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300-610
**Designing Cisco
Data Center
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Cisco Designing Cisco Data Center Infrastructure Sample Questions (Q157-Q162):

NEW QUESTION # 157

What can be implemented on Cisco Nexus 5600 Series Switches for link redundancy within a Fibre Channel fabric?

- A. SAN port channel
- B. vPC+
- C. LACP port channel
- D. E-Trunk

Answer: C

NEW QUESTION # 158

A company must introduce a scalable network automation tool to deploy, configure, and manage thousands of network device and service. The company servers already have been security-hardened and must not have any additional software installed on them. The security policy mandates the use of a secure communication protocol that support authentication and encryption for managing the servers. Which two automation tools must be used to meet these requirements? (Choose two.)

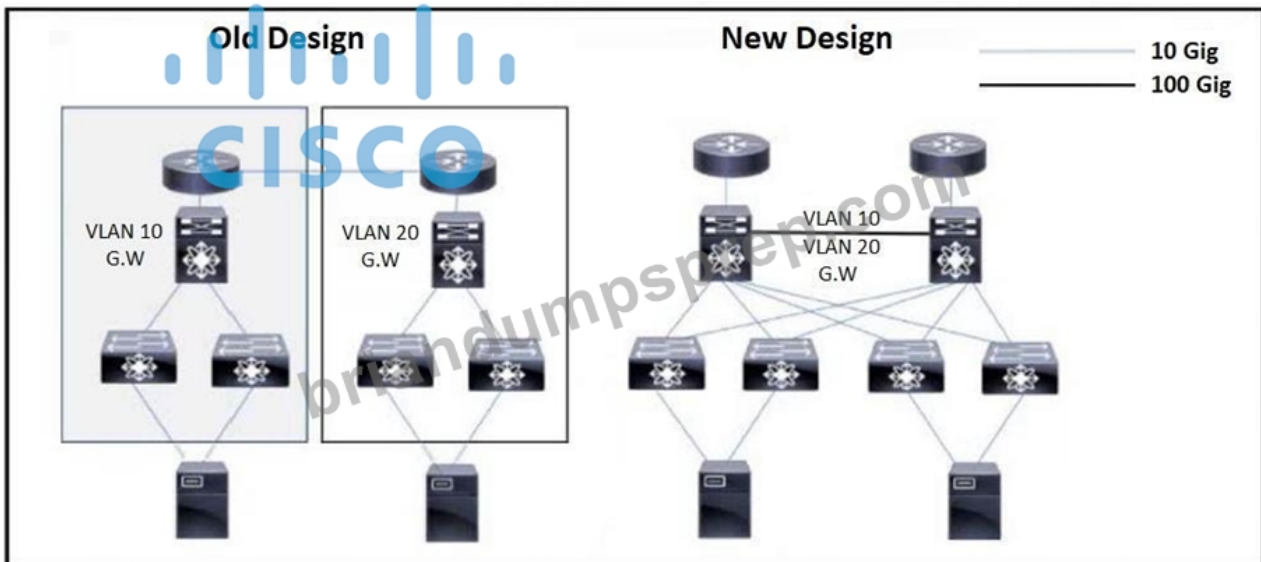
- A. Puppet
- B. Chef
- C. Ansible
- D. Saltstack
- E. CFEngine

Answer: A,D

NEW QUESTION # 159

Refer to the exhibit. An engineer is creating a new data center design for a customer. The design must support virtual applications, enhance network resilience, and meet these requirements:

- Extend Layer 2 across all network segments to support endpoint mobility.
 - Access switches will support up to 20 GB capacity for north-south and east-west traffic.
 - Provide fast convergence during link failures.
 - MAC address advertisement will not depend on the control plane.
- Which solution must the engineer include in the design between the access and distribution switches?



- A. vPC
- B. BGP-EVPN
- C. PVSTP
- D. DMVPN

Answer: A

Explanation:

vPC extends Layer 2 between switches with active-active forwarding, supports high throughput, has fast failure convergence, and relies on data plane learning (MAC advertisement not dependent on control plane protocols).

NEW QUESTION # 160

Which factor determines the choice of platform designing a Cisco HyperFlex infrastructure to support computer-aided design applications?

- A. network speed
- B. storage capacity
- C. processor count
- D. GPU support

Answer: B

Explanation:

<https://www.cisco.com/c/dam/en/us/products/collateral/hyperconverged-infrastructure/hyperflex-hx-series/whitepaper-c11-740243.pdf>

<https://www.cisco.com/c/dam/en/us/products/collateral/hyperconverged-infrastructure/hyperflex-hx-series/hx-220c-m5-specsheet.pdf>

NEW QUESTION # 161

An engineer finishes the initial set up of a VXLAN EVPN network. The engineer is asked to plan for connectivity that supports redundancy and extends multiple virtual routing and forwarding domains. The requirement is to use the same default gateway addressing across all leaf switches that belong to the VXLAN network. Which two solution must be used to meet these requirements? (Choose two)

- A. spanning tree protocol
- B. Inter-site network
- C. DC interconnect
- D. Distributed anycast gateway
- E. VRF-lite

Answer: C,D

Explanation:

https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst9300/software/release/16-12/configuration_guide/vxlan/b_1612_bgp_evpn_vxlan_9300_cg/configuring_evpn_vxlan_anycast_gateway.html

<https://www.cisco.com/c/en/us/products/collateral/switches/nexus-9000-series-switches/white-paper-c11-739942.html>

EVPN VXLAN Distributed Anycast Gateway

Distributed anycast gateway feature for EVPN VXLAN is a default gateway addressing mechanism that enables the use of the same gateway IP addresses across all the leaf switches that are part of a VXLAN network. This ensures that every leaf switch can function as the default gateway for the workloads directly connected to it. The feature facilitates flexible workload placement, host mobility and optimal traffic forwarding across the VXLAN fabric.

EVPN Multi-Site architecture allows the extension of Layer 2 and Layer 3 segments beyond a single site. Using EVPN Multi-Site architecture, you can extend Layer 2 VNIs to enable seamless endpoint mobility and address other use cases that require communication bridged beyond a single site. Use cases involving Layer 3 extension beyond a single site primarily require multitenant awareness or VPN services. With the multitenant capability in BGP EVPN and specifically in EVPN Multi-Site architecture, multiple VRF instances or tenants can be extended beyond a single site using a single control plane (BGP EVPN) and a single data plane (VXLAN).

EVPN Multi-Site architecture can also be used for DCI scenarios (Figure 3). As with the compartmentalization and scale-out within a data center, EVPN Multi-Site architecture was built with DCI in mind. The overall architecture allows single or multiple sites per data center to be positioned and interconnected with single or multiple sites in a remote data center. With seamless and controlled Layer 2 and Layer 3 extension through the use of VXLAN BGP EVPN within and between sites, the capabilities of VXLAN BGP EVPN itself have been increased. The new functions related to network control, VTEP masking, and BUM traffic enforcement are only some of the features that help make EVPN Multi-Site architecture the most efficient DCI technology.

NEW QUESTION # 162

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