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Designing Cisco Data Center Infrastructure (DCID)

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QUESTION 1

The management of the Cisco Nexus switches is provided over an isolated put-of-band network. The VDC feature is configured on the Cisco Nexus core switches. How is out-of-band management access provided for each VDC?

A. All the VDC have the same out-of-band IP address.

B. Each VDC has a dedicated out-of-band Ethernet management port.

C. Each VDC has a unique out-of-band IP address from the same IP subnet.

D. Each VDC has a unique out-of-band IP address from different IP subnets among VDCs.

Correct Answer: C

Virtual Device Contexts (VDC) allow you to carve out multiple virtual switches from a single physical Nexus switch

Each VDC is logically isolated from every other VDC on a switch. Therefore just like with physical switches, in order to trunk or route traffic between them, physical interfaces and cabling is required to connect two or more VDCs together

before this can happen.

A useful VDC feature is that the mgmt0 interface on the Supervisor can be assigned a different IP address by each VDC.

VDC management can be done via virtualizing the management port so that, each VDC will get logical instance of management port and where we have to provide the separate IP address to each Virtual management Port present in VDC

from the same subnet

QUESTION 2

A customer requires a tool to manage Cisco network hardware. The solution must use secure communication using a secure network protocol, support the use of declarative language to manage the state of resources, and periodically pull changes to the controlled nodes.
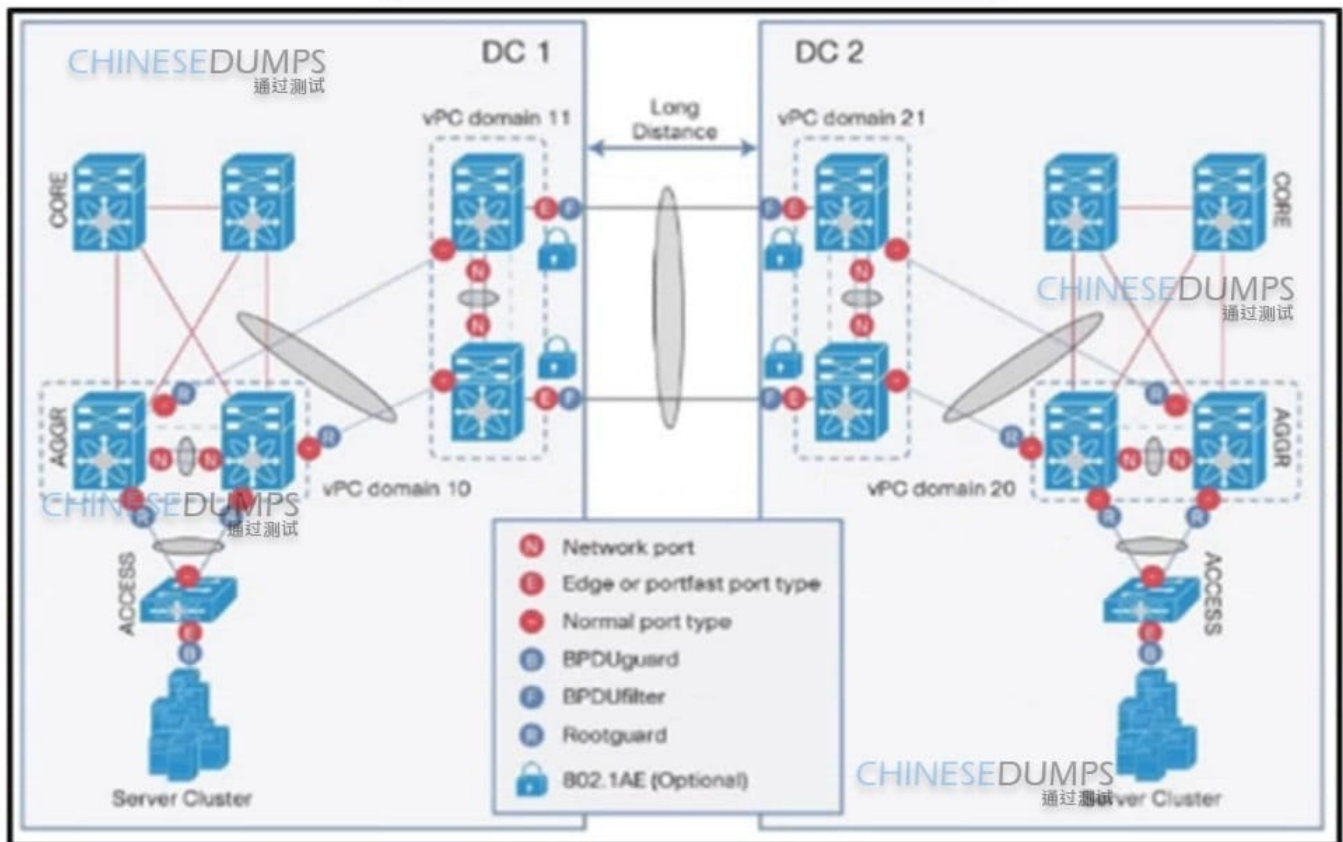
Which tool meets these requirements?

A. Ansible

B. SaltStack

C. Puppet

D. Nomir

Correct Answer: C

QUESTION 3

Refer to the exhibit.

The FCoE packets fail to be forwarded through the switch. What is the minimum MTU QoS requirement for the FCoE to work?

A. 9000 bytes

B. 2000 bytes

C. 2158 bytes

D. 2240 bytes

Correct Answer: C

The minimum MTU is 2158 bytes https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/qos/521_n1 _1/b_5k_QoS_Config_521N11/b_5k_QoS_Config_521N11_chapter_0110.html

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QUESTION 4

An engineer is designing a Multichassis EtherChannel topology in which two switches must appear as a single device to a third downstream switch? Which two technologies meet this requirement? (Choose two.)

A. HSRP

B. VSS

C. vPC

D. 802.1q

E. FEX

Correct Answer: BC

Reference: https://www.cisco.com/c/dam/en/us/products/collateral/switches/nexus-7000-series-switches/C07-572835-00_NX-OS_vPC_DG.pdf

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QUESTION 5

A network architect must design a large-scale Cisco SAN topology. The customer has a limited budget, so a design that provides use of resources is required. To support this requirement, the architect to share array ports, ISL, and line card bandwidth. The customer has also presented these additional considerations:

The customers plans to expand the network by 10% over the next two years. The customer\\'s policy requires physically separated infrastructure to support high availability. Which solution should be used to meet these requirements?

A. Collapsed-core

B. Mesh

C. Core-edge

D. Edge-core-edge

Correct Answer: C

Please review this question.

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