen" VRF.

\* 172.16.128.64/28 is the destination network.

\* 10.10.10.1 is the next-hop IP address.

\* 213 is the administrative distance, which in this case is set to a non-default value to influence route preference.

- \* Save Configuration:

\* Save the configuration to ensure the changes persist after a reboot using the `write memory` command.

References:

- \* Dell Technologies Networking - SONiC

- \* Dell Enterprise SONiC Deployment Guide

These steps provide a comprehensive guide to configure a VRF and a static route within that VRF on a SONiC-based switch, ensuring the specific requirements for routing and administrative distance are met.

**NEW QUESTION # 45**

An administrator for a service provider uses this command on a switch:

```
sonic(config)# interface vxlan vtep-stacking
sonic(config-if-vxlan-vtep-stacking)# map vni 10010 vlan 100
```

What is the result of running the command?

- A. Maps the VLAN traffic that an SVLAN identifies to a VNI on a VTEP
- B. Maps the VLAN traffic that a TPID identifies to a VNI on a VTEP
- C. Maps the VLAN traffic that a CVLAN identifies to a VNI on a VTEP

**Answer: A**

Explanation:

The command `interface vxlan vtep-stacking` followed by `map vni 10010 vlan 100` maps the VLAN traffic that an SVLAN identifies to a VNI on a VTEP. In this context, SVLAN (Service VLAN) is being mapped to a VXLAN Network Identifier (VNI) for encapsulation and transport across the VXLAN tunnel.

References:

\* Dell Technologies SONiC documentation

\* VXLAN Configuration Guide

## NEW QUESTION # 46

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