

Cisco.300-610.v2025-11-12.q317

Exam Code:	300-610
Exam Name:	Designing Cisco Data Center Infrastructure
Certification Provider:	Cisco
Free Question Number:	317
Version:	v2025-11-12
# of views:	1542
# of Questions views:	3798
https://www.dumpsfiles.com/files/Cisco/300-610/Cisco.300-610.v2025-11-12.q317	

NEW QUESTION: 1

An engineer requires a solution that achieves Ethernet traffic forwarding on all available paths from the hosts to the Cisco Nexus Fabric Extender and from the Fabric Extenders to the Cisco Nexus 5000 Series Switches. The NIC teaming from the Fabric Extender to a server should use an LACP EtherChannel. Which solution should be implemented to meet these requirements?

- A. Back-to-Back Virtual Port Channel
- B. Virtual Port Channel Plus (vPC+)
- C. Virtual Port Channel
- D. Enhanced Virtual Port Channel

Answer: [\(SHOW ANSWER\)](#)

NEW QUESTION: 2

A data center with over 4000 VLANs must be stretched to a disaster recovery site. The solution must support the migration of virtual machines to a disaster recovery site. To support the scalability of the solution, the internal fabric of the main site must be from the DCI network. The connecting network infrastructure uses a 10 Gbps link with PIM ASM supported, which will be replaced with a different overlay in the next 12 months. The solution must support head-end replication for broadcast, unknown unicast, and multicast traffic. Which solution must be used to meet these requirements?

- A. OTV
- B. LISP
- C. MPLS over GRE
- D. VXLAN Multi-Site

Answer: [D \(LEAVE A REPLY\)](#)

NEW QUESTION: 3

Which Cisco HyperFlex feature provides virtual machine-level cost scaling for desktop virtualization growth?

- A. HyperFlex Edge support
- B. encryption offload cards
- C. dedicated compute nodes
- D. fabric interconnects

Answer: [C \(LEAVE A REPLY\)](#)

Because of VDI VMs are very well deduplicated content, but VDI consumes compute resources.

NEW QUESTION: 4

A networking team must implement a new management solution for the network devices at their organization. The solution must meet these requirements:

- It must enable seamless monitoring, configuration, and troubleshooting while ensuring security and reliability.
- It must allow access to devices even if the production network is down.
- It must be easy to use and manage.

The company's budget is limited. Which implementation must the team perform to meet the requirements?

- A.** in-band management solution that leverages the existing production network infrastructure for management traffic
- B.** console-server solution to provide a dedicated management network
- C.** out-of-band management solution to provide redundancy and flexibility
- D.** remote-access VPN solution to provide secure access to the network devices

Answer: C (LEAVE A REPLY)

Out-of-band management (OOBM) provides remote access to network devices even if the production network is down, which meets the requirement of access during outages or production network failure. It uses a separate management network or interface that is independent of the main production network.

OOBM enables seamless monitoring, configuration, and troubleshooting by allowing administrators to remotely manage devices through dedicated interfaces such as console ports or serial connections. This improves troubleshooting and management even during system or network issues.

It enhances security and reliability by isolating management traffic from production traffic, reducing the attack surface and helping maintain business continuity during failures or cyberattacks.

OOBM solutions are generally easy to use and manage, often accessible via centralized management platforms, providing operational efficiency and reducing downtime and costs associated with onsite visits.

While potentially having a budget impact, OOBM can be cost-effective by reducing outage-related losses and operational expenses, fitting limited budgets better than complex, fully redundant production network management systems.

NEW QUESTION: 5

Which two configuration methods can be used to deploy QoS to Cisco MDS Series switches? (Choose two.)

- A.** multiple QoS policies that match multiple devices
- B.** VSAN-based QoS
- C.** zone-based QoS
- D.** FCoE VLAN-based QoS
- E.** multiple QoS policies that match individual devices

Answer: B,C (LEAVE A REPLY)

NEW QUESTION: 6

An engineer must deploy a Cisco HyperFlex system at two data centers. For redundancy reasons, the setup must achieve data protection in case of an entire site failure. The data must be available on both sites at all times to keep the recovery time objective to a minimum.

Which Cisco HyperFlex deployment model meets these requirements?

- A.** stretched cluster
- B.** edge with four nodes or more
- C.** standard with eight nodes

D. ROBO cluster

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 7

Refer to the exhibit.

Answer:

An engineer must deploy a SAN that meets these criteria:

* The upstream director switch must be configured to minimize the number of issued domain IDs

* The access switch must aggregate multiple locally connected ports not a single uplink that shares the same domain ID as the upstream switch.

Drag and drop the port types from the right onto the boxes on the left to create a SAN topology that meets these requirements Not all port types are used Port types are used more than once

NEW QUESTION: 8

Refer to the exhibit. A 4x10G Fibre Channel has been configured between SW1 and SW2 to carry backup traffic sourced to and from the SAN. An engineer noticed that 10G Link 1 is being used more heavily than the other links within the port channel. Which action must the engineer take on the two switches to ensure that the traffic uses all available links between SW1 and SW2?

A. Configure exchange-based load-balancing.

B. Configure dst-mac-based load-balancing.

C. Configure src-dst-ip-based load-balancing.

D. Configure flow-based load-balancing.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 9

An architect needs vendor-agnostic technology to orchestrate and automate a customer network with scripts. The technology must support running ad-hoc scripts from the CLI and support a deployment of scripts based on a large, readily available set of support libraries. Which technology must the architect choose?

A. Python

B. Puppet

C. Cisco Power Tool

D. Cisco Intersight

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 10

An enterprise is experiencing transmission errors and excessive delays over their WAN when backing up user workstations. A systems architect decided to resolve the problems by centralizing data storage and processing to within the confines of the data center. Which technology is most suitable to mitigate the issues?

A. VDI

B. VDC

C. QoS

D. RAS

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 11

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

A. E-Trunk

- B. LACP port channel
- C. vPC+
- D. SAN port channel

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 12

A Cisco UCS chassis with several blade servers, a pair of IOMs, and a pair of Cisco UCS Fabric Interconnects are installed in a data center.

Which two high-availability architectures are recommended between the IOMs and fabric interconnects? (Choose two.)

- A. IOM is connected to the fabric interconnect that is acting as fabric A. and IOM B is connected to the fabric interconnect that is acting as fabric B.
- B. Straight and cross-connect links should be used between the IOMs and fabric interconnects to offer higher availability.
- C. Any combination of one to eight links are supported to be used between each IOM and fabric interconnect.
- D. The IOMs are connected with multiple straight and cross-connect links toward a pair of nonclustered fabric interconnects.
- E. One, two, four and eight links are supported to be used between each IOM and fabric interconnect.

Answer: A,C ([LEAVE A REPLY](#))

NEW QUESTION: 13

Drag and drop the feature descriptions from the left onto the correct UCS Fabric Interconnect modes on the right.

Answer:

NEW QUESTION: 14

An engineer must connect an existing Cisco Fabric Interconnect to an IP-based storage array. The connection be a channel made directly between the fabric interconnect expansion module and the storage array. The engineer must also consider that the environment is running FCoE for storage and uses QoS to prioritize traffic. Which port type should be used to meet these requirements?

- A. Network
- B. Uplink
- C. Appliance
- D. server

Answer: C ([LEAVE A REPLY](#))

Reference:

NEW QUESTION: 15

Drag and drop the configurations from the left onto the correct policies on the right.

Answer:

NEW QUESTION: 16

Refer to the exhibit.

The Cisco Nexus Series Switch with hostname Nexus! is the default gateway for server A and server B Both servers must have reachability to the internet; however, server A internet traffic must pass through the firewall for deep packet inspection. Also, the firewall must inspect any communication between server A and server B.

Which solution must be applied to separate the data plane path for server A and server B?

- A. VLAN
- B. VRF

- C. VDC
- D. VXLAN

Answer: B (LEAVE A REPLY)

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NEW QUESTION: 17

An engineer is designing a Cisco 7000 Series disaster recovery site using the data center interconnect solution to provide gateway redundancy and needs to ensure that devices use gateways in their own data centers.

Which design approach should be used to accomplish this goal?

- A. CFS localized to its own data center
- B. vPC localized to its own data center
- C. STP localized to its own data center
- D. FHRP localized to its own data center

Answer: (SHOW ANSWER)

NEW QUESTION: 18

The Cisco UCS environment must be connected to an existing SAN network that consists of several Cisco MDS 9000 Series Switches added to increase storage density. The solution must not exhaust the SAN network from the list of available domain IDs after connecting. Most of the SAN traffic must be mapped from the Cisco UCS blades to a specific group of the fabric interconnect ports. Which configuration must be deployed to meet these requirements?

- A. Static Pinning and UCS Fabric Interconnect in Fibre Channel End Host Mode
- B. Dynamic Pinning and UCS Fabric Interconnect in Fibre Channel End Host Mode
- C. Static Pinning and UCS Fabric Interconnect in Fibre Channel Switching Mode
- D. Dynamic Pinning and UCS Fabric Interconnect in Fibre Channel Switching Mode

Answer: (SHOW ANSWER)

NEW QUESTION: 19

Which type fields can an engineer use to identify an iSCSI participant? (Choose two.)

- A. type
- B. preshared key
- C. port number
- D. identifying tag
- E. hostname

Answer: C,E (LEAVE A REPLY)

Reference: <https://en.wikipedia.org/wiki/iSCSI>

NEW QUESTION: 20

Refer to the exhibit. A Cisco engineer is planning a data migration job in heterogeneous SANs where the existing and new storage devices for the migration are already connected to the MDS switches. All paths from the SSM to the storage-connected switch are going through the Cisco fabric. The setup is with active/active arrays and multiple LUN sets. What is the best approach to copy the LUN sets to the new location?

- A. Create two data migration jobs, and add two storage ponds in each job.
- B. Enable synchronous replication for the new storage array.
- C. Grant access to all servers to the existing data sets.
- D. Add all paths Fabric-A zones to Fabric-B zones.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 21

An international corporation migrates its primary and secondary data centers to Cisco ACI. The new architecture must include a disaster recovery solution for critical applications in the primary data center with these requirements:

The secondary data center hosts dedicated workloads, which must remain isolated from the primary data center.

Critical applications must have both Layer 3 and Layer 2 connectivity between data centers.

The ACI policy must be consistent across the data centers.

Flooding between the data centers must be restricted to specific VLANs.

Which solution must be used to accomplish these goals?

- A. Deploy a pair of ACI Remote Leafs in the secondary data center.
- B. Implement the two data centers into an ACI Multi-Site solution.
- C. Implement Cisco ACI using a Multi-Pod architecture.
- D. Deploy two independent ACI fabrics and use LISP for L3 mobility.

Answer: (SHOW ANSWER)

NEW QUESTION: 22

A company has several data centers with hundreds of Cisco UCS blade chassis. A network consultant plans to active Cisco Discovery Protocol to the servers to facilitate Layer 1 troubleshooting. For security reasons, the company wants to restrict the servers from sending different MAC addresses to the fabric interconnect after the MAC address from the first packet is learned. Which two policies be modified to support this design?

(Choose two.)

- A. Pin Group Policy
- B. Network Control Policy
- C. vNIC Policy
- D. vNIC Template Policy
- E. Ethernet Adapter

Answer: B,D ([LEAVE A REPLY](#))

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Network-Mgmt/4-0/b_UCSM_Network_Mgmt_Guide_4_0/b_UCSM_Network_Mgmt_Guide_4_0_chapter_01010.html

<https://jeremywaldrop.wordpress.com/2010/05/03/how-to-enable-cdp-on-cisco-ucs-vnics/>

NEW QUESTION: 23

An engineer must logically partition two Cisco Nexus 7000 Series Switches into two environments called Test_39919596 and Production_59423879. The environments must use only F2-Series line cards and be limited to a maximum of 265 port-channels.

Which Cisco Nexus feature must be used?

- A. VRF
- B. vPC
- C. vFC
- D. VDC

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 24

Refer to the exhibit. Two Cisco Nexus 9000 Series Switches exchange OSPF routing information with R1.

Which action accomplishes this goal?

- A. Add peer-gateway under vPC interface link.
- B. Add peer-gateway under vPC domain.
- C. Add layer3 peer-router under vPC domain.
- D. Add layer3 peer-router under vPC interface link.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 25

An engineer installs a B-Series server in a Cisco UCS chassis that contains a pair of UCS-IOM-2208XP I/O modules. The full bandwidth of the I/O module must be utilized.

Which two elements should be used in this environment? (Choose two.)

- A. four twinax cables from each I/O module to each fabric interconnect
- B. Cisco UCS VIC 1225
- C. eight twinax cables from each I/O module to each fabric interconnect
- D. Cisco UCS M81KR
- E. Cisco UCS VIC 1280

Answer: ([SHOW ANSWER](#))

2208 has 8 uplinks. VIC 1225 only works on C-Series UCS. M81KR has only 2x10G ports. VIC 1280 has 8x10G ports.

<https://www.connection.com/product/cisco-vic-1280-dual-40gb-capable-2nd-gen-virtual-interface-card/ucs-vic-m82-8p/13785476>

NEW QUESTION: 26

Drag and drop the components from the left onto the descriptions on the right that indicate what occurs to Fibre Channel fabric when that component fails.

Answer:

NEW QUESTION: 27

A network architect designs a high-availability architecture for the Cisco UCS Fabric interconnects that installed in a data center. The architecture must support clustering and redundancy. Which architecture meets these requirements?

- A. dual connections from port L1 to L1 and one connection from port L1 to L1 with twinax cables
- B. dual connections from port L1 to L1 and one connection from port L2 to L2 with Ethernet cables
- C. dual connections from port L1 to L2 and one connection from port L2 to L1 with Ethernet cables dual
- D. dual connections from port L1 to L2 and one connection from port L2 to L1 with twinax cables

Answer: ([SHOW ANSWER](#))

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/1-0-2/b_GUI_Config_Guide/GUI_Config_Guide_chapter4.pdf

NEW QUESTION: 28

An engineer is operating data center environment that hosts data-intensive financial applications. The applications are mostly processing HTTP/HTTPS data with large data segments, which results in a CPU contention due to the significant network processing.

Which set of the Ethernet adapter policies must be selected to resolve the issue?

A. Option A

B. Option B

C. Option C

D. Option D

Answer: B ([LEAVE A REPLY](#))

Reference: https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Network-Mgmt/4-0/b_UCSM_Network_Mgmt_Guide_4_0/b_UCSM_Network_Mgmt_Guide_4_0_chapter_01010.html

NEW QUESTION: 29

Refer to the exhibit.

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. DVSTB

B. vPC

C. BGP-EVPN

D. DMVPN

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 30

An engineer must interconnect two geographically separated data centers. The service provider offers a Layer 2 Metro Ethernet link. The strict security policy requires that the information that is shared between two sites must be sent encrypted. The application deployed between two sites requires a line-rate throughput regardless of the packet size and speed.

Which solution meets these requirements?

A. L2TPv2

B. IPsec

C. MACsec

D. L2TPv3

Answer: C ([LEAVE A REPLY](#))

<https://www.cisco.com/c/dam/en/us/td/docs/solutions/Enterprise/Security/MACsec/WP-High-Speed-WAN-Encrypt-MACsec.pdf>

NEW QUESTION: 31

An engineer must build a VXLAN flood-and-learned network. The customer requires the solution to be based on the IETF documented practice in RFC 7348. The solution must use broadcast, unknown unicast, and multicast (BUM) and include the efficient BUM and short BUM replication modes that use only shared trees. Which technology meets these requirements?

- A. PIM SSM
- B. PIM sparse mode
- C. MVPN
- D. Bidirectional PIM

Answer: D ([LEAVE A REPLY](#))

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NEW QUESTION: 32

A storage administrator receives reports of network delays when database software attempts to access the storage array. The virtual machines that host the database software are installed on different rack servers connected to the Cisco UCS Fabric Interconnect domain. The existing SAN switches are connected to the Fabric Interconnects using two 8 Gb port-channel interfaces to connect the storage array. The storage administrator has decided to deploy iSCSI storage with four 10 Gbps interfaces connected to the Cisco UCS Fabric Interconnects.

Which deployment type resolves the problems with storage contention?

- A. iSCSI storage with Cisco UCS Fabric Interconnect using an appliance port
- B. iSCSI storage appliance on Cisco UCS Fabric Interconnect uplink trunk port
- C. iSCSI storage with Cisco UCS Fabric Interconnect in the virtual port-channel mode
- D. iSCSI storage appliance on Cisco UCS Fabric Interconnect in the storage end-host mode

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 33

A customer must install a new Hyperflex Stretched cluster in two sites. Low latency and predictable high performance are the top priorities for this setup due to the extensive usage of data-intensive applications across the cluster.

Which HyperFlex storage solution is recommended to meet these requirements?

- A. All-HDD
- B. All-Flash
- C. All-SAN
- D. Hybrid

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 34

Refer to the exhibit. An engineer must migrate the current topology to a topology that provides more speed, less latency, and support for software-define networks. The new topology has these requirements:

- separation into core, aggregation, and access routers
- varied server-to-server latency, depending on the path used

- support for extending the Layer 3 domain by combining access and aggregation routers

Which design topology meets these requirements?

- A. core-edge
- B. three-tier
- C. spine-and-leaf
- D. flood-and-learn

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 35

A failure occurs on the network between two BFD and OSPF neighbors. Drag and drop the protocol actions from the left into the correct order on the right.

