Free Questions for D-SNC-DY-00

Shared by Mccoy on 04-10-2024

For More Free Questions and Preparation Resources

Question 1

What is ECMP?

Options:

A- A Layer 3 routing feature to forward traffic using multiple available paths

B- A routing protocol database filter supporting a maximum of four paths

C- A round-robin path distribution mechanism

D- A routing protocol with multipath support

Answer:

A

Explanation:

ECMP (Equal-Cost Multi-Path) is a Layer 3 routing feature that allows traffic to be forwarded using multiple available paths of equal cost. This improves bandwidth utilization and provides redundancy. ECMP is commonly used in modern networks to optimize the flow of traffic

and increase the resiliency of network connections.

Dell Technologies SONiC documentation

ECMP Configuration Guide

Question 2

Refer to the exhibit.

```
Leaf1# show ip route vrf Vrf-tenant1 bgp
Codes: K - kernel route, C - connected, S - static, B - BGP, O - OSPF
        > - selected route, * - FIB route, q - queued route, r - rejected route,
        # - not installed in hardware
Destination                 Gateway                   Dist/Metric   Uptime
-------------------------------------------------------------------------------
 B>*   192.168.50.102/32     via 10.10.10.2   Vlan60   20/0          02w3d12h
```

What type of route is shown?

Options:

A- Type 3 host route from external VTEP

B- Type 2 host route from another VTEP

C- Type 3 host route from another VTEP

D- Type 5 host route from another VTEP

Answer:

B

Explanation:

The exhibit shows a BGP EVPN route in a VXLAN environment. The route type can be determined based on the details provided. Type 2 routes in BGP EVPN are used to advertise MAC address reachability information between VTEPs (Virtual Tunnel End Points). The exhibit indicates a host route from another VTEP, which corresponds to a Type 2 route.

Dell Technologies SONiC documentation

BGP EVPN Configuration Guide

Question 3

Question Type: **MultipleChoice**

What does show interface breakout port slot/slot command display?

Options:

A- The Error/Debug status of the breakout of the port

B- The breakout modes available to that port

C- The In Progress/Complete status of the breakout of the port

D- The configuration of that port

Answer:

B

Explanation:

The show interface breakout port slot/slot command displays the breakout modes available for the specified port. Breakout modes determine how a single high-speed port can be split into multiple lower-speed ports, providing flexibility in network port configurations.

Dell Technologies SONiC Command Reference Guide

Port Breakout Configuration Guide

Question 4

Which protocol is used to perform an automated installation of Enterprise SONiC?

Options:

A- HTTP

B- SCP

C- SFTP

Answer:

A

Explanation:

The automated installation of Enterprise SONiC is typically performed using the HTTP protocol. During the Zero Touch Provisioning (ZTP) process, the switch retrieves configuration files and software images from an HTTP server, allowing for automated and streamlined deployments.

Dell Technologies SONiC documentation

ONIE User Guide

Question 5

Question Type: MultipleChoice

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?

Options:

A- Distributes locally learned MAC addresses to Switch 2

B- Establishes Layer 2 connectivity between Switch 1 and Switch 2

C- Enables efficient communication across the VXLAN fabric

Answer:

A

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.

Dell Technologies SONiC documentation

BGP EVPN Configuration Guide

Question 6

Question Type: **MultipleChoice**

Refer to the exhibit.

```
Leaf26# show bgp l2vpn evpn vni 410
 VNI: 410(known to the kernel)
  Type: L2
  RD: 10.0.2.26:41
  Originator IP: 10.10.10.26
  Originator External IP: 0.0.0.0
  Mcast group: 0.0.0.0
  Advertise-gw-macip: False
  Advertise-svi-macip: False
  Import Route Target:
   65026:410
  Export Route Target:
   65026:410
Leaf26#
```

The route distinguisher was autogenerated. Which VLAN is mapped to VNI410?

Options:

A- VLAN 410

B- VLAN41

C- VLAN 10

D- VLAN 26

Answer:

C

Explanation:

The route distinguisher (RD) in the exhibit is 10.0.2.26:41. The RD typically reflects the VNI and VLAN mapping configuration. Given that the VNI is 410 and the RD ends with :41, it implies that VLAN 10 is mapped to VNI 410.

Dell Technologies SONiC documentation

VXLAN Configuration Guide

Question 7

Question Type: **MultipleChoice**

What two methods can be used to upgrade or downgrade Enterprise SONiC?

Options:

A- Boot Loader

B- SONiC-CLI

C- MF-CLI

D- GRUB

Answer:

A, D

Explanation:

Enterprise SONiC can be upgraded or downgraded using:

Boot Loader (A): The boot loader can be used to select and load different versions of the SONiC firmware.

GRUB (D): GRUB (Grand Unified Bootloader) is another method used to manage and select different SONiC firmware versions during system boot-up.

Dell Technologies SONiC documentation

SONiC Upgrade Guide

Question 8

Which two additional Q-in-Q VLAN tunnel configuration steps must be followed if the provider network uses a VXLAN overlay?

Options:

A- Configure VLAN Translation.

B- Map the SVLAN traffic to a VNI.

C- Remove the CVLAN-to-SVLAN mapping.

D- Configure the BGP route-target and route-distinguisher.

Answer:

A, B

Explanation:

Configure VLAN Translation (A): VLAN translation is necessary to translate customer VLANs (CVLANs) to service VLANs (SVLANs) for Q-in-Q tunneling in a VXLAN environment.

Map the SVLAN traffic to a VNI (B): SVLAN traffic must be mapped to a VXLAN Network Identifier (VNI) for encapsulation and transport across the VXLAN overlay network.

Dell Technologies SONiC documentation

Question 9

Refer to the exhibit.

Eth 1/1 of SONiC-1 and Eth1/56 of SONiC-2 should be a routed link connecting the two Enterprise SONiC switches. No traffic is passing between them.

What is the cause of the failure?

Options:

A- An incorrect IPv6 address type was used for interface Eth1/56 of SONiC-2.

B- A spanning-tree is blocking the routed link.

C- IPv6 is not enabled on interface Eth 1/1 of SONiC-1.

D- There is a cable that is unplugged between SONiC-1 and SONiC-2.

Answer:

A

Explanation:

From the exhibit, it is evident that Eth1/56 on SONiC-2 is assigned a link-local IPv6 address (fe80::e7d:8aff:fecb

/64). Link-local addresses are not routable beyond the local network segment, which means they cannot be used to route traffic between SONiC-1 and SONiC-2. For routed links, global unicast addresses must be used.

Dell Technologies SONiC documentation

IPv6 Addressing Guide