Answer:

NEW QUESTION: 36

Refer to the exhibit. A Cisco engineer is configuring a FlexPod data center for SAP with Cisco ACI, Cisco UCS Manager 4.0. and Net AppAFFA-Series. All systems and fabric links feature redundancy and provide end-to-end high availability. After the engineer sets the needed VLANs on the NetApp controller ports and adds them to the data broadcast domain, the engineer must make the storage disks visible for the UCS hosts Which action must be taken on the UCS to accomplish this task?

- A. Provide a storage virtual machine.
- B. Enable HTTPS access on the servers.
- C. Configure ION pools for ISCSI boot.
- D. Create aggregates in ONTAP.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 37

An engineer must design a solution to divide the workload across two different data centers and achieve redundancy in case of the failure of either data center.

Which solution must the engineer choose?

- A. single Cisco HyperFlex standard cluster
- B. Cisco Hyperflex edge cluster
- C. single Cisco HyperFlex stretched cluster
- D. Cisco Hyperflex ROBO cluster

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 38

A SAN fabric is built between a pair of Cisco MDS 9000 Series Switches. The requirement is for the ISL to use the VSAN ID to toward traffic from multiple VSANs across the same physical link. Additionally, the Fibre Channel trace feature must be supported. Which ISL interface parameters are required to meet these requirements?

- A. Option B
- B. Option A
- C. Option D
- D. Option C

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 39

An engineer is expanding an existing iSCSI environment and must choose an addressing scheme. When checking one of the devices, the engineer discovers this target device naming used:

{prefix}.2019-01.com.acme123:00.ffd0cb21.bcb392817521

Which addressing scheme was used in the environment?

- A. Network Address Authority
- B. Extended Unique Identifier
- C. iSCSI Qualified Name
- D. Fibre Channel ID

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 40

A Cisco UCS chassis with several blade servers, a pair of IOMs, and a pair of Cisco UCS Fabric Interconnects are installed in a data center.

Which two high-availability architectures are recommended between the IOMs and fabric interconnects?

(Choose two.)

- A. The IOMs are connected with multiple straight and cross-connect links toward a pair of nonclustered fabric interconnects.
- B. One, two, four and eight links are supported to be used between each IOM and fabric interconnect.
- C. Straight and cross-connect links should be used between the IOMs and fabric interconnects to offer higher availability.
- D. IOM is connected to the fabric interconnect that is acting as fabric A. and IOM B is connected to the fabric interconnect that is acting as fabric B.
- E. Any combination of one to eight links are supported to be used between each IOM and fabric interconnect.

Answer: (SHOW ANSWER)

NEW QUESTION: 41

A network engineer needs to configure a high availability feature for a data center that uses a Cisco Nexus 7700 Series Switch that is configured with dual supervisors. The feature must meet these requirements:

- * Network resilience must be ensured.
- * Network instability for Layer 3 external routing protocols must be reduced.
- * Neighbors must be notified when the control plane is restarting.
- * Traffic must still be forwarded to peers while neighbor relationships are restarting.

What should be used to meet these requirements?

- A. BFD
- B. NSF
- C. NSR
- D. graceful restart

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 42

A set of virtual machines must be live migrated from a data center to a disaster recovery site. The data center and disaster recovery sites are connected through an Inter-Pod Network topology.

The gateway address of the virtual machine is the same across the data center and disaster recovery. Which Cisco Nexus feature supports this requirement?

- A. FabricPath
- B. VXLAN EVPN
- C. FHRR

D. VPLS

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 43

A company runs mission-critical infrastructure in a single data center. Due to business growth, it plans to open more data centers in the coming years. A network engineer is asked to recommend a network technology for data center interconnection that allows scalability and seamless VM mobility while providing maximum security and fault isolation between data centers.

Which technology must be used to meet these requirements?

A. TrustSec

B. CloudSec

C. UDLD

D. OTV

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 44

An engineer must design a solution with storage reachability between too physical servers and a storage array.

The storage array connectivity is to a SAN switch that is limited to 46 ports. Which topology meets the requirements without adding more MOS switches?

A. FCIP between the servers and Lite ToR switches that passes the Fibre Channel traffic to the MOS switches

B. VXLANs between the servers and the ToR switches that passes the FCoE traffic to the MDS switches

C. FCoE between the servers and the ToR switches that passes the Fcoe Channel traffic to the MDS switches

D. iSCSI between the servers and the ToR switches that passes the FCoE traffic to the MDS switches

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 45

An engineer is experiencing performance issues on a Cisco UCS blade server. The B-series blade server contains four CPUs, most of which are idle. The engineer notices that the CPU is suffering from too many requests sent by the NIC. Additionally, the number of queues appears to be insufficient and only a single CPU is processing the network traffic. Which policy must be used to alleviate these issues?

A. Ethernet adapter

B. vNIC placement

C. LAN connectivity

D. Dynamic vNIC connection

Answer: A ([LEAVE A REPLY](#))

https://www.cisco.com/en/US/docs/unified_computing/ucs/sw/gui/config/guide/141

[/UCSM_GUI_Configuration_Guide_141_chapter19.html](#)

Ethernet adapter policy is the only policy that is having configuration that is related to CPU.

NEW QUESTION: 46

An engineer seeks a solution to retrieve routing information from Cisco Nexus switches. The data must be exported to a web application in a JSON or XML data format for monitoring and must be encrypted during transmission. The solution must not require extensive knowledge to support and should be simple to implement.

Which technology accomplishes these goals?

A. Cisco Tetration

B. Python scripts

- C. streaming telemetry
- D. NX-API

Answer: D ([LEAVE A REPLY](#))

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NEW QUESTION: 47

A network architect wants to automate data center LAN configuration by use of Kubernetes, aligned with Cisco best practices for underlay and overlay provisioning. The automation must be able to operate in high-availability mode with active/active operation between hosts in dual data centers. Which configuration approach must the architect choose?

- A. Cisco Nexus Dashboard Fabric Controller
- B. Cisco OpFlex
- C. OpenFlow
- D. APIC-EM CLI

Answer: (SHOW ANSWER)

NEW QUESTION: 48

Refer to the exhibit. Due to power limitations at the customer data center, the engineering team must decommission one of the modular switches. In the new design, the customer must ensure that the OSPF process is fully protected on the remaining switch and minimize OSPF flapping in case of any module failure. Which solution fulfills the requirements for the new design?

- A. LSA aging timer change
- B. OSPF area separation
- C. graceful restart
- D. routing summarization

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 49

Drag and drop the feature descriptions from the left onto the correct UCS Fabric Interconnect modes on the right.

Answer:

NEW QUESTION: 50

An engineer must interconnect two data centers to support the dynamic virtual machine migration. The data centers are currently interconnected using an IPv4 network. However, the data plane encapsulation of the underlay network is expected to change next year. To meet the VM migration requirement, the solution must track MAC route changes, update all other remote devices simultaneously and prevent excessive MAC flapping with broadcast and unicast traffic loops. The company must also use networking equipment from different manufacturers to prevent vendor-locking. Which solution meets these requirements?

- A. EoMPLS
- B. OTV
- C. EVPN
- D. VXLAN

Answer: C ([LEAVE A REPLY](#))

EVPN is a modern, standards-based control plane solution that efficiently manages MAC address learning and distribution across data centers, replacing older flood-and-learn mechanisms. It uses BGP signaling to advertise MAC routes, enabling simultaneous updates of remote devices and consistent MAC learning, effectively preventing MAC flapping and loops.

EVPN supports seamless Layer 2 extension required for VM migration between data centers while operating over any IP-based underlay (IPv4 or IPv6) and can adapt to different data plane encapsulations without losing MAC route visibility and synchronization.

Being an open standard, EVPN implementations are available across multiple vendors, preventing vendor lock-in.

EVPN paired often with VXLAN encapsulation provides a scalable, efficient Data Center Interconnect solution.

NEW QUESTION: 51

A network consultant evaluates the Cisco UCS Fabric Interconnect SAN configuration, which must meet these requirements:

All traffic must pass over the upstream device for switching and domain IDs must be preserved in the fabric.

Each server should be pinned to one designated upstream interface and for the traffic to pass through the pinned port.

Which Fabric Interconnect SAN operational mode meets these requirements?

- A. Fibre Channel
- B. end host
- C. switch
- D. NPIV

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 52

A network engineer needs to design Layer 2 connectivity for a subnet between two data centers using VXLAN with Cisco Nexus switches. The engineer must ensure seamless host mobility and optimal first-hop routing. Which gateway MAC attribute must be synchronized across both data centers?

- A. HSRP
- B. VRRP
- C. anycast
- D. multicast

Answer: ([SHOW ANSWER](#))

Cisco's VXLAN Anycast Gateway uses the same virtual MAC address on the IRB interfaces in both data centers. Synchronizing that Anycast MAC ensures that hosts in either site always see the same default-gateway MAC - preserving ARP entries during VM moves and providing optimal, local first-hop routing.

NEW QUESTION: 53

Drag the requirements from the left onto the correct policy types on the right.

Answer:

NEW QUESTION: 54

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 customer's 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

Answer: C (LEAVE A REPLY)

Please review this question.

NEW QUESTION: 55

A company needs a solution to virtualize their legacy desktop computers. The solution must be highly resilient and able to withstand the loss of a data center site. Each compute node requires a minimum of 20 disk drives.

Which solution meets these requirements?

A. *dedicated virtual machine per hypervisors for each user in a centralized data center

*solution based on Cisco HX220 compute nodes

B. *data center site with a strict security policy that provides access to users using a bespoke software client

*solution based on Cisco HX240 compute nodes

C. *thin client installed at each user's end station with a separate profile to retrieve sensitive data using the RDP protocol

*solution based on Cisco HX220 compute nodes

D. *virtual desktop infrastructure solution installed in multiple data centers that are close to the end users

*solution based on Cisco HX240 compute nodes

Answer: D (LEAVE A REPLY)

NEW QUESTION: 56

A customer is implementing a business continuity solution for the current data centers. The new location must mitigate the impact of a disaster in any existing data centers by providing an acceptable level of service. The solution must support:

- fully segregated Layer 2 and 3 fault domains

- low or no human intervention for service restoration

- medium to high RPO/RTO for a subset of applications

- asynchronous storage replication for application data

Which disaster recovery solution must the customer select to meet these requirements?

A. partially equipped infrastructure facility for on-demand activation

B. cold infrastructure facility with basic infrastructure

C. identical infrastructure facility ready to provide service

D. mirrored inactive infrastructure facility with fully stretched resources

Answer: C (LEAVE A REPLY)

NEW QUESTION: 57

A failure occurs on the network between two BFD and OSPF neighbors. Drag and drop the protocol actions from the left into the correct order on the right.

Answer:

NEW QUESTION: 58

An engineer must use OTV for Layer 2 connectivity between data centers to support virtual machine mobility between the customer sites. To support this requirement, the engineer must ensure the existence of the same default gateway on both sites. Additionally, the operations team reports high bandwidth utilization on site A and wants to optimize the outbound traffic flows to use a local DC exit point.

Which feature must be used to meet these requirements?

- A. ARP filter
- B. FHRP filter
- C. data group
- D. control group

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 59

Drag and drop the feature descriptions from the left onto the correct UCS Fabric Interconnect modes on the right.

Answer:

NEW QUESTION: 60

Cisco FabricPath is implemented in a data center. You plan to implement anycast HSRP. What is an advantage of anycast HSRP as compared HSRPv2?

- A. Up to six HSRP gateways can forward traffic simultaneously.
- B. Up to four HSRP gateways can forward traffic simultaneously.
- C. HSRP gateways use BFD for faster failure detection
- D. An HSRP group can be secured by using MD5.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 61

Which address pool is used when a vHBA template is created?

- A. MAC
- B. WWPN
- C. IP
- D. UUID

Answer: ([SHOW ANSWER](#))

Section: Automation Design

Explanation/Reference: https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/2-1/

[b_UCSM_GUI_Configuration_Guide_2_1/b_UCSM_GUI_Configuration_Guide_2_1_chapter_011010.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/2-1/b_UCSM_GUI_Configuration_Guide_2_1/b_UCSM_GUI_Configuration_Guide_2_1_chapter_011010.html)

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NEW QUESTION: 62

A large financial institution hosts all customer data in a critical data center with a single physical location Top management is concerned about the risk of a single-site failure.

Dot budget is also an issue, so the network engineering team is working to implement a cost-effective redundancy strategy with a second data center.

The new data center must use a three-tier design identical to the existing data center. Business requirements dictate that all data must always be accessible from anywhere in the world, even if a single site fails. The team purchased two Cisco Nexus 7700 Series Switches and four Catalyst 8000 Series Routers. Which action must the team take to accomplish the goal?

- A. Implement FabricPath on the Catalyst 8000 routers in both data centers to provide full redundancy in the event of a disaster.
- B. Implement HSRP with the Nexus 7700 Series devices to provide gateway redundancy to ensure seamless failover between the Nexus switches.
- C. Implement OTV with the Nexus 7700 Series devices to extend Layer 2 connectivity between the two data centers and provide disaster-recovery capabilities.
- D. Implement NVGRE on the Catalyst 8000 routers to create a DCI communication channel between the data centers and provide Layer 2 extension capabilities.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 63

An architect must automate routine tasks within a data center. The data center exclusively uses Cisco Nexus Series Switches. The networking team lacks proper programming knowledge and prefers an automation solution that leverages NXOS commands. Any configuration change must use HTTPS for transport due to a security compliance requirement.

Which solution must the architect choose?

- A. NX-API
- B. Python-API
- C. Terraform
- D. Chef

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 64

Refer to the exhibit.

A high-availability setup for iSCSI is designed with the host running iSCSI software. Each storage port on the MDS exports the same two Fibre Channel target ports with different iSCSI target names. In this design, how many iSCSI sessions are created from the host so that recovery occurs if any component fails?

- A. 2
- B. 3
- C. 4
- D. 5

Answer: C ([LEAVE A REPLY](#))

https://www.cisco.com/en/US/docs/storage/san_switches/mds9000/sw/rel_3_x/configuration/guides/fm_3_2/ciscsi.html

NEW QUESTION: 65

Which type of encoding is used on 8-Gbps links as compared to 10-Gbps links?

- A. 8-Gbps links use 64B/66B encoding, and 10-Gbps links use 8B/10B encoding.
- B. 8-Gbps links use 8B/10B encoding, and 10-Gbps links use 64B/66B encoding.
- C. 8-Gbps links and 10-Gbps links use 8B/10B encoding.
- D. 8-Gbps links and 10-Gbps links use 64B/66B encoding.

Answer: ([SHOW ANSWER](#))

Section: Compute Design

Explanation/Reference: https://www.iol.unh.edu/sites/default/files/knowledgebase/10gec/10GbE_CI49.pdf

NEW QUESTION: 66

When planning to deploy a load-balancing service as a managed node, which ACI configuration must be included?

- A. ITD
- B. Layer 4 to Layer 7 device package
- C. BGP ECMP
- D. inline load-balancing device

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 67

An engineer is deploying a Fabric Interconnect within a data center SAN over a Fiber Channel link in end-host mode. The hosts are connected through multiple vHBAs, each of which has been hard-pinned to a specific Fibre Channel uplink. What happens to the vHBAs if the Fibre Channel uplink port fails?

- A. The vHBAs go down and remain down until the fabric interconnect mode is changed to switch mode.
- B. The vHBAs remain operational because SAN pin groups are ignored in end host mode.
- C. The vHBAs go down and remain down until the uplink is restored because the system cannot perform repinning.
- D. The system performs repinning to an active uplink, and the vHBAs remain operational.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 68

Which multicast rendezvous point redundancy mode is valid for Bidirectional PIM?

- A. Embedded RP
- B. Phantom RP
- C. MSDP
- D. PIM anycast RP

Answer: D ([LEAVE A REPLY](#))

Section: Network Design

Explanation/Reference: https://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/ip-multicast/whitepaper_c11-508498.html

NEW QUESTION: 69

Refer to the exhibit.

Answer:

An engineer must deploy a SAN that meets these criteria:

- * The upstream director switch must be configured to minimize the number of issued domain IDs
- * The access switch must aggregate multiple locally connected ports not a single uplink that shares the same domain ID as the upstream switch.

Drag and drop the port types from the right onto the boxes on the left to create a SAN topology that meets these requirements Not all port types are used Port types are used more than once

NEW QUESTION: 70

Drag and drop the components from the left onto the descriptions on the right that indicate what occurs to Fibre Channel fabric when that component fails.

Answer:

NEW QUESTION: 71

Refer to the exhibit.

An engineer must assign multiple Fibre Channel IDs to a single port channel. Which two features must be enabled this goal? (Choose two.)

- A. SAN Pin Groups on the Cisco UCS Fabric Interconnects.
- B. NPV feature on the Cisco MDS Series.
- C. end-host mode feature on the Cisco UCS Fabric Interconnects
- D. NPIV feature on the Cisco MDS Series
- E. Smart Zoning feature on the Cisco UCS Fabric Interconnects

Answer: B,D (LEAVE A REPLY)

Section: Compute Design

NEW QUESTION: 72

Drag and Drop Question

Drag and drop the data center technologies from the left onto the correct descriptions on the right.

Not all technologies are used.

Answer:

NEW QUESTION: 73

An engineer must logically partition two Cisco Nexus 7000 Series Switches into two environments called Test_39919596 and Production_59423879. The environments must use only F2-Series line cards and be limited to a maximum of 265 port-channels.

Which Cisco Nexus feature must be used?

- A. vPC
- B. VDC
- C. vFC
- D. VRF

Answer: B (LEAVE A REPLY)

VDC (Virtual Device Context) allows a single physical Nexus 7000 switch to be segmented into multiple logical switches, each acting as an independent device with its own configuration, control plane, and management. This is precisely designed for logical partitioning within the same physical switch hardware.

VDCs can be assigned specific resources like interfaces, line cards (e.g., F2-Series), and port-channel limits, which matches the requirement of restricting the environments and resource usage. It provides isolation at the hardware and management level, allowing separate environments like Test and Production to coexist securely and independently on the same physical devices.

NEW QUESTION: 74

A customer needs a design for a new data center network that meets these requirements:

Logically partition the environment into separate security domains.

Cut costs related to purchasing additional equipment.

Separate routing processes, TCAM, QoS tables, and data planes.

Which technology must be used?

- A. VDC
- B. VLAN
- C. VRF
- D. vPC

Answer: C (LEAVE A REPLY)

NEW QUESTION: 75

In virtual machine mobility architectures, which technical issue is LISP implemented to resolve?

- A. data center VLAN extension
- B. multicast limitations in the WAN
- C. flooding of unknown unicast traffic across the WAN
- D. suboptimal traffic flow between data centers

Answer: D (LEAVE A REPLY)

NEW QUESTION: 76

Which two methods mitigate congestion in a SAN network? (Choose two.)

- A. Configure ER_RDY to allow splitting of each ISL between switches into separate virtual links.
- B. Use the port-monitor command to detect slow drain devices.
- C. Configure the port channel to enable individual buffer-to-buffer credits.
- D. Configure the port monitor to allow categorization of a specific device as slow.
- E. Configure the flow control for the FC to use R_RDY.

Answer: A,D (LEAVE A REPLY)

- Extended Receiver Ready - This feature allows each ISL between supporting switches to be split into four separate virtual links, with each virtual link assigned its own buffer-to-buffer credits. Virtual link 0 used to carry control traffic, virtual link 1 is used to carry high-priority traffic, virtual link 2 is used to carry slow devices, and virtual link 3 is used to carry normal traffic.
- Congestion Isolation - This feature allows devices to be categorized as slow by either configuration command or by port monitor.
- Port monitor portguard action for Congestion Isolation - Port monitor has a new portguard option to allow the categorization of a device as slow so that it can have all traffic flowing to the device routed to the slow virtual link.

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/8_x/config/interfaces/cisco_mds9000_interfaces_config_guide_8x/congestion_avoidance_isolation.html

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NEW QUESTION: 77

A company has several data centers with hundreds of Cisco UCS blade chassis. A network consultant plans to active Cisco Discovery Protocol to the servers to facilitate Layer 1 troubleshooting. For security reasons, the company wants to restrict the servers from sending different MAC addresses to the fabric interconnect after the MAC address from the first packet is learned. Which two policies be modified to support this design? (Choose two.)

- A. Pin Group Policy
- B. Network Control Policy
- C. vNIC Policy
- D. vNIC Template Policy
- E. Ethernet Adapter

Answer: B,D (LEAVE A REPLY)

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Network-Mgmt/4-0/b_UCSM_Network_Mgmt_Guide_4_0/b_UCSM_Network_Mgmt_Guide_4_0_chapter_01010.html

NEW QUESTION: 78

A network engineer designs a virtual network in a Cisco UCS Manager. The traffic must be explicitly forwarded from the vNIC on the server to a specific uplink Ethernet port on the Cisco fabric interconnect. Also, the server vNIC must use the same uplink Ethernet port after reboot.

Finally, the design requires a QoS policy for remote direct memory access over converged Ethernet (RoCE v2). Which set of design features meets these requirements?

- A. vNIC template and Gold priority
- B. LAN pin group and Platinum priority
- C. server VLAN pool and Gold priority
- D. vNIC pool and Silver priority

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 79

A company must integrate an iSCSI storage solution into its existing production environment. The new iSCSI network must be accessible from a limited set of network segments. The client devices follow a strict network security policy to access critical data from the storage array. Which design steps must be used to meet these requirements?

- A. Option B
- B. Option D
- C. Option A
- D. Option C

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 80

A customer asks an engineer to develop a framework to configure Cisco services that will be used to replace process of manual device configuration. The engineer plans to use a programmatic interface and must keep these considerations in mind:

- The customer's environment requires the script to authenticate before executing further actions.
- The customer's security requirements mandate the use of HTTPS transport.
- The support stall has limited shell scripting knowledge, so the scripts should be easy to read and write and be self-documenting.

Which two solutions should be used to meet these requirements? (Choose two.)

- A. REST calls
- B. Bash scripts
- C. domain-based policies
- D. Python scripts
- E. YAML

Answer: A,D ([LEAVE A REPLY](#))

NEW QUESTION: 81

When planning to deploy a load-balancing service as a managed node, which ACI configuration must be included?

- A. BGP ECMP
- B. Layer 4 to Layer 7 device package

- C. inline load-balancing device
- D. ITD

Answer: B ([LEAVE A REPLY](#))

Section: Network Design

Explanation

Explanation/Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI_Best_Practices/b_ACI_Best_Practices/b_ACI_Best_Practices_chapter_0110.html

NEW QUESTION: 82

Which mode must be enabled on a Cisco UCS Fabric Interconnect to connect directly to a storage array?

- A. FC switching mode
- B. NPV mode
- C. FC end-host mode
- D. NPIV mode

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 83

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

Answer: C ([LEAVE A REPLY](#))

This policy map shows a wrong MTU config. Check "12. Do I need to enable Jumbo frames for FCOE?" in <https://community.cisco.com/t5/data-center-documents/fibre-channel-over-ethernet-fcoe-questions-and-answers-from-live/ta-p/3108755>

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

NEW QUESTION: 84

After experiencing traffic disruptions from the failure of a single router, a customer asks an engineer to design a solution that will prevent this from occurring in the future. While examining the customer's environment, the engineer discovers that the routers are manufactured by a variety of different vendors, and they have varying amounts of CPU and memory resources. Additionally, several of the customer's applications require the ability to fine-tune the load-balancing parameters between multiple gateway routers.

Which solution should be used to meet these requirements?

- A. HSRP
- B. VRRP
- C. FHRP
- D. GLBP

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 85

Refer to the exhibit.

A customer must ensure that the interface on a switch has enough resources to sustain the line rate traffic during peak load.

Which action meets this requirement?

- A. Change the rate mode to dedicated.
- B. Set Transmit B2B credit to 16.
- C. Increase the data field size to 9000 bytes.
- D. Change the port mode to NL.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 86

An engineer must build a VXLAN flood-and-learn network. The customer requires the solution to be based on the IETF documented practice in RFC 7348. The solution must use broadcast, unknown unicast, and multicast (BUM) and include the efficient BUM and short BUM replication modes that use only shared trees.

Which technology meets these requirements?

- A. MVPN
- B. PIM sparse mode
- C. Bidirectional PIM
- D. PIM SSM

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 87

Which feature provides a sandbox to convert NX-OS CLI commands to REST-based scripts on Cisco Nexus 7700 Series Switches?

- A. NX-API
- B. Postman
- C. Bash shell
- D. Guest shell

Answer: A ([LEAVE A REPLY](#))

Section: Automation Design

Explanation/Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/programmability/guide/b_Cisco_Nexus_9000_Series_NX-OS_Programmability_Guide_7x/b_Cisco_Nexus_9000_Series_NX-OS_Programmability_Guide_7x_chapter_010010.html

NEW QUESTION: 88

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. VRF-lite
- C. Distributed anycast gateway
- D. DC interconnect
- E. Inter-site network

Answer: C,D ([LEAVE A REPLY](#))

Reference:

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

NEW QUESTION: 89

Drag and drop the technologies from the left onto the correct descriptions on the right.

Answer:

NEW QUESTION: 90

An engineer is building a data center network with VXLAN EVPN. The requirement is to use multicast for the broadcast, unknown unicast, and multicast replication.

Which two VNI to multicast group mapping methods must be used to meet these requirements? (Choose two.)

- A. many NVE to one multicast group
- B. many VNI to one multicast group
- C. one NVE to many multicast groups
- D. many VNI to many multicast groups
- E. one VNI to one multicast group

Answer: A,B (LEAVE A REPLY)

NEW QUESTION: 91

Which two configurations allow for routing traffic between two VDCs? (Choose two.)

- A. Connect the VDCs to an external Layer 3 device.
- B. Cross-connect the ports between the VDCs.
- C. Create VRF-aware software infrastructure interfaces.
- D. Create a policy map in the default VDC that routes traffic between the VDCs.
- E. Create interfaces in the VDC that can be accessed by another VDC.

Answer: A,D (LEAVE A REPLY)

Section: Network Design

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NEW QUESTION: 92

A network architect working for a service provider with an employee ID: 1234:56:78 must interconnect six geographically separated data centers that use networking equipment from different network vendors. The sites must support Layer 2 virtual machine mobility using a full mesh Layer 2 topology between the sites. Which data center technology meets these requirements?

- A. OTV
- B. FabricPath
- C. VPLS
- D. vPC+

Answer: (SHOW ANSWER)

NEW QUESTION: 93

An engineer must connect a storage array directly to an existing Cisco UCS Fabric Interconnect.

The customer requires a solution that provides IP-based storage that does not need to be connected through an external switch. Also, the operations team wants to have the ability to have direct access to the files stored on the storage array from their Linux hosts.

Which storage technology meets these requirements?

- A. SAN
- B. NAS
- C. FCoE
- D. iSCSI

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 94

Refer to the exhibit.

A Cisco UCS chassis that has two IOMs is discovered. The chassis discovery policy creates a fabric port channel. What is the result of this policy?

- A. Each uplink that connects an IOM is configured as a discrete link.
- B. Cisco UCS Manager creates a single fabric port channel.
- C. The port channel is disabled until an administrator enables it manually.
- D. Cisco UCS Manager creates two separate fabric port channels.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 95

Drag and drop the components from the left onto the descriptions on the right that indicate what occurs to Fibre Channel fabric when that component fails.

Answer:

NEW QUESTION: 96

Refer to the exhibit. A high-availability setup for iSCSI is designed with the host running iSCSI multipath software. Each IP storage port on the MDS switch exports the same two Fibre Channel target ports with different iSCSI target names.

In this design, how many iSCSI sessions are created from the host so that recovery occurs if any component fails?

- A. 2
- B. 3
- C. 4
- D. 5

Answer: (SHOW ANSWER)

https://www.cisco.com/en/US/docs/storage/san_switches/mds9000/sw/rel_3_x/configuration/guides/cli_3_4_x/ciscsi.html#wp3002576

NEW QUESTION: 97

An end user is experiencing network latency when accessing a database in a disaster recovery site. The monitoring team concluded that the database was writing simultaneously to the storage arrays on the primary and disaster recovery sites.

Which design resolves this issue?

- A. FCIP tunneling between data center
- B. synchronous replication between data centers
- C. asynchronous replication between data centers

D. FCoE tunnel between data center

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 98

Which two vSphere features must be included in the design of a Cisco HyperFlex systems stretched cluster?

(Choose two.)

- A. FT
- B. VSS
- C. VDP
- D. DRS
- E. HA

Answer: D,E ([LEAVE A REPLY](#))

NEW QUESTION: 99

Which two configuration methods can be used to deploy QoS to Cisco MDS Series switches?

(Choose two.)

- A. zone-based QoS
- B. multiple QoS policies that match individual devices
- C. VSAN-based QoS
- D. FCoE VLAN-based QoS
- E. multiple QoS policies that match multiple devices

Answer: ([SHOW ANSWER](#))

While you can configure both zone-based QoS and VSAN-based QoS configurations in the same switch, both configurations have significant differences.

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/7_3/configuration/qos/cisco_mds9000_qos_config_guide/configuring_qos.html

NEW QUESTION: 100

Drag and Drop Question

Drag the appropriate from the left onto the current UDLD modes of operation on the right.

Answer:

Explanation:

<https://www.cisco.com/c/en/us/support/docs/lan-switching/spanning-tree-protocol/10591-77.html>

NEW QUESTION: 101

An engineer manages a multi-organization Cisco UCS fabric and requires a solution to streamline the daily operational tasks of creating service profile templates. The operations team is unfamiliar with programming languages and must have a solution that is written in an easy-to-read and declarative manner. The operations team also requires the tool to be flexible enough to support the creation of custom modules. The development team is familiar with the Python programming language and can develop these custom modules for the operations team. Which tool meets these requirements?

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

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 102

What are two reasons to select OTV as the DCI solution to connect multisite topologies? (Choose two.)

- A. It propagates hosts reachability without support of traffic flooding.
- B. Layer 3 failures do not propagate beyond the OTV edge device.
- C. It extends the spanning tree between data centers.
- D. It is an open standard.
- E. It constrains HSRP hello messages to each data center.

Answer: B,C ([LEAVE A REPLY](#))

Reference: https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data_Center/DCI/whitepaper/DCI3_OTV_Intro/DCI_1.html

NEW QUESTION: 103

A customer needs to deploy a three-tier network architecture that will consist of web, and other business-critical applications. The solution will include Cisco UCS 6324 Fabric interconnects managing B and C Series servers. The Fabric interconnects will be connected to the Cisco Nexus 7706 series switch for network access. A storage array will be directly connected to the UCS deployment. Which type must be used to meet these requirements?

- A. UCS Interconnect in Ethernet end-host mode
UCS Interconnect in Fibre Channel switching mode
Fabric Interconnects uplinked to the Nexus device using an LACP port-channel in active mode
- B. UCS Interconnect in Ethernet switching mode
UCS interconnect to Fibre Channel switching mode
Fabric Interconnect uplinked to the Nexus device using an LACP port-channel in passive mode
- C. UCS Interconnect in Ethernet end-host mode
UCS Interconnect in Fibre Channel end-host mode
Fabric Interconnect uplinked to the Nexus device using an LACP port-channel in passive mode
- D. UCS Interconnect in Ethernet switching mode
UCS interconnect in Fibre Channel end-host mode
Fabric Interconnects uplinked to the Nexus device using an LACP port-channel in active mode

Answer: (SHOW ANSWER)

FC must be in switching mode for Direct Attached Storage.

NEW QUESTION: 104

Drag and drop the feature descriptions from the left onto the correct UCS Fabric Interconnect modes on the right.

Answer:

NEW QUESTION: 105

An architect must automate routine tasks within a data center. The data center exclusively uses Cisco Nexus Series Switches. The networking team lacks proper programming knowledge and prefers an automation solution that leverages NXOS commands. Any configuration change must use HTTPS for transport due to a security compliance requirement. Which solution must the architect choose?

- A. Python-API
- B. Chef

- C. NX-API
- D. Terraform

Answer: C (LEAVE A REPLY)

NEW QUESTION: 106

Which statement accurately describes the configuration requirements for disjoint Layer 2 networks on Cisco UCS?

- A. The VLAN IDs must overlap in both Layer 2 domains.
- B. All of the uplinks must be in one port channel to keep all of the ports active.
- C. The Cisco UCS fabric Interconnect must be in switch mode.
- D. The Cisco UCS Fabric Interconnect must be in end-host motto.

Answer: D (LEAVE A REPLY)

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NEW QUESTION: 107

A midsize corporation with significant data-storage requirements is planning to deploy RFC 3720- based technology in its data center to provide efficient and reliable block-level storage access to servers. The corporation requires a robust solution with optimal performance, load-balancing, and fault tolerance. The solution must use multiple network paths to optimize bandwidth usage and provide redundancy. LACP has already been enabled on the data-center switches. Which two actions must be taken to accomplish the goal? (Choose two.)

- A. Configure iSCSI MPIO software on the hosts.
- B. Configure the iSCSI initiators and targets to use a single network path.
- C. Implement MPIO with redundant network paths.
- D. Implement VLAN tagging in accordance with the IEEE 802.1Q standard to segregate iSCSI traffic from other data-center traffic.
- E. Disable jumbo frames on the data center switches.

Answer: (SHOW ANSWER)

Configure iSCSI MPIO software on the hosts.

Enabling MPIO on each server ensures that the host OS can use multiple active iSCSI sessions in parallel, aggregating bandwidth across NICs and automatically failing over if one path drops.

Implement VLAN tagging in accordance with the IEEE 802.1Q standard to segregate iSCSI traffic from other data-center traffic.

Isolating iSCSI frames on their own VLAN prevents congestion from other workloads, improves security, and simplifies QoS policies - without this, even multi-path links can suffer from "noisy neighbor" issues.

NEW QUESTION: 108

What should be implemented on a Cisco Nexus 9300 Series Switch to reduce oversubscription between switches within a Fibre Channel fabric?

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

Answer: (SHOW ANSWER)

A SAN port channel aggregates multiple physical Fibre Channel links into one logical interface, delivering higher aggregate bandwidth, even load-balancing, and redundancy across the links. By bundling E-ports or TE-ports into a SAN port channel on the Nexus 9300, you effectively reduce oversubscription between switches in the fabric.

NEW QUESTION: 109

A network engineer is designing a Cisco Hyperflex infrastructure. The Infrastructure will be connected to an external SAN fiber channel array and must support Microsoft clustering. Which storage connectivity method must be used to meet these requirements?

- A. Internet Small Computer Systems Interface
- B. Fibre Channel over Ethernet
- C. raw device mapping
- D. server message block

Answer: C ([LEAVE A REPLY](#))

Source is from Cisco Press Hyperconverged Infrastructure Data Centers: Demystifying HCI.

NEW QUESTION: 110

Drag and drop the feature descriptions from the left onto the correct UCS Fabric Interconnect modes on the right.

Answer:

NEW QUESTION: 111

Drag and drop the data center technologies from the left onto the correct descriptions on the right. Not all technologies are used.

Answer:

NEW QUESTION: 112

Which type of encoding is used on 8-Gbps links as compared to 10-Gbps links?

- A. 8-Gbps links and 10-Gbps links use 8B/10B encoding.
- B. 8-Gbps links use 8B/10B encoding, and 10-Gbps links use 64B/66B encoding.
- C. 8-Gbps links and 10-Gbps links use 64B/66B encoding.
- D. 8-Gbps links use 64B/66B encoding, and 10-Gbps links use 8B/10B encoding.

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 113

A network engineer is connecting a backup server to the given network. The server has three available physical Ethernet interfaces - dual 1Gbps interfaces, plus a single 10Gbps interface - and all devices support virtual port channels. The engineer must minimize backup time from hosts on the network, with a mandate for no single point of failure connectivity within the data center and the interfaces either active or passive. Which deployment model must the engineer use?

- A.
- B.
- C.
- D.

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 114

An engineer manages hundreds of Cisco Nexus 3000 Series and 9000 Series Switches that are installed at several data centers and wants to use one of the built-in automation tools of the Cisco NX-OS Guest Shell to automate daily activities. The engineer requires a tool that uses imperative language, has extensive library support, and is object-oriented.

Which automation tool should be used to meet these requirements?

- A. Python
- B. Bash
- C. Perl
- D. YAML

Answer: A ([LEAVE A REPLY](#))

D18912E1457D5D1DDDCBD40AB3BF70D5D

NEW QUESTION: 115

An engineer must interconnect two geographically separated data centers. The service provide offers a Layer 2 metro Ethernet link.

The strict security policy requires that the information that is shared between two sites must be sent encrypted.

The application deployed between sites requires a line-rate throughput regardless of the packet size and speed.

Which solution meets these requirements?

- A. IPsec
- B. MACsec
- C. L2TPv2
- D. L2TPv3

Answer: B ([LEAVE A REPLY](#))

<https://www.cisco.com/c/dam/en/us/td/docs/solutions/Enterprise/Security/MACsec/WP-High-Speed-WAN-Encrypt-MACsec.pdf>

NEW QUESTION: 116

Refer to the exhibit.

Refer to the exhibit. Two Cisco Nexus 9000 Series Switches exchange OSPF routing information with R1. Which action accomplishes this goal?

- A. Add peer-gateway under vPC interface link.
- B. Add peer-gateway under vPC domain.
- C. Add layer3 peer-router under vPC interface link.
- D. Add layer3 peer-router under vPC domain.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 117

Which address pool is used when a vHBA template is created?

- A. MAC
- B. WWPN
- C. IP
- D. UUID

Answer: (SHOW ANSWER)

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/2-1/b_UCSM_GUI_Configuration_Guide_2_1/b_UCSM_GUI_Configuration_Guide_2_1_chapter_011010.html

NEW QUESTION: 118

An engineer installs a B-Series server in a Cisco UCS chassis that contains a pair of UCS-IOM-2208XP I/O modules. The full bandwidth of the I/O module must be utilized. Which two elements should be used in this environment? (Choose two.)

- A. eight twinax cables from each I/O module to each fabric interconnect
- B. four twinax cables from each I/O module to each fabric interconnect
- C. Cisco UCS VIC 1225
- D. Cisco UCS M81KR
- E. Cisco UCS VIC 1280

Answer: ([SHOW ANSWER](#))

2208 has 8 uplinks. VIC 1225 only works on C-Series UCS. M81KR has only 2x10G ports. VIC 1280 has 8x10G ports.

NEW QUESTION: 119

Drag the appropriate from the left onto the current UDLD modes of operation on the right.

Answer:

NEW QUESTION: 120

Which pools are used when a vNIC template is created in Cisco UCS Manager?

- A. WWPN
- B. UUID
- C. MAC
- D. IP

Answer: C ([LEAVE A REPLY](#))

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Network-Mgmt/3-1/b_UCSM_Network_Mgmt_Guide_3_1/b_UCSM_Network_Mgmt_Guide_3_1_chapter_0111.html

NEW QUESTION: 121

An engineer must build a VXLAN flood-and-learned network. The customer requires the solution to be based on the IETF documented practice in RFC 7348. The solution must use broadcast, unknown unicast, and multicast (BUM) and include the efficient BUM and short BUM replication modes that use only shared trees.

Which technology meets these requirements?

- A. PIM SSM
- B. MVPN
- C. Bidirectional PIM
- D. PIM sparse mode

Answer: C ([LEAVE A REPLY](#))

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NEW QUESTION: 122

Refer to the exhibit.

What must be the default gateway of the servers in EPG Web?

- A. NAT appliance
- B. subnet address of L3Out
- C. subnet address of BD1
- D. subnet address of BD2

Answer: C (LEAVE A REPLY)

NEW QUESTION: 123

Which Ethernet to Cisco Fabric Interconnect connectivity configuration is supported when FCoE is implemented?

- A. VSS that has unified uplinks
- B. vPC that has unified uplinks
- C. cross-connections with pinning
- D. Ethernet and unified ports on the same port channel

Answer: B (LEAVE A REPLY)

NEW QUESTION: 124

A cloud service provider is managing day-2 operations of over 200 blade servers installed in the Cisco UCS environment. This pool of network resources is providing virtual networks to their customers. To successfully operate this environment, frequent changes to vNICs and other operational policies are required across multiple UCS domains. The operations team must streamline these repetitive tasks.

Which orchestration tool must be used to meet this requirement?

- A. Cisco ACI Multisite Orchestrator
- B. Cisco DAN Center
- C. Cisco UCS Director
- D. Cisco UCS Manager

Answer: C (LEAVE A REPLY)

Cisco UCS Director is designed for orchestrating and automating the management of multiple Cisco UCS domains. It provides a single pane of glass to manage physical and virtual resources, including servers, policies, vNICs, and service profiles.

UCS Director enables workflow automation to streamline repetitive tasks across domains, which matches the requirement to handle frequent changes efficiently across over 200 blade servers. It supports multi-domain management and offers role-based access and self-service portals, helpful for cloud service provider environments.

NEW QUESTION: 125

You are designing a fabric interconnect and Cisco UCS blade chassis solution for a client.

The solution includes two vHBA interfaces per server in the blade chassis.

Which two requirements for the servers to boot successfully are true? (Choose two.)

- A. On the server side, the amount of WWPNs must equal to the number of the vHBA interfaces multiplied by two.
- B. On the server side, the amount of WWPNs must equal to the number of the vHBA interfaces.
- C. On the server side, the amount of WWNNs must equal to the number of the vHBA interfaces.
- D. On the server side, each server must be allocated one WWPN.
- E. On the server side, each server must be allocated one WWNN.

Answer: B,E (LEAVE A REPLY)

https://www.cisco.com/en/US/docs/unified_computing/ucs/sw/gui/config/guide/141/UCSM_GUI_C_onfiguration_Guide_141_chapter22.html WW node names assigned to the server WW port names assigned to the vHBA

NEW QUESTION: 126

A Cisco engineer is configuring a Cisco UCS integrated infrastructure for SAP HANA that consists of 8 x Cisco UCS B/C480-M5 servers for SAP HANA and 4 x Cisco UCS C240-M5 C-Series rack mount servers for storage. The rack servers are equipped with Cisco VIC 1225T. The engineer plans to install RHEL8. but the boot process is interrupted at installation because the iSCSI LUNs are not recognized by the VIC adapter. After proper investigation, the engineer concludes that the initiator and target configuration that is programmed on the primary iSCSI VNIC to the operating system is missing. What is the reason for the issue?

- A. The network interfaces are not configured.
- B. The Linux ISO image is not Cisco approved.
- C. The boot parameter ip=ibft is not set.
- D. The storage system is not reachable

Answer: (SHOW ANSWER)

NEW QUESTION: 127

An engineer must use OTV for Layer 2 connectivity between data centers to support virtual machine mobility between the customer sites. To support this requirement, the engineer must ensure the existence of the same default gateway on both sites. Additionally, the operations team reports high bandwidth utilization on site A and wants to optimize the outbound traffic flows to use a local DC exit point.

Which feature must be used to meet these requirements?

- A. data group
- B. FHRP filter
- C. ARP filter
- D. control group

Answer: B (LEAVE A REPLY)

https://www.cisco.com/c/dam/en/us/products/collateral/switches/nexus-7000-series-switches/guide_c07-728315.pdf

NEW QUESTION: 128

An engineer must connect a Cisco UCS Fabric Interconnect to a storage array using a Fibre Channel protocol. The SAN must be directly connected to the UCS fabric interconnects using ports 1/1 and 1/2. Which fabric interconnect configuration must be used?

- A. Fibre Channel end-host mode, and ports as Fibre Channel uplink port
- B. Fibre Channel switching mode, and ports as Fibre Channel uplink port
- C. Fibre Channel end-host mode, and ports as Fibre Channel storage port
- D. Fibre Channel switching mode, and ports as Fibre Channel storage port

Answer: (SHOW ANSWER)

NEW QUESTION: 129

Refer to the exhibit.

The security team created a new security policy that requires certain types of traffic to be subject to deep packet inspection. The traffic types are:

- *internet traffic to application servers
- *internet traffic to corporate users
- *partner network traffic to application servers
- *partner network traffic to corporate users

Where must the next-generation firewalls be inserted to implement the new policy?

- A. one-armed insertion from the core switch cluster
- B. inline insertion between the user network switch cluster and the core cluster
- C. one-armed insertion from the ACI border leaf cluster
- D. inline insertion between the edge router cluster and the core switch cluster

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 130

Which two naming formats identify target or initiator iSCSI nodes? (Choose two.)

- A. WWPN
- B. EUI
- C. IQN
- D. WWN
- E. OUI

Answer: B,C ([LEAVE A REPLY](#))

<https://docs.vmware.com/en/VMware-vSphere/5.5/com.vmware.vsphere.storage.doc/GUID-686D92B6-A2B2-4944-8718-F1B74F6A2C53.html>

NEW QUESTION: 131

What is an advantage of using OTV as compared to VPLS for data center redundancy?

- A. prevents loops on point-to-point links
- B. provides head-end replication
- C. uses a proactive MAC advertisement
- D. provides full-mesh connectivity

Answer: A ([LEAVE A REPLY](#))

Flooding Based Learning -> Control-Plane Based Learning

Move to a Control Plane protocol that proactively advertises MAC addresses and their reachability instead of the current flooding mechanism.

https://www.cisco.com/c/dam/en_us/solutions/industries/docs/gov/otv.pdf

NEW QUESTION: 132

An engineer must implement a WWPN pool for the vHBA template inside the Cisco UCS Manager. The template is used to connect a Cisco UCS B-Series blade to an external storage array.

Which addressing sequence accomplishes this goal?

- A. from iqn.2020-c41i4p21y5a165.lab.ucs-00 to iqn.2020-ceiD1pj5y135-8.lab.ucs-FF
- B. from 20:00:00:00:00:00:00:00 to 20:FF:FF:FF:FF:FF:FF:FF
- C. from 192.168.1.1 to 192.168.1.254

D. from 00:0A:E6:3E:00:00 to 00:0A:E6:3E:00:FF

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 133

An engineer must design a disaster recovery solution for a Cisco ACI Multi-Site network. One requirement is that the applications must have seamless IP addressing across sites. The solution must also be highly resilient and support Layer 2 adjacency. Which design meets these requirements?

- A. Option C
- B. Option D
- C. Option A
- D. Option B

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 134

A network architect designs the iSCSI architecture. The requirements are to achieve high performance and a low amount of oversubscription and to minimize latency. Which two actions must be taken to meet these requirements? (Choose two.)

- A. Minimize the number of hops between the storage and the hosts.
- B. Set the size of the payload in each frame to MTU 1500.
- C. Use a software-based iSCSI adapter on the client side.
- D. Enable iSCSI port binding on the Initiator device.
- E. Configure the size of the payload in each frame to MTU 9000.

Answer: D,E ([LEAVE A REPLY](#))

NEW QUESTION: 135

You must design an OTV implementation that supports packets fragmentation.

Which option do you use?

- A. MTU size of 9216 bytes on all the join interfaces
- B. OTV headers defined to allow core to hash traffic
- C. adjacency server to track the overlay membership
- D. Cisco ASR 1000 Series Aggregation Services Router that has Advanced IP Services

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 136

Drag and drop the Cisco Nexus 7000 Series Switch resources from the left onto the correct groups on the right.

Answer:

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NEW QUESTION: 137

Which mode must be enabled on a Cisco UCS Fabric Interconnect to connect directly to a storage array?

- A. NPIV mode
- B. FC end-host mode
- C. NPV mode
- D. FC switching mode

Answer: D (LEAVE A REPLY)

Switch mode is the traditional Fibre Channel switching mode. Switch mode allows the fabric interconnect to connect directly to a storage device. Enabling Fibre Channel switch mode is useful in POD models where there is no SAN (for example, a single Cisco UCS system connected directly to storage), or where a SAN exists (with an upstream MDS).

NEW QUESTION: 138

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. VRF-lite
- C. Distributed anycast gateway
- D. DC interconnect
- E. Inter-site network

Answer: (SHOW ANSWER)

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>

NEW QUESTION: 139

Drag and drop the components from the left onto the descriptions on the right that indicate what occurs to Fibre Channel fabric when that component fails.

Answer:

NEW QUESTION: 140

An engineer requires a solution that achieves Ethernet traffic forwarding on all available paths from the hosts to the Cisco Nexus Fabric Extender and from the Fabric Extenders to the Cisco Nexus 5000 Series Switches.

The NIC teaming from the Fabric Extender to a server should use an LACP EtherChannel. Which solution should be implemented to meet these requirements?

- A. Virtual Port Channel
- B. Virtual Port Channel Plus (vPC+)
- C. Back-to-Back Virtual Port Channel
- D. Enhanced Virtual Port Channel

Answer: (SHOW ANSWER)

NEW QUESTION: 141

Which two vSphere features must be included in the design of a Cisco HyperFlex systems stretched cluster?

(Choose two.)

- A. HA

- B. VSS
- C. FT
- D. VDP
- E. DRS

Answer: A,E ([LEAVE A REPLY](#))

Section: Compute Design

Explanation/Reference: https://www.cisco.com/c/en/us/td/docs/hyperconverged_systems/HyperFlex_HX_DataPlatformSoftware/HyperFlex_Stretched_Cluster/3_5/b_HyperFlex_Systems_Stretched_Cluster_Guide_3_5.pdf

NEW QUESTION: 142

Refer to the exhibit.

The Cisco Nexus Series Switch with hostname Nexus! is the default gateway for server A and server B Both servers must have reachability to the internet; however, server A internet traffic must pass through the firewall for deep packet inspection.

Also, the firewall must inspect any communication between server A and server B.

Which solution must be applied to separate the data plane path for server A and server B?

- A. VLAN
- B. VDC
- C. VRF
- D. VXLAN

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 143

An engineer must connect a Cisco UCS B-Series based system to an existing large storage area network fabric. The deployment must support hardware-based load balancing, prevent Fibre Channel domain ID exhaustion, and enable all blade servers to be in the same VSAN. Which set of actions meets the requirements?

- A. Option C
- B. Option B
- C. Option A
- D. Option D

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 144

Which two methods mitigate congestion in a SAN network? (Choose two.)

- A. Configure ER_RDY to allow splitting of each ISL between switches into separate virtual links.
- B. Use the port-monitor command to detect slow drain devices.
- C. Configure the port channel to enable individual buffer-to-buffer credits.
- D. Configure the port monitor to allow categorization of a specific device as slow.
- E. Configure the flow control for the FC to use R_RDY.

Answer: B,D ([LEAVE A REPLY](#))

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/8_x/config/interfaces/cisco_mds9000_interfaces_config_guide_8x/congestion_avoidance_isolation.html

NEW QUESTION: 145

Refer to the exhibit.

Server 1 fails to connect to the storage array over the Storage Area Network (SAN) of the Cisco NDS 9000 Series Switch. The requirements are to redesign the storage network and keep these considerations in mind:

The traffic from each of the server must be redundant and isolated.

The design must tolerate hardware and software failures and upgrades of SAN fabric devices.

Which action must be taken to meet these requirements?

- A. Add an additional supervisor to the Fibre Channel switch to support nondisruptive upgrades.
- B. Place an additional Fibre Channel switch to create two physically independent storage fabrics.
- C. Create a SAN port channel that faces the storage device to sustain a link failure.
- D. Enable NPV and F-Port-channel on ports that face Server 1 on the Fibre Channel switch to create redundant paths.

Answer: D (LEAVE A REPLY)

NEW QUESTION: 146

A network architect is designing a storage network to connect to an existing IP network over 100G Ethernet ports for multiple hosts. The architect decided to require iSCSI multipathing to provide multiple routes between servers within the SAN and storage devices that reside within the IP network. Which requirement must be applied to the IP network switch that connects to the SAN environment where the hosts reside?

- A. VLAN load balancing to the storage devices
- B. ECMP routes on the IP network to facilitate load sharing
- C. trunk configuration toward the iSCSI SAN device for multiple VLANs
- D. multiple physical connections to the iSCSI SAN device

Answer: B (LEAVE A REPLY)

NEW QUESTION: 147

Refer to the exhibit. An engineer is configuring a QoS policy with these requirements:

- Match-all AF11 traffic and set it to a DSCP value of 14.
- The committed rate must be 10 Mbps with a committed burst rate of 1000 ms.
- Drop any AF11 traffic that violates these settings.
- Any traffic other than af11 must have a DSCP value of 0.

The given class-map configuration already exists. Which solution must the engineer use to meet the requirements?

- A.
- B.
- C.
- D.

Answer: D (LEAVE A REPLY)

NEW QUESTION: 148

Refer to the exhibit.

A high-availability setup for iSCSI is designed with the host running iSCSI multipath software. Each IP storage port on the MDS switch exports the same two Fibre Channel target ports with different iSCSI target names.

In this design, how many iSCSI sessions are created from the host so that recovery occurs if any component fails?

- A. 3
- B. 2
- C. 4
- D. 5

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 149

What are two functions of a Network Services Orchestrator in an NFV environment? (Choose two.)

- A. It provides an API-based northbound interface for transparent integration with systems that operate at the resource-facing services layer.
- B. It provides a standards-based southbound interface for transparent integration with systems that operate at the customer-facing services layer.
- C. It operates at the resource-facing services layer and provides overall lifecycle management at the network service level.
- D. It operates at the customer-facing services layer and provides the management interface for the virtual network devices.
- E. It provides a standards-based northbound interface for transparent integration with systems that operate at the customer-facing services layer.

Answer: A,C ([LEAVE A REPLY](#))

NEW QUESTION: 150

An engineer needs to design a network environment in a data center that uses Cisco Nexus 9000 Series Switches. The solution must meet these requirements:

- * interoperate with 802.1D devices
- * load-balance spanning-tree traffic
- * interoperate with third-party devices

Which spanning-tree protocol meets these requirements?

- A. RPVST+
- B. STP
- C. RSTP
- D. MSTP

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 151

Refer to the exhibit.

Refer to the exhibit. An engineer working for a service provider with an employee ID: 4800:35-849 must perform the mapping of Fibre Channel LUN targets to the indicated iSCSI virtual target.

Which configuration shows the required mapping?

- A.
- B.

Answer: A ([LEAVE A REPLY](#))

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NEW QUESTION: 152

An engineer is implementing a Cisco UCS environment. The system must aggregate all vNICs into a single policy and consistently enforce node disassociation across the cluster. Which two UCS policies meet these requirements? (Choose two.)

- A. LAN connectivity policy
- B. firmware policy
- C. boot policy
- D. vNIC policy
- E. scrub policy

Answer: A,D ([LEAVE A REPLY](#))

NEW QUESTION: 153

An engineer must interconnect two data centers to support the dynamic virtual machine migration. The data centers are currently interconnected using an IPv4 network. However, the data piano encapsulation of the underlay network is expected to change next year. To meet the VM migration requirement, the solution must track MAC route changes, update all other remote devices simultaneously and prevent excessive MAC flapping with broadcast and unicast traffic loops. The company must also use networking equipment from different manufacturers to prevent vendor-locking. Which solution meets these requirements?

- A. VXLAN
- B. EVPN
- C. OTV
- D. EoMPLS

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 154

An engineer working for a telecommunication company with an employee ID:458:138:642 is evaluating the use of broadcast, unknown unicast, multicast replication modes for a VXLAN EVPN network. The engineer must leverage a pure unicast-based underlay network with the requirement to have multicast forwarding in the overlay. Which method must be used to achieve this task?

- A. PIM dense mode
- B. PIM sparse mode
- C. Bidirectional PIM
- D. ingress replication

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 155

A failure occurs on the network between two BFD and OSPF neighbors. Drag and drop the protocol actions from the left into the correct order on the right.

Answer:

NEW QUESTION: 156

Refer to the exhibit.

A company must implement a multitenant environment for DEV and PROD application teams. The design must support end-to-end route isolation for remote external sites, overlapping IP ranges, and fast, transparent application deployment. Which solution meets the objectives?

- A. Configure independent routing protocols for DEV and PROD.
- B. Implement unique VLANs for DEV and PROD.
- C. Implement dedicated ACLs between DEV and PROD.

D. Configure separate VRFs for DEV and PROD.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 157

Which two naming formats identify target or initiator iSCSI nodes? (Choose two.)

- A. WWPN
- B. EUI
- C. IQN
- D. WWN
- E. OUI

Answer: C,D ([LEAVE A REPLY](#))

<https://docs.vmware.com/en/VMware-vSphere/5.5/com.vmware.vsphere.storage.doc/GUID-686D92B6-A2B2-4944-8718-F1B74F6A2C53.html>

NEW QUESTION: 158

A customer is evaluating a new disaster-recovery solution for their SAN, which is used for noncritical CRM purposes. The SAN is frequently backed up locally at the customer's existing single location, and several hours of data loss can be sustained. The customer wants to retain complete control of the failover process to a separate physical location. Which type of DR is most suitable for the customer?

- A. warm standby
- B. active/active
- C. active/passive
- D. cold standby

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 159

Refer to the exhibit.

Server 1 fails to connect to the storage array over the Storage Area Network (SAN) of the Cisco NDS 9000 Series Switch. The requirements are to redesign the storage network and keep these considerations in mind:

The traffic from each of the server must be redundant and isolated.

The design must tolerate hardware and software failures and upgrades of SAN fabric devices.

Which action must be taken to meet these requirements?

- A. Add an additional supervisor to the Fibre Channel switch to support nondisruptive upgrades.
- B. Place an additional Fibre Channel switch to create two physically independent storage fabrics.
- C. Enable NPV and F-Port-channel on ports that face Server 1 on the Fibre Channel switch to create redundant paths.
- D. Create a SAN port channel that faces the storage device to sustain a link failure.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 160

Drag and drop the components from the left onto the descriptions on the right that indicate what occurs to Fibre Channel fabric when that component fails.

Answer:

NEW QUESTION: 161

The data center aggregation layer that uses IPv4 and IPv6 address space must act as a redundant Layer 3 gateway The solution must support a minimum of 240 virtual groups for an interface The data center aggregation layer hosts network devices from different vendors Which FHRP solution meets these requirements?

- A. VRRPV3
- B. HSRPv1
- C. VRRPv1
- D. HSRPv2

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 162

An engineer must secure the payload traversing across the DCI. The solution must support confidentiality and integrity and it must be open standard. The solution must encrypt Ethernet frames regardless of the upper layer protocol used.

Which technology must be used to support these requirements?

- A. GRE
- B. OTV
- C. MACsec
- D. IPsec

Answer: C ([LEAVE A REPLY](#))

Reference:

<https://developers.redhat.com/blog/2016/10/14/macsec-a-different-solution-to-encrypt-network-traffic/>

NEW QUESTION: 163

Drag and drop the configurations from the left onto the correct policies on the right.

Answer:

NEW QUESTION: 164

What is the disadvantage of asynchronous storage replication as compared to synchronous storage replication in a disaster recovery design?

- A. reduction in application performance
- B. distance limitations
- C. specific backup requirements
- D. potential data loss

Answer: D ([LEAVE A REPLY](#))

Reference: <https://www.evidian.com/products/high-availability-software-for-application-clustering/synchronous-replication-vs-asynchronous-replication/>

NEW QUESTION: 165

Which orchestration tool should be used for the management and analytics of servers across multiple sites?

- A. Cisco Intersight
- B. Cisco Nexus Fabric Manager
- C. Cisco UCS Manager
- D. Cisco Data Center Network Manager

Answer: A ([LEAVE A REPLY](#))

Section: Automation Design

Explanation/Reference: https://www.cisco.com/c/en_in/products/servers-unified-computing/intersight/index.html

NEW QUESTION: 166

The network infrastructure team is beginning to automate routine tasks within the Cisco ACI fabric and is searching for the appropriate solution. The solution must not require any additional software installed on the Cisco APIC. Networking team members lack automation experience and prefer to use a tool that does not require in-depth programming knowledge. Finally, configuration within the Cisco ACI fabric is rarely modified or removed. Which solution must the team choose?

- A. Puppet
- B. Cobra SDK
- C. Ansible
- D. Terraform

Answer: B (LEAVE A REPLY)

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NEW QUESTION: 167

Which approach splits a pair of clustered fabric interconnects into two standalone devices?

- A. Run the disable fips-mode command on each fabric interconnect.
- B. Run the connect local-management command on each fabric interconnect.
- C. Erase the configuration of both fabric interconnects.
- D. Unplug the Layer 1 and Layer 2 interfaces between the devices.

Answer: (SHOW ANSWER)

There is no way to convert back cluster into two standalone.

<https://community.cisco.com/t5/unified-computing-system/break-fabric-interconnect-cluster-into-2-standalone-fabric/td-p/4123885>

<https://kral2.fr/crash-test-what-happen-when-you-loose-1112-on-an-ucsm-cluster/>

NEW QUESTION: 168

Drag and drop the technologies from the left onto the correct descriptions on the right.

Answer:

NEW QUESTION: 169

An engineer must connect a storage array directly to an existing Cisco UCS Fabric Interconnect. The customer requires a solution that provides IP-based storage that does not need to be connected through an external switch. Also, the operations team wants to have the ability to have direct access to the files stored on the storage array from their Linux hosts. Which storage technology meets these requirements?

- A. SAN
- B. SCSI
- C. FCoE

D. NFS

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 170

Which feature must be configured to connect a classical Ethernet network to a data center network so that the data center network appears to be one large switch.

- A. EVPN
- B. OSPF
- C. VPC+
- D. UDLD

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 171

Which mode must be enabled on a Cisco UCS Fabric Interconnect to connect directly to a storage array?

- A. NPIV mode
- B. FC end-host mode
- C. NPV mode
- D. FC switching mode

Answer: D ([LEAVE A REPLY](#))

Explanation

Section: Storage Network Design

NEW QUESTION: 172

Refer to the exhibit. A company plans to implement high availability between the iSCSI host and the Fibre Channel target. Which solution must the company implement to recover from a failure of a host NIC, MDS IP storage port, or Fibre Channel target port?

- A. Implement HSRP of the MDS IP storage ports
- B. Set up IP storage ports to export the two Fibre Channel target ports
- C. Map the Fibre Channel target ports to one IP storage port
- D. Configure FCoE between the host NICs and MDS ports

Answer: B ([LEAVE A REPLY](#))

Each IP storage port is exporting the same two Fibre Channel target ports of the storage but as different iSCSI target names if you use dynamic iSCSI targets). So the two IP storage ports are exporting a total of four iSCSI target devices. These four iSCSI targets map the same two ports of the Fibre Channel target.

https://www.cisco.com/en/US/docs/storage/san_switches/mds9000/sw/rel_3_x/configuration/guid_es/cli_3_3_1/ciscsi.html

NEW QUESTION: 173

Drag and drop the configurations from the left onto the correct policies on the right.

Answer:

NEW QUESTION: 174

An engineer is designing a network with these requirements:

- Ethernet traffic must be load-balanced over two links.
- Storage traffic must be mapped to each link separately, with one link for fabric A traffic and the other link for fabric B traffic.

- IO consolidation must be achieved on the links.

Which topology meets the requirements?

- A.
- B.
- C.
- D.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 175

A client in a commercial building installs a Cisco blade server in the multitenant Cisco UCS blade Infrastructure. To cut operating costs the client's data center is shared with other organizations. The client asks an engineer prevent third parties from accessing their equipment and from accessing BIOS-related information when booting a server. Which Two policies must be used to meet these requirements? (Choose two.)

- A. quiet boot
- B. post error pause
- C. ASPM support
- D. CDN control
- E. front panel lockout

Answer: A,D ([LEAVE A REPLY](#))

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Server-Mgmt/3-2/b_Cisco_UCS_Manager_Server_Mgmt_Guide_3_2/b_Cisco_UCS_Manager_Server_Mgmt_Guide_3_2_chapter_01110.html

Quiet boot is what the BIOS displays during booting the server. If enabled, the BIOS displays the logo screen.

I believe that quiet boot and CDN control may have the customer name.

NEW QUESTION: 176

Refer to the exhibit A Cisco engineer is configuring Cisco Nexus 7000 Series Switches. To simplify initial configuration verification and vPC+/HSRP troubleshooting, the engineer configures the primary vPC+ peer device with the FHRP active router highest priority. The primary FHRP device responds to ARP requests, even though the secondary vPC+ device also forwards the data traffic. Which configuration enables the Layer 3 connectivity from each vPC* peer device?

- A. Configure a VLAN network interface for the same VLAN from both devices.
- B. Ensure that the enhanced Layer 2 license has been installed.
- C. Manually configure virtual MAC addresses for any FHRP protocol.
- D. Set a restore timer that delays the vPC+ restart.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 177

Which two configurations are available by using a service profile template in Cisco UCS Manager? (Choose two.)

- A. number of vHBAs
- B. ARP entries
- C. UUID assignment
- D. VXLAN membership
- E. target server

Answer: A,C ([LEAVE A REPLY](#))

Section: Automation Design

Explanation/Reference: https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/cli/config/guide/2-2/b_UCSM_CLI_Configuration_Guide_2_2/b_UCSM_CLI_Configuration_Guide_2_2_chapter_0100000.html

NEW QUESTION: 178

To help automate the vHBA configuration process, a network engineer is configuring vHBA template pairs on UCS. The engineer is creating primary and secondary templates to define how vHBAs on a server connect to the SAN. Which fact about the template pair should the engineer consider for its potential impact on service?

- A. The fabric ID configuration will be shared between the two templates
- B. The description configuration will be shared between the two templates
- C. The QoS policy configuration will not be shared between the two templates
- D. The WWPN pool configuration will not be shared between the two templates.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 179

Refer to the exhibit. During a synchronization of port roles, a device receives a proposal message on one of its ports that is selected as the new root port. The logs show that Rapid PVST+ forced all other ports to synchronize with the new root information. The engineer analyzes the port states and concludes that the device is synchronized with superior root information received on the root port, and all other ports are synchronized. What happens to a designated port that is in the forwarding state and is not configured as an edge port, if Rapid PVST+ forces it to synchronize with new root information?

- A. It immediately replies with its own information.
- B. It discards frames switched from another port.
- C. It transitions to the Blocking state.
- D. It does not receive BPDUs for transmission.

Answer: (SHOW ANSWER)

NEW QUESTION: 180

A database administrator experiences delay when performing storage replication between primary and secondary data centers. The data centers are located 20 kilometers apart and are connected using a 500 Mbps link. The deployment was implemented using an FCIP tunnel and a pair of Cisco MDS 9250 Series Switches.

The network engineer decided to enable QoS to prioritize replication traffic. Which QoS model must be used to resolve the performance issues?

- A. differentiated services
- B. weighted round robin
- C. strict priority queuing
- D. Resource Reservation Protocol

Answer: (SHOW ANSWER)

NEW QUESTION: 181

Refer to the exhibit.

A cloud provider service provider deployed three geographically separated Cisco ACI data centers. One of the customers needs to host a clustered application that is spread across the three data centers. The cluster nodes that host the application need a layer 2 topology to communicate with each other. Which Cisco ACI topology design meets these requirements?

- A. Multi-site
- B. Multi-pod over MP-BGP EVPN
- C. Multi-cloud

D. Multi-pod over OSPF EVPN

Answer: A (LEAVE A REPLY)

Each data center has its own APIC cluster. This is multi-site setup.

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NEW QUESTION: 182

An engineer is implementing a storage area network where an NPV is used. The engineer notices that the servers in a storage farm are experiencing heavy traffic contention. The engineer needs to migrate traffic from heavily loaded server interfaces to interfaces with less load. When the new links are deployed, the existing traffic is not rebalanced as expected. Which feature must be used to meet these requirements?

- A. multiple VSAN support
- B. NPV
- C. DVM
- D. disruptive load balancing

Answer: B (LEAVE A REPLY)

NEW QUESTION: 183

An engineer is designing a data center that uses FCIP. How is QoS configured in this environment?

- A. A separate DSCP value and CoPP must be configured for all FCIP traffic and another for all of the FCIP in the data connection.
- B. A separate DSCP value must be configured for all FCIP VSAN traffic.
- C. A separate DSCP value and priority queuing must be configured for all FCIP traffic.
- D. Two separate DSCP values must be configured, one for all of the FCIP frames in the control TCP connection and another for all of the FCIP frames in the data connection.

Answer: D (LEAVE A REPLY)

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_0/configuration/guides/ipsvc/nxos/ipsvc/cfcip.html

NEW QUESTION: 184

Drag and drop the configurations from the left onto the correct policies on the right.

Answer:

NEW QUESTION: 185

A failure occurs on the network between two BFD and OSPF neighbors. Drag and drop the protocol actions from the left into the correct order on the right.

Answer:

NEW QUESTION: 186

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

- A. network speed

- B. GPU support
- C. storage capacity
- D. processor count

Answer: C (LEAVE A REPLY)

<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: 187

Which statement describes differences between training and inference in AI learning models?

- A. The training process is more optimized for low latency, which enables faster analysis of large datasets.
- B. The inference process requires high throughput to enable rapid training on large datasets.
- C. The training process is more computationally demanding because it processes new data.
- D. The inference process requires continuous model adjustments to maintain accuracy with new data.

Answer: C (LEAVE A REPLY)

NEW QUESTION: 188

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

Answer: B,C (LEAVE A REPLY)

Section: Compute Design

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

NEW QUESTION: 189

Which two naming formats identify target or initiator iSCSI nodes? (Choose two.)

- A. OUI
- B. WWN
- C. EUI
- D. WWPN
- E. IQN

Answer: (SHOW ANSWER)

NEW QUESTION: 190

A Cisco engineer is using a PowerShell script to create a service profile template on Cisco UCS Manager.

After defining the server pools and other templates, the engineer must ensure that the hosts are visible to the northbound SAN network and storage initiators. Which configuration must be applied to enable this capability?

A. Get-UcsApplianceCloud | Get-UcsVlan -Name ApplianceVlan | Add-UcsVlanMemberPortChannel - SwitchId A -PortId \$ap_pc.PortId

B. Swwpn.pool | Add-UcsWwnMemberBlock -From 20:00:00:24: B5:00:00:00 -To 20:00:00:24: B5:00:00:09

09

C. Get-UcsMacPool -lies <handle or name> default | Add-UcsMacMemberBlock 00:25: B5: 00: A0:00

00:25: B5:00:AO:08

D. Get-UcsApplianceCloud | Get-UcsVlan -name ApplianceVlan | Add-UcsVlanMemberPort -SwitchId A - SlotId 1 -PortId 15

Answer: (SHOW ANSWER)

NEW QUESTION: 191

A company has several data centers with hundreds of Cisco UCS blade chassis. A network consultant plans to active Cisco Discovery Protocol to the servers to facilitate Layer 1 troubleshooting. For security reasons, the company wants to restrict the servers from sending different MAC addresses to the fabric interconnect after the MAC address from the first packet is learned. Which two policies be modified to support this design? (Choose two.)

A. Pin Group Policy

B. Network Control Policy

C. vNIC Policy

D. vNIC Template Policy

E. Ethernet Adapter

Answer: B,D (LEAVE A REPLY)

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Network-Mgmt/4-0/b_UCSM_Network_Mgmt_Guide_4_0/b_UCSM_Network_Mgmt_Guide_4_0_chapter_01010.html

<https://jeremywaldrop.wordpress.com/2010/05/03/how-to-enable-cdp-on-cisco-ucs-vnics/>

NEW QUESTION: 192

An engineer enables the HSRP feature on a Cisco Nexus 7000 Series Switch. It must be ensured that the switch manages packets that are sent to the local vPC MAC address, remote vPC MAC address, and HSRP virtual MAC address.

Which command accomplishes this goal?

A. map-server

B. peer-gateway

C. peer-switch

D. hsrp preempt

Answer: (SHOW ANSWER)

NEW QUESTION: 193

An engineer must design a solution to divide the workload across two different data centers and achieve redundancy in case of the failure of either data center Which solution must the engineer choose?

A. single Cisco HyperFlex standard cluster

B. single Cisco HyperFlex stretched cluster

C. Cisco Hyperflex edge cluster

D. Cisco Hyperflex ROBO cluster

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 194

Drag and drop the Cisco Nexus 7000 Series Switch resources from the left onto the correct groups on the right.

Answer:

NEW QUESTION: 195

Refer to the exhibit. An engineer deployed a VXLAN fabric with this configuration:

* interface VLAN 100 on VTEP1 with no IP address

* interface VLAN 200 on VTEP4 with no IP address

Which set of actions must the engineer take to ensure that host A communicates with host B?

A. Associate VNI 20000 to VRF Web on VTEP1.

Associate VNI 10000 to VRF Application on VTEP1.

B. Associate VNI 10000 to VRF Application on VTEP4.

Associate VNI 20000 to VRF Web on VTEP1.

C. Associate VNI 20000 to VRF Application on VTEP1.

Associate VNI 20000 to VRF Web on VTEP1.

D. Associate VNI 10000 to VRF Web on VTEP4.

Associate VNI 10000 to VRF Application on VTEP1.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 196

Refer to the exhibit. A Cisco engineer is configuring a customer scenario with 2 x MDS 9000 switches 24 x UCS B200M6 blade servers. UCS 64S4 Fabric Interconnect in end-host mode and 3 x UCS 5108 server chassis with 2408 Fabric Extenders. The engineer installs 6 x SQL Server 2019 on all blades and then notices that there are read and write latencies. What is the best way to balance the utilization across the shared ports?

A. Enable "Only dedicate rate mode"

B. Change the assigned speed to 8 Gbps Auto.

C. Set 4 Gbps performance buffers

D. Disable restrictions on oversubscription ratios

Answer: (SHOW ANSWER)

Reference: https://www.cisco.com/en/US/docs/storage/san_switches/mds9000/sw/rel_3_x/configuration/guides/fm_3_2/gen2.html#wp1392649

When restrictions on oversubscription ratios are disabled, the bandwidth allocation among the shared ports is proportionate to the configured speed. (If the configured speed is auto, then bandwidth is allocated assuming a speed of 4 Gbps.) For example, if you have three shared ports configured at 1, 2, and 4 Gbps, then the allocated bandwidth ratio is 1:2:4. In Cisco SAN-OS Release 3.0 and later (or when restrictions on oversubscription ratios are enabled), port bandwidths are allocated in equal proportions, regardless of port speed, so, the bandwidth allocation for the same three ports mentioned in the example would be 1:1:1.

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NEW QUESTION: 197

A Cisco engineer is configuring Cisco Nexus 7000 Series Switches To simplify initial configuration verification and vPC+/HSRP troubleshooting, the engineer configures the primary vPC+ peer device with the FHRP active router highest priority The primary FHRP device responds to ARP requests, even though the secondary vPC+ device also forwards the data traffic Which configuration enables the Layer 3 connectivity from each vPC+ peer device?

- A. Set a restore timer that delays the vPC+ restart
- B. Configure a VLAN network interface for the same VLAN from both devices
- C. Ensure that the enhanced Layer 2 license has been installed.
- D. Manually configure virtual MAC addresses for any FHRP protocol

Answer: B (LEAVE A REPLY)

NEW QUESTION: 198

Which type fields can an engineer use to identify an iSCSI participant? (Choose two.)

- A. type
- B. preshared key
- C. port number
- D. identifying tag
- E. hostname

Answer: (SHOW ANSWER)

Section: Storage Network Design

Explanation/Reference: <https://en.wikipedia.org/wiki/ISCSI>

NEW QUESTION: 199

A network engineer must create a Fibre Channel fabric QoS design for an existing data center. The solution must provide relative bandwidth guarantees to application traffic, control latency, and prioritize application traffic.

Which mechanism must be deployed to support these requirements?

- A. traffic remarking
- B. traffic policing
- C. traffic shaping
- D. traffic classification

Answer: C (LEAVE A REPLY)

NEW QUESTION: 200

Which orchestration tool must be used to manage VXLAN fabrics and includes a built-in dashboard and real-time network health summary for managed devices?

- A. Cisco Intersight
- B. Puppet
- C. Cisco Nexus Dashboard Fabric Controller

D. Ansible

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 201

Which Cisco HyperFlex feature provides virtual machine-level cost scaling for desktop virtualization growth?

- A. HyperFlex Edge support
- B. encryption offload cards
- C. fabric interconnects
- D. dedicated compute nodes

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 202

An engineer finishes the initial set up of a VXLAN EVPN network. The engineer is asked to plan for external 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 solutions must be used to meet these requirements? (Choose two.)

- A. Distributed Anycast Gateway
- B. VRF-Lite
- C. Inter-Site Network
- D. DC Interconnect
- E. Spanning Tree Protocol

Answer: A,D ([LEAVE A REPLY](#))

[https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst9300/software/release/16-](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)

[12/configuration_guide/vxlan/b_1612_bgp_evpn_vxlan_9300_cg/configuring_evpn_vxlan_anycast_gateway.html](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>

NEW QUESTION: 203

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

Answer: B,C ([LEAVE A REPLY](#))

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

NEW QUESTION: 204

What are two advantages of using Cisco vPC over traditional access layer designs? (Choose two.)

- A. supports Layer 3 port channels
- B. disables spanning-tree
- C. no spanning-tree blocked ports

- D. uses all available uplink bandwidth
- E. maintains single control plane

Answer: C,D (LEAVE A REPLY)

Section: Network Design

Explanation/Reference: https://www.cisco.com/c/dam/en/us/td/docs/switches/datacenter/sw/design/vpc_design/vpc_best_practices_design_guide.pdf

NEW QUESTION: 205

Refer to the exhibit. A Cisco engineer is configuring a next-generation Cisco HyperFlex HX data platform with 2 x Cisco UCS 6248UP fabric interconnects, 8 x Cisco HX-Series HX240c-M4SX servers, plus 8 x Cisco UCS B200-M4 blade servers, Cisco UCS 5108 blade chassis, and Cisco UCS 2204XP fabric extenders. The solution is configured with HX Release 4.5(2a) using VMware ESXi 7.0 U2. After the engineer migrates all customer VMs to the new solution platform, the engineer decides to create HX Native snapshots for all the VMs. The engineer performs the operation and notices that some of the VMs are not creating snapshots. What is the most probable reason that the HX Native snapshots are not created?

- A. The servers have duplicate names
- B. The source disk is thick provisioned
- C. Virtual machines are in suspended state
- D. The node has insufficient datastore space

Answer: A (LEAVE A REPLY)

NEW QUESTION: 206

Which statement about Cisco UCS fabric interconnects running in end host mode is true?

- A. Only downstream MAC addresses are stored in the CAM table.
- B. Fabric Interconnects participate in the spanning tree.
- C. vPC-connected uplinks will forward on all of the paths.
- D. Broadcast and multicast can be received on all of the uplinks.

Answer: A (LEAVE A REPLY)

NEW QUESTION: 207

An engineer is experiencing performance issues on a cisco UCS blade server. The B-series blade server contains four CPUs, most of which are idle. The engineer notices that the CPU is suffering from too many requests sent by the NIC. Additionally, the number of queues appears to be insufficient and only a single CPU is processing the network traffic. Which policy must be used to alleviate these issues?

- A. Ethernet adapter
- B. vNIC placement
- C. LAN connectivity
- D. Dynamic vNIC connection

Answer: A (LEAVE A REPLY)

https://www.cisco.com/en/US/docs/unified_computing/ucs/sw/gui/config/guide/141/UCSM_GUI_Configuration_Guide_141_chapter19.html Ethernet adapter policy is the only policy that is having configuration that is related to CPU.

NEW QUESTION: 208

Refer to the exhibit A Cisco engineer is configuring a next-generation Cisco HyperFlex HX data platform with 2 x Cisco UCS 6248UP fabric interconnects. 8 x Cisco HX-Series HX240c-M4SX servers, plus 8 x Cisco UCS B200-M4 blade servers Cisco UCS 5108 blade chassis, and Cisco UCS 2204XP fabric extenders The solution is configured with HX Release 4 5(2a) using VMware

ESXi 7.0 U2 After the engineer migrates all customer VMs to the new solution platform, the engineer decides to create HX Native snapshots for all the VMs. The engineer performs the operation and notices that some of the VMs are not creating snapshots. What is the most probable reason that the HX Native snapshots are not created?

- A. Virtual machines are in suspended state
- B. The node has insufficient datastore space
- C. The source disk is thick provisioned
- D. The servers have duplicate names

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 209

An engineer must design a Cisco HyperFlex solution to support a virtualized environment in a single data center location. The design must consider these customer requirements:

a large-scale cluster with eight or more nodes

distributed high-performance file system for virtualized servers

high fault tolerance to multiple node failures

Which action meets these objectives?

- A. Create multiple datastores for storage of VM.
- B. Configure data destaging and deduplication
- C. Enable logical availability zones.
- D. Implement a replication factor of four.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 210

A network engineer is connecting a backup server to the given network. The server has three available physical Ethernet interfaces - dual 1Gbps interfaces, plus a single 10Gbps interface - and all devices support virtual port channels. The engineer must minimize backup time from hosts on the network, with a mandate for no single point of failure connectivity within the data center and the interfaces either active or passive. Which deployment model must the engineer use?

- A)
- B)
- C)
- D)

- A. Option B
- B. Option C
- C. Option A
- D. Option D

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 211

A company is planning to improve the segmentation of its data center network to isolate traffic of different clients across various parts of the facility. The solution must be highly scalable and provide flexible traffic isolation for a growing number of clients. Which action must be taken to best meet the requirements?

- A. Implement VRF-Lite to segment traffic between different network environments.
- B. Configure VXLAN Multi-Tenant mode to segregate traffic by using different network identifiers.
- C. Enable VXLAN with Border Gateway Protocol EVPN to provide separation and granular routing control.
- D. Implement VXLAN with IP-based VLAN segmentation to provide separation for each client while using standard Layer 3 routing.

Answer: C ([LEAVE A REPLY](#))

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NEW QUESTION: 212

A network engineer must perform a VMM integration for the VMWare vCenter platform with the Cisco ACI Fabric. The vCenter is already installed in one of the rack servers connected to ACI leaf switches in a vPC mode. Which type of management network must be used to integrate vCenter with ACI?

- A. ARC infra
- B. In-band management
- C. VLAN infra
- D. out-of-band management

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 213

Which two configurations allow for routing traffic between two VDCs? (Choose two.)

- A. Create a policy map in the default VDC that routes traffic between the VDCs.
- B. Create interfaces in the VDC that can be accessed by another VDC.
- C. Connect the VDCs to an external Layer 3 device.
- D. Create VRF-aware software infrastructure interfaces.
- E. Cross-connect the ports between the VDCs.

Answer: A,C ([LEAVE A REPLY](#))

NEW QUESTION: 214

Drag the appropriate from the left onto the current UDLD modes of operation on the right.

Answer:

NEW QUESTION: 215

After experiencing traffic disruptions from the failure of a single router, a customer asks an engineer to design a solution that will prevent this from occurring in the future. While examining the customer's environment, the engineer discovers that the routers are manufactured by a variety of different vendors, and they have varying amounts of CPU and memory resources. Additionally, several of the customer's applications require the ability to fine-tune the load-balancing parameters between multiple routers. Which solution should be used to meet these requirements?

- A. VRRP
- B. GLBP
- C. FHRP
- D. HSRP

Answer: A ([LEAVE A REPLY](#))

Load balancing can be done by having different VRRP groups and configuring different servers with different default gateways. HSRP and GLBP are Cisco proprietary.

NEW QUESTION: 216

Drag and drop the data center technologies from the left onto the correct descriptions on the right. Not all technologies are used.

Answer:

NEW QUESTION: 217

A Cisco UCS instance has four interfaces on a UCS VIC. Where on the fabric interconnect does each interface terminate?

- A. vPC
- B. virtual interface
- C. port channel
- D. physical port

Answer: B (LEAVE A REPLY)

Section: Compute Design

Explanation/Reference: <https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-6300-series-fabric-interconnects/cisco-unified-fabric.pdf>

NEW QUESTION: 218

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. 2240 bytes
- C. 2000 bytes
- D. 2158 bytes

Answer: C (LEAVE A REPLY)

NEW QUESTION: 219

Which multicast rendezvous point redundancy mode is valid for Bidirectional PIM?

- A. Embedded RP
- B. Phantom RP
- C. MSDP
- D. PIM anycast RP

Answer: D (LEAVE A REPLY)

Reference: https://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/ip-multicast/whitepaper_c11-508498.html

NEW QUESTION: 220

An engineer must connect a Cisco UCS Fabric Interconnect to a storage array using a Fibre Channel protocol. The SAN must be directly connected to the UCS fabric interconnects using ports 1/1 and 1/2. Which fabric interconnect configuration must be used?

- A. Fcore Channel switching mode, and ports as Fibre Channel storage port
- B. Fibre Channel end-host mode, and ports as Fibre Channel uplink port
- C. Fibre Channel switching mode, and ports as Fibre Channel uplink port
- D. Fibre Channel end-host mode, and ports as Fibre Channel storage port

Answer: (SHOW ANSWER)

NEW QUESTION: 221

A network architect needs secure access to the organization's perimeter routers and firewalls. The administrator must access network devices from a remote location that is reachable from the WAN cloud. Which action meets these requirements?

- A. Create an in-band network management network
- B. Enable the SSH protocol with a strong username and password using an internet link for management purposes
- C. Create a secure IPsec tunnel interface using an internet link for device management purposes
- D. Create an out-of-band network management network

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 222

Which authentication software natively runs within the CLI of Cisco NX-OS devices?

- A. Ansible
- B. Puppet
- C. Python
- D. Chef

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 223

Which two statements describe Ethernet switching mode on Cisco UCS 6100 Series Fabric Interconnects? (Choose two.)

- A. STP runs on the server ports.
- B. The STP parameter configuration is supported.
- C. The STP parameter configuration is unsupported.
- D. STP runs on the uplink ports of each VLAN, as defined by PVSTP+.
- E. STP runs on the uplink ports of each VLAN, as defined by MSTP.

Answer: C,D ([LEAVE A REPLY](#))

NEW QUESTION: 224

An engineer must configure a new maintenance policy that will apply to multiple Cisco UCS domains. The policy must be available for use by service profiles and service profile templates created and managed in either Cisco UCS Manager or Cisco UCS Central. Changes to this policy must be allowed only in Cisco UCS Central.

Which policy type must the engineer select to accomplish these goals?

- A. global pokey
- B. hybrid policy
- C. local policy
- D. central policy

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 225

An engineer must design the compute portion of a data center environment. The environment includes:

- direct-attach Fibre Channel storage array with four 32 G Fibre

Channel ports per controller

- Cisco UCS B-series servers equipped with Cisco UCS IOM 2408 Fabric

Extenders

- Cisco 6454 Fabric Interconnects

The fabric interconnects connect to the LAN via 100G ports, the SAN via 32 G Fibre Channel ports, and the IOM 2408 via 10 G ports. Which storage connectivity strategy must the engineer choose?

A. UCS: Qty four 802.1q trunks from each IOM to each fabric interconnect Storage: Qty two Fibre Channel links from each SAN controller to each fabric interconnect

B. UCS: two-port PortChannel from each IOM to each fabric interconnect

Storage: Qty four Fibre Channel links from each SAN controller to each fabric interconnect

C. UCS: four-port back-to-back PortChannel between IOM and fabric interconnect Storage: two-port SAN-PortChannel from each SAN controller to each fabric interconnect

D. UCS: four-port PortChannel from each IOM to each fabric interconnect Storage: four-port SAN-PortChannel from each SAN controller to each fabric interconnect

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 226

An engineer must connect an existing Cisco UCS Fabric Interconnect to an IP-based storage array. The connection must be a port channel made directly between the fabric interconnect expansion module and the storage array. The engineer must also consider that the environment is running FCoE for storage and uses QoS to prioritize traffic.

Which port type should be used to meet these requirements?

A. server

B. network

C. uplink

D. appliance

Answer: **C** ([LEAVE A REPLY](#))

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NEW QUESTION: 227

A data center with over 4000 VLANs must be stretched to a disaster recovery site. The solution must support the migration of virtual machines to a disaster recovery site. To support the scalability of the solution, the internal fabric of the main site must be from the DCI network. The connecting network infrastructure uses a

10 Gbps link with PIM ASM supported, which will be replaced with a different overlay in the next 12 months. The solution must support head-end replication for broadcast, unknown unicast, and multicast traffic.

Which solution must be used to meet these requirements?

A. VXLAN Multi-Site

B. MPLS over GRE

C. LISP

D. OTV

Answer: **A** ([LEAVE A REPLY](#))

NEW QUESTION: 228

An engineer designs a Cisco UCS solution that must provide guaranteed and deterministic bandwidth to a specific server in the environment. The solution must apply to network and storage traffic of C-Series and BSeries servers.

Which solution should be included to meet these requirements?

- A. Pin the server ports of the service profile to dedicated uplink ports.
- B. Pin the vNICs and the vHBAs of the service profile to dedicated uplink ports.
- C. Pin the vNICs and vHBAs of the service profile to dedicated server ports.
- D. Pin the IOM ports of the service profile to dedicated server ports.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 229

The management of the Cisco Nexus switches is provided over an isolated out-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.

Answer: C ([LEAVE A REPLY](#))

Section: Network Design

NEW QUESTION: 230

A network engineer must design a UCS SAN configuration for vNIC port eth0, which is currently configured directly via the adaptor. The engineer set the Connection Policies option to VMQ and selected a VMQ Connection Policy named Primary-Cluster. What happens to the eth0 running configuration when the configuration is applied?

- A. The existing Adaptor Policy configuration remains active until it is removed.
- B. The new policy overrides the Adaptor Policy configuration.
- C. The existing Adaptor Policy configuration remains active until it is disabled.
- D. The new policy becomes active only when the same policy is applied to vNIC port eth1.

Answer: B ([LEAVE A REPLY](#))

When you assign a VMQ Connection Policy directly to a vNIC (eth0), UCS applies that policy immediately and its settings take precedence over any Adapter Policy. The Adapter Policy is effectively superseded by the vNIC-level policy as soon as the configuration is pushed.

NEW QUESTION: 231

A network engineer needs to design Layer 2 connectivity for a subnet between two data centers using VXLAN with Cisco Nexus switches. The engineer must ensure seamless host mobility and optimal first-hop routing. Which gateway MAC attribute must be synchronized across both data centers?

- A. VRRP
- B. multicast
- C. HSRP
- D. anycast

Answer: (SHOW ANSWER)

NEW QUESTION: 232

Refer to the exhibit.

An engineer must assign multiple Fibre Channel IDs to a single port channel. Which two features must be enabled this goal? (Choose two.)

- A. end-host mode feature on the Cisco UCS Fabric Interconnects
- B. NPV feature on the Cisco MDS Series.
- C. NPIV feature on the Cisco MDS Series
- D. Smart Zoning feature on the Cisco UCS Fabric Interconnects
- E. SAN Pin Groups on the Cisco UCS Fabric Interconnects.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 233

Which orchestration tool should be used for the management and analytics of servers across multiple sites?

- A. Cisco Intersight
- B. Cisco Nexus Fabric Manager
- C. Cisco UCS Manager
- D. Cisco Data Center Network Manager

Answer: ([SHOW ANSWER](#))

Reference: https://www.cisco.com/c/en_in/products/servers-unified-computing/intersight/index.html

NEW QUESTION: 234

A network engineer must design a Cisco HyperFlex solution based on these requirements:

- two clusters in the main data center consisting of five HyperFlex nodes
- one edge node for the remote branch
- cluster nodes that use one rack unit of space

Which two devices should be used in the remote branch cluster for this design? (Choose two.)

- A. UCS B200
- B. Gigabit Ethernet Switch
- C. Fabric Interconnect 6300
- D. HX240c
- E. HX220c

Answer: ([SHOW ANSWER](#))

HX240 is excluded because it is 2RU, while the requirement is to have one rack unit of space.

UCS B200 and FI 6300 are excluded because the solution is required in a branch.

https://www.cisco.com/c/en_in/products/hyperconverged-infrastructure/hyperflex-hx240c-m4-nodes-ucs-b200-blade-servers/index.html

NEW QUESTION: 235

Drag and drop the configurations from the left onto the correct policies on the right.

Answer:

NEW QUESTION: 236

After experiencing traffic disruptions from the failure of a single router, a customer asks an engineer to design a solution that will prevent this from occurring in the future. While examining the customer's environment, the engineer discovers that the routers are manufactured by a variety of different vendors, and they have varying amounts of CPU and memory resources.

Additionally, several of the customer's applications require the ability to fine-tune the load-balancing parameters between multiple gateway routers.

Which solution should be used to meet these requirements?

- A. VRRP
- B. FHRP
- C. HSRP
- D. GLBP

Answer: A (LEAVE A REPLY)

Load balancing can be done by having different VRRP groups and configuring different servers with different default gateways. HSRP and GLBP are Cisco proprietary.

NEW QUESTION: 237

Refer to the exhibit.

A cloud service provider deployed three geographically separated Cisco ACI data centers. One of the customers needs to host a clustered application that is spread across the three data centers.

The cluster nodes that host the application need a Layer 2 topology to communicate with each other.

Which Cisco ACI topology design meets these requirements?

- A. Multi-Pod over OSPF EVPN
- B. Multi-Pod over MP-BGP EVPN
- C. Multi-Site
- D. Multi-Cloud

Answer: B (LEAVE A REPLY)

NEW QUESTION: 238

A company has several data centers around the world that must be interconnected over Layer2.

The service provider supports MPLS services to all the locations. The proposed solution must be vendor agnostic and scalable enough to support the rapid growth of the company.

Which data center technology is recommended to achieve this goal?

- A. VXLANEVPN
- B. OTV
- C. EoMPLS
- D. FabricPath

Answer: A (LEAVE A REPLY)

NEW QUESTION: 239

Drag the requirements from the left onto the correct policy types on the right.

Answer:

NEW QUESTION: 240

An engineer must use OTV for layer 2 connectivity between data centers to support virtual machine between the customer sites. To support this requirement, the engineer must ensure the existence of the same default gateway on both sites. Additionally, the operations team report high bandwidth utilization on site A and wants to optimize the outbound traffic flows to use a DC exit point. Which feature must be used to meet these requirement?

- A. FHRP filter

- B. Control group
- C. Data group
- D. ARP filter

Answer: ([SHOW ANSWER](#))

https://www.cisco.com/c/dam/en/us/products/collateral/switches/nexus-7000-series-switches/guide_c07-728315.pdf

NEW QUESTION: 241

A data center with over 4000 VLANs must be stretched to a disaster recovery site. The solution must support the migration of virtual machines to a disaster recovery site. To support the scalability of the solution, the internal fabric of the main site must be from the DCI network. The connecting network infrastructure uses a 10 Gbps link with PIM ASM supported, which will be replaced with a different overlay in the next 12 months. The solution must support head-end replication for broadcast, unknown unicast, and multicast traffic. Which solution must be used to meet these requirements?

- A. LISP
- B. VXLAN Multi-Site
- C. OTV
- D. MPLS over GRE

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 242

Drag and drop the data center technologies from the left onto the correct descriptions on the right. Not all technologies are used.

Answer:

NEW QUESTION: 243

An engineer must connect a new storage appliance to a Cisco UCS domain.

- The storage array must be directly attached to Cisco UCS fabric interconnects.
- Connectivity between UCS and SAN must use 10 Gigabit Ethernet.
- The solution should use lossless QoS system class.
- Network and storage traffic must traverse different uplinks.

Which port types must be used between the fabric interconnect and the storage appliance?

- A. Fibre Channel storage port
appliance port
- B. Fibre Channel storage port
Ethernet uplink port
- C. FCoE storage port
appliance port

D. FcoE uplink port
Ethernet uplink port

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 244

An engineer finishes the initial set up of a VXLAN EVPN network. The engineer is asked to plan for external 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 solutions must be used to meet these requirements? (Choose two.)

- A. Distributed Anycast Gateway
- B. VRF-Lite
- C. DC Interconnect
- D. Spanning Tree Protocol
- E. Inter-Site Network

Answer: (SHOW ANSWER)

NEW QUESTION: 245

An engineer working for a private telecommunication company with an employee ID 4419 90 979 is installing a pair of Nexus 7000 Series Switches and must deploy the solution with these requirements:

- The environment must be separated for test and production purposes
- The separation should include control, data and management plane with fault domain isolation and improved security
- The test environment needs only F2 series line cards and a maximum of 256 VLANs

Which set of actions meets these requirements?

A. Use VDC for each of the environments

Configure limit-resource module-type functionality for the test VDC

Enable limit resource vlan for the test VDC.

B. Use VRF faQUmlife environments

Configure allow feature set for both VRFs

Enable limit-resource vlan minimum for the test VRF

C. Use VRF for each of the environments

Configure limit-resource module-type functionality for the test VDC.

Enable module-type for the VRF

D. Use VDC for each of the environments

Configure allow feature set for both VRFs

Enable limit-resource vlan maximum for the test VRF

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 246

Drag and drop the data center technologies from the left onto the correct descriptions on the right. Not all technologies are used.

Answer:

NEW QUESTION: 247

An engineer must design a multitenant solution using Cisco 7709 switches. The solution must support separate routing instances, separate spanning tree domains, and separate firewalls for each tenant. Which solution meets these requirements?

- A. VRF
- B. vPC
- C. VDC
- D. CFS

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 248

A client in a commercial building installs a Cisco blade server in the multitenant Cisco UCS blade Infrastructure. To cut operating costs the client's data center is shared with other organizations. The client asks an engineer prevent third parties from accessing their equipment and from accessing BIOS-related information when booting a server. Which Two policies must be used to meet these requirements? (Choose two.)

- A. quiet boot
- B. post error pause
- C. ASPM support
- D. CDN control
- E. front panel lockout

Answer: (SHOW ANSWER)

[https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Server-](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Server-Mgmt/3-2/b_Cisco_UCS_Manager_Server_Mgmt_Guide_3_2/b_Cisco_UCS_Manager_Server_Mgmt_Guide_3_2_chapter_01110.html)

[Mgmt/3-2/b_Cisco_UCS_Manager_Server_Mgmt_Guide_3_2/b_Cisco_UCS_Manager_Server_Mgmt_Guide_3_2_chapter_01110.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Server-Mgmt/3-2/b_Cisco_UCS_Manager_Server_Mgmt_Guide_3_2/b_Cisco_UCS_Manager_Server_Mgmt_Guide_3_2_chapter_01110.html) Quiet boot is what the BIOS displays during booting the server. If enabled, the BIOS displays the logo screen.

I believe that quiet boot and CDN control may have the customer name.

NEW QUESTION: 249

Refer to the exhibit A Cisco engineer is configuring Cisco Nexus 7000 Series Switches. To simplify initial configuration verification and vPC+/HSRP troubleshooting, the engineer configures the primary vPC+ peer device with the FHRP active router highest priority. The primary FHRP device responds to ARP requests, even though the secondary vPC+ device also forwards the data traffic. Which configuration enables the Layer

3 connectivity from each vPC* peer device?

- A. Manually configure virtual MAC addresses for any FHRP protocol.
- B. Configure a VLAN network interface for the same VLAN from both devices.
- C. Ensure that the enhanced Layer 2 license has been installed.
- D. Set a restore timer that delays the vPC+ restart.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 250

An engineer is expanding an existing iSCSI environment and must choose an addressing scheme. When checking one of the devices, the engineer discovers this target device naming used {prefix}. 2019-01.com.acme.123:00. ftd0cb21.bcb389458389

Which addressing scheme was used in the environment?

- A. Network Address Authority
- B. Fibre Channel ID

- C. iSCSI Qualified Name
- D. Extended Unique identifier

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 251

Drag and drop the components from the left onto the descriptions on the right that indicate what occurs to Fibre Channel fabric when that component fails.

Answer:

NEW QUESTION: 252

Drag and drop the technologies from the left onto the correct descriptions on the right.

Answer:

NEW QUESTION: 253

A failure occurs on the network between two BFD and OSPF neighbors. Drag and drop the protocol actions from the left into the correct order on the right.

Answer:

NEW QUESTION: 254

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. PVSTP
- C. BGP-EVPN
- D. DMVPN

Answer: A ([LEAVE A REPLY](#))

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: 255

Refer to the exhibit. An engineer must assign multiple Fibre Channel IDs to a single port channel.

Which two features must be enabled this goal? (Choose two.)

- A. SAN Pin Groups on the Cisco UCS Fabric Interconnects.
- B. NPV feature on the Cisco MDS Series.
- C. end-host mode feature on the Cisco UCS Fabric Interconnects
- D. NPIV feature on the Cisco MDS Series
- E. Smart Zoning feature on the Cisco UCS Fabric Interconnects

Answer: C,D (LEAVE A REPLY)

N-Port ID Virtualization (NPIV)

NPIV allows a Fibre Channel host connection or N-Port to be assigned multiple N-Port IDs or Fibre Channel IDs (FCID) over a single link. All FCIDs assigned can now be managed on a Fibre Channel fabric as unique entities on the same physical host. Different applications can be used in conjunction with NPIV. In a virtual machine environment where many host operating systems or applications are running on a physical host, each virtual machine can now be managed independently from zoning, aliasing, and security perspectives.

<https://community.cisco.com/t5/unified-computing-system/npiv-npv-in-ucs/td-p/3356950>

<https://www.cisco.com/c/en/us/support/docs/storage-networking/mds-9000-series-multilayer-switches/200127-N-Port-Identifier-Virtualization-NPIV.html>

<https://www.ciscolive.com/c/dam/r/ciscolive/apjc/docs/2016/pdf/BRKCOM-2007.pdf>

NEW QUESTION: 256

BGP and VRF configurations are already in place. An engineer must leak routes from the default VRF to TENANT_1 VRF and TENANT_2 VRF, but not between the nondefault VRFs. Which feature allows the engineer to accomplish this task?

- A. route distinguishers
- B. route targets
- C. VRF default map
- D. BGP redistribution

Answer: B (LEAVE A REPLY)

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NEW QUESTION: 257

A network engineer designs a Cisco Nexus data center network for a client-server farm using a pair of Nexus 9000 Series Switches in a vPC setup. Each server connects with two interfaces to both Nexus switches. The Nexus switches must always initiate the negotiation with the server.

Which feature should be used in this design to ensure traffic is forwarded from the server to the data center network?

- A. PAgP mode desirable
- B. LACP mode auto
- C. LACP mode active
- D. PAgP mode auto

Answer: C (LEAVE A REPLY)

Servers cannot support PAgP.

https://www.cisco.com/c/en/us/td/docs/ios/12_2sb/feature/guide/gigeth.html

NEW QUESTION: 258

Which programming model is vendor-agnostic and uses separate containers or models for operational and configuration data?

- A. IETF YANG
- B. native YANG
- C. OpenConfig YANG

D. open YANG

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 259

An engineer must use OTV for layer 2 connectivity between data centers to support virtual machine between the customer sites. To support this requirement, the engineer must ensure the existence of the same default gateway on both sites. Additionally, the operations team report high bandwidth utilization on site A and wants to optimize the outbound traffic flows to use a DC exit point. Which feature must be used to meet these requirement?

- A. FHRP filter
- B. Control group
- C. Data group
- D. ARP filter

Answer: A ([LEAVE A REPLY](#))

Reference:

NEW QUESTION: 260

A network engineer designs a virtual network in a Cisco UCS Manager. The traffic must be explicitly forwarded from the vNIC on the server to a specific uplink Ethernet port on the Cisco fabric interconnect. Also, the server vNIC must use the same uplink Ethernet port after reboot. Finally, the design requires a OoS policy for remote direct memory access over converged Ethernet (RoCE v2). Which set of design features meets these requirements?

- A. vNIC pool and Silver priority
- B. vNIC template and Gold priority
- C. server VLAN pool and Gold priority
- D. LAN pin group and Platinum priority

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 261

Refer to the exhibit. A customer must ensure that the interface on a switch has enough resources to sustain the line rate traffic during peak load. Which action meets this requirement?

- A. Change the rate mode to dedicated.
- B. Increase the data field size to 9000 bytes.
- C. Change the port mode to NL.
- D. Set Transmit B2B credit to 16.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 262

Which feature must be configured to connect a classical Ethernet network to a data center network so that the data center network appears to be one large switch.

- A. VPC+
- B. UDLD
- C. EVPN
- D. OSPF

Answer: A ([LEAVE A REPLY](#))

A vPC allows links that are physically connected to two different Nexus switches to appear as single portchannel to a server or another switch.

NEW QUESTION: 263

A network architect designs a high-availability architecture for the Cisco UCS Fabric interconnects that installed in a data center. The architecture must support clustering and redundancy. Which architecture meets these requirements?

- A. dual connections from port L1 to L1 and one connection from port L1 to L1 with twinax cables
- B. dual connections from port L1 to L1 and one connection from port L2 to L2 with Ethernet cables
- C. dual connections from port L1 to L2 and one connection from port L2 to L1 with Ethernet cables dual
- D. dual connections from port L1 to L2 and one connection from port L2 to L1 with twinax cables

Answer: B ([LEAVE A REPLY](#))

Reference:

NEW QUESTION: 264

A customer needs a design for a new network. VLANs must be dynamically provisioned based on the information received from connected hosts. No Layer 2 or Layer 3 configuration must be performed on the related switch ports.

Which feature must be used?

- A. Network PnP
- B. iPXE
- C. VM Tracker
- D. POAP

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 265

Which Cisco HyperFlex feature provides virtual machine cost scaling for desktop virtualization growth?

- A. HyperFlex Edge support
- B. Fabric Interconnects
- C. encryption offload cards
- D. dedicated compute cards

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 266

Drag the requirements from the left onto the correct policy types on the right.

Answer:

NEW QUESTION: 267

Which two configurations are available by using a service profile template in Cisco UCS Manager? (Choose two.)

- A. number of vHBAs
- B. ARP entries
- C. UUID assignment
- D. VXLAN membership
- E. target server

Answer: A,C ([LEAVE A REPLY](#))

Reference: https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/cli/config/guide/2-2/b_UCSM_CLI_Configuration_Guide_2_2/b_UCSM_CLI_Configuration_Guide_2_2_chapter_0100000.html

NEW QUESTION: 268

Refer to the exhibit.

Server 1 fails to connect to the storage array over the Storage Area Network (SAN) of the Cisco NDS 9000 Series Switch. The requirements are to redesign the storage network and keep these considerations in mind:

- * The traffic from each of the server must be redundant and isolated.
- * The design must tolerate hardware and software failures and upgrades of SAN fabric devices.

Which action must be taken to meet these requirements?

- A. Place an additional Fibre Channel switch to create two physically independent storage fabrics.
- B. Create a SAN port channel that faces the storage device to sustain a link failure.
- C. Add an additional supervisor to the Fibre Channel switch to support nondisruptive upgrades.
- D. Enable NPV and F-Port-channel on ports that face Server 1 on the Fibre Channel switch to create redundant paths.

Answer: A (LEAVE A REPLY)

NEW QUESTION: 269

What influences the number of ISLs that are required between Cisco MDS Series switches?

- A. FCoE protocol
- B. type of storage
- C. end-to-end oversubscription ratio
- D. N Port virtualization

Answer: C (LEAVE A REPLY)

The number of ISLs required between Cisco MDS switches will depend on the desired end-to-end oversubscription ratio. The storage port oversubscription ratio from a single storage port to multiple servers can be used to help determine the number of ISLs needed for each edge-to-core connection.

NEW QUESTION: 270

An engineer must choose the World Wide Port Name for the Cisco UCS Fibre Channel virtual host bus adapter.

Which identifier must be used?

- A. fe80::314e:4566:8702:bf3d
- B. 20:00:00:25:B5:97:c3:ac
- C. naa.600a09840691712159764d
- D. iqn.2021-08.com.acme:3xxx

Answer: (SHOW ANSWER)

NEW QUESTION: 271

A company has added a new FCoE storage array to increase the performance of datastore access for end users. This storage array is directly connected to the Cisco Nexus 5672UP switches using four 10G port-channel interfaces. After deployment, the end users fail to access the datastore compared to the older solution.

A network engineer verified the port-channel interface and finds that the congestion occurs when PFC frames are generated at the FCoE ingress interface. Which action must be taken to resolve the congestion issue?

- A. Reserve bandwidth for FCoE VLAN on the port-channel interface connected with storage.

- B. Enable the FCoE class in QoS on Cisco Nexus 5672UP switches.
- C. Increase the queuing buffer in the port-channel interface connected to the storage array.
- D. Add an additional FCoE VLAN to the SAN network.

Answer: B (LEAVE A REPLY)

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/qos/513_n1_1/b_cisco_nexus_5000_qos_config_gd_513_n1_1/b_cisco_nexus_5000_qos_config_gd_513_n1_1_chapter_011.html

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NEW QUESTION: 272

Drag and drop the Cisco Nexus 7000 Series Switch resources from the left onto the correct groups on the right.

Answer:

NEW QUESTION: 273

Drag and drop the SAN components from the left onto the correct design considerations on the right.

Answer:

NEW QUESTION: 274

A network administrator must create a redundant vHBA for the mission-critical virtual machines (VMs) installed on a Cisco UCS Fabric Interconnect blade server. The VMs access multiple datastores using VSAN55 and VSAN95. The datastore on which the VMs are hosted must be accessible if any of the uplinks goes offline. Which action meets these requirements?

- A. Enable failover for the vHBA with VSAN55 and VSAN95 enabled.
- B. Attach VSAN55 to vHBA1 and VSAN95 to vHBA2.
- C. Configure load-balancing for vHBAs with VSAN55 and VSAN95 attached.
- D. Assign VSAN55 and VSAN95 to vHBA1 and vHBA2.

Answer: (SHOW ANSWER)

NEW QUESTION: 275

An engineer must interconnect two data centers to support the dynamic virtual machine migration. The data centers are currently interconnected using an IPv4 network. However, the data plane encapsulation of the underlay network is expected to change next year. To meet the VM migration requirement, the solution must track MAC route changes, update all other remote devices simultaneously and prevent excessive MAC flapping with broadcast and unicast traffic loops. The company must also use networking equipment from different manufacturers to prevent vendor-locking. Which solution meets these requirements?

- A. OTV
- B. EVPN
- C. VXLAN
- D. EoMPLS

Answer: (SHOW ANSWER)

NEW QUESTION: 276

An engineer configured the OSPF protocol in the vPC topology. During the catastrophic failure of one of the vPC member switches, the traffic was routed to a black hole. This route was caused by the long convergence time caused by the delay of the vPC member switch reboot. After the failure, the engineer rebooted both switches, but the secondary switch powered on before the primary one. It caused all the vPCs to be shut down due to consistency-check violations.

Which two features must be used to prevent these situations from happening in the future? (Choose two.)

- A. system priority
- B. ip arp synchronize
- C. peer-gateway
- D. delay restore
- E. auto-recovery

Answer: D,E (LEAVE A REPLY)

NEW QUESTION: 277

A customer needs a design for a new network VLANs must be dynamically provisioned based on the information received from connected hosts No Layer 2 or Layer 3 configuration must be performed on the related switch ports. Which feature must be used?

- A. Network PnP
- B. iPXE
- C. VM Tracker
- D. POAP

Answer: D (LEAVE A REPLY)

NEW QUESTION: 278

A customer needs to deploy a three-tier network architecture that will consist of web, and other business- critical applications. The solution will include Cisco UCS 6324 Fabric interconnects managing B and C Series servers The Fabric interconnects will be connected to the cisco nexus 7706 series switch for network access.

A storage array will be directly connected to the UCS deployment. Which type must be used to meet these requirements?

- A. UCS Interconnect in Ethernet end-host mode
UCS Interconnect in Fibre Channel switching mode
Fabric Interconnects uplinked to the Nexus device using an LACP port-channel in active mode
- B. UCS Interconnect in Ethernet switching mode
UCS interconnect to Fibre Channel switching mode
Fabric Interconnect uplinked to the Nexus device using an LACP port-channel in passive mode
- C. UCS Interconnect in Ethernet end-host mode
UCS Interconnect in Fibre Channel end-host mode
Fabric Interconnect uplinked to me Nexus device using an LACP port-channel in passive mode
- D. UCS Inter conned in Ethernet switching mode
UCS interconnect in Fibre Channel end-host mode
Fabric Interconnects uplinked to the Nexus device using an LACP port-channel in active mode

Answer: A (LEAVE A REPLY)

FC must be in switching mode for Direct Attached Storage.

NEW QUESTION: 279

An architect needs vendor-agnostic technology to orchestrate and automate a customer network with scripts.

The technology must support running ad-hoc scripts from the CLI and support a deployment of scripts based on a large, readily available set of support libraries. Which technology must the architect choose?

- A. Cisco Power Tool
- B. Python
- C. Cisco Intersight
- D. Puppet

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 280

Drag and drop the technologies from the left onto the correct descriptions on the right.

Answer:

NEW QUESTION: 281

What are two functions of a Network Services Orchestrator in an NFV environment? (Choose two.)

- A. It operates at the resource-facing services layer and provides overall lifecycle management at the network service level.
- B. It provides an API-based northbound interface for transparent integration with systems that operate at the resource-facing services layer.
- C. It provides a standards-based southbound interface for transparent integration with systems that operate at the customer-facing services layer.
- D. It provides a standards-based northbound interface for transparent integration with systems that operate at the customer-facing services layer.
- E. It operates at the customer-facing services layer and provides the management interface for the virtual network devices.

Answer: A,B ([LEAVE A REPLY](#))

https://www.cisco.com/c/en/us/td/docs/net_mgmt/msx/3_4/solution_overview/Cisco_VMS_Sol_Overview.pdf

NEW QUESTION: 282

Refer to the exhibit.

A Cisco UCS chassis that has two IOMs is discovered. The chassis discovery policy creates a fabric port channel. What is the result of this policy?

- A. The port channel is disabled until an administrator enables it manually.
- B. Cisco UCS Manager creates two separate fabric port channels.
- C. Cisco UCS Manager creates a single fabric port channel.
- D. Each uplink that connects an IOM is configured as a discrete link.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 283

Drag the requirements from the left onto the correct policy types on the right.

Answer:

NEW QUESTION: 284

A data center uses Cisco Nexus 7000 Series Switch and contains two tenants, tenant A and tenant B.

- Tenant A uses IP addresses in the 10.2.30.41/24 to 10.2.30.64/24 range.

- Tenant B uses IP addresses in the 10.2.30.120/24 to 10.2.30.192/24 range.

The engineer must implement a solution that

- Isolates the traffic for each tenant as separate routing data and control planes.

- Physically partitions the Cisco Nexus device into separate multiple logical devices with separate management, failure domain isolation, and resource management.

Which two technologies meet these requirements? (Choose two.)

- A. VXLAN
- B. VRF
- C. VDC
- D. vPC
- E. VLAN

Answer: B,C (LEAVE A REPLY)

NEW QUESTION: 285

Drag and drop the data center technologies from the left onto the correct descriptions on the right. Not all technologies are used.

Answer:

NEW QUESTION: 286

Which two automation requirements can be met by using Puppet? (Choose two.)

- A. Push configuration updates immediately to servers.
- B. Enable clients to pull changes to configuration files.
- C. Enable clients to pull changes without installing an agent.
- D. Provide support for writing new modules in Python.
- E. Enable one-off infrastructure changes to be performed manually.

Answer: A,B (LEAVE A REPLY)

<https://blogs.cisco.com/datacenter/cisco-nx-os-and-puppet-agentless-data-center-automation>

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NEW QUESTION: 287

Refer to the exhibit.

A default route must be advertised into the VXLAN fabric for internet access. The engineer must use a static route because the edge firewall does not support any dynamic routing protocol. Which two features must the engineer use to allow learning and withdrawing of the default route without any manual intervention? (Choose two)

- A. IP forwarding
- B. HMM tracking

- C. anycast gateway
- D. Network Address Translation
- E. policy-based routing

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 288

A storage administrator receives reports of network delays when database software attempts to access the storage array.

The virtual machines that host the database software are installed on different rack servers connected to the Cisco UCS Fabric Interconnect domain. The existing SAN switches are connected to the Fabric Interconnects using two 8 Gb port-channel interfaces to connect the storage array. The storage administrator has decided to deploy iSCSI storage with four 10 Gbps interfaces connected to the Cisco UCS Fabric Interconnects.

Which deployment type resolves the problems with storage contention?

- A. iSCSI storage appliance on Cisco UCS Fabric Interconnect in the storage end-host mode
- B. iSCSI storage with Cisco UCS Fabric Interconnect in the virtual port-channel mode
- C. iSCSI storage with Cisco UCS Fabric Interconnect using an appliance port
- D. iSCSI storage appliance on Cisco UCS Fabric Interconnect uplink trunk port

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 289

An engineer must build a VXLAN flood-and-learn network. The customer requires the solution to be based on the IETF documented practice in RFC 7348. The solution must use broadcast, unknown unicast, and multicast (BUM) and include the efficient BUM and short BUM replication modes that use only shared trees.

Which technology meets these requirements?

- A. MVPN
- B. PIM sparse mode
- C. PIM SSM
- D. Bidirectional PIM

Answer: ([SHOW ANSWER](#))

Reference:

[flexpod_esxi70_vxlan_evpn_design.html](#)

NEW QUESTION: 290

Refer to the exhibit.

A Cisco UCS chassis that has two IOMs is discovered. The chassis discovery policy creates a fabric port channel. What is the result of this policy?

- A. Each uplink that connects an IOM is configured as a discrete link.
- B. The port channel is disabled until an administrator enables it manually.
- C. Cisco UCS Manager creates two separate fabric port channels.
- D. Cisco UCS Manager creates a single fabric port channel.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 291

A failure occurs on the network between two BFD and OSPF neighbors. Drag and drop the protocol actions from the left into the correct order on the right.

Answer:

NEW QUESTION: 292

What are two advantages of using Cisco vPC over traditional access layer designs? (Choose two.)

- A. supports Layer 3 port channels
- B. disables spanning-tree
- C. no spanning-tree blocked ports
- D. uses all available uplink bandwidth
- E. maintains single control plane

Answer: ([SHOW ANSWER](#))

Reference: https://www.cisco.com/c/dam/en/us/td/docs/switches/datacenter/sw/design/vpc_design/vpc_best_practices_design_guide.pdf

NEW QUESTION: 293

Drag and drop the data center technologies from the left onto the correct descriptions on the right. Not all technologies are used.

Answer:

NEW QUESTION: 294

What must be configured in Cisco Intersight when Enum is selected as the data type in a workflow input?

- A. Regex
- B. Secure
- C. Object Selector
- D. Widget type

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 295

A SAN engineer needs to connect a Fibre Channel storage array to a Cisco MDS 9000 Series Switch by using an 8-Gbps interface. The switch must meet these requirements:

- ensure storage resilience
- prevent oversubscription
- guarantee the highest line rate for traffic processing

Which configuration should be applied for the interface on the switch to meet these requirements?

- A. Configure the rate mode as shared.
- B. Set local buffering with B2B credits.
- C. Set global buffering with B2B credits.
- D. Configure the rate mode as dedicated.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 296

Refer to the exhibit. A Cisco engineer is configuring a Cisco UCS integrated infrastructure for SAP HANA that consists of 8 x Cisco UCS B/C480-M5 servers for SAP HANA and 4 x Cisco UCS C240-M5 C-Series rack mount servers for storage. The rack servers are equipped with Cisco VIC

1225T. The engineer plans to install RHEL8, but the boot process is interrupted at installation because the iSCSI LUNs are not recognized by the VIC adapter. After proper investigation, the engineer concludes that the initiator and target configuration that is programmed on the primary iSCSI VNIC to the operating system is missing. What is the reason for the issue?

- A. The storage system is not reachable

- B. The boot parameter ip=ibft is not set
- C. The Linux ISO image is not Cisco approved
- D. The network interfaces are not configured

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 297

A network design must include a solution to run CLI commands remotely on Cisco Nexus 9000 Series Switches. The customer's security policy requires secure login credentials and an encrypted underlying transport. The command output will be processed using tools that support XML or JSON encoding. Which two components should be included in the design? (Choose two.)

- A. SSH
- B. HTTPS
- C. Bash shell
- D. NX-API
- E. HTTP

Answer: A,B ([LEAVE A REPLY](#))

NEW QUESTION: 298

An engineer is installing a Cisco Nexus 7000 Series Switch with F2-Series I/O Module. The company's strict security policy requires that the port be in-band. The engineer must also keep these considerations in mind:

The customer's security requirements mandate the use of a secure management mechanism that supports authentication and encryption.

The port should support management over IP.

Which port type must be used to meet these requirements?

- A. management port
- B. connectivity management port
- C. console port
- D. Ethernet port

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 299

Which approach splits a pair of clustered fabric interconnects into two standalone devices?

- A. Run the disable fips-mode command on each fabric interconnect.
- B. Run the connect local-management command on each fabric interconnect.
- C. Erase the configuration of both fabric interconnects.
- D. Unplug the Layer 1 and Layer 2 interfaces between the devices.

Answer: (SHOW ANSWER)

Section: Compute Design

NEW QUESTION: 300

A midsize corporation with significant data-storage requirements is planning to deploy RFC 3720-based technology in its data center to provide efficient and reliable block-level storage access to servers. The corporation requires a robust solution with optimal performance, load-balancing, and fault tolerance. The solution must use multiple network paths to optimize bandwidth usage and provide redundancy. LACP has already been enabled on the data-center switches. Which two actions must be taken to accomplish the goal?

(Choose two.)

Implement VLAN tagging in accordance with the IEEE 802.10 standard to segregate iSCSI traffic from other data-center traffic

- A. Disable jumbo frames on the data center switches
- B. Implement VLAN tagging in accordance with the IEEE 802.1Q standard to segregate iSCSI traffic from other data-center traffic.
- C. Configure iSCSI MPIO software on the hosts
- D. Configure the iSCSI initiators and targets to use a single network path
- E. Implement MPIO with redundant network paths

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 301

Drag and Drop Question

A customer is deploying a SAN based on Cisco MDS 9000 Series Switches. Each Inter-Switch Link must carry multiple VSANs at the same time. The access switch must share the same domain ID as the director switch to reduce the number of domain IDs needed in the fabric. Drag and drop the operational port types from the right onto the boxes on the left to create a topology that meets these requirements. Not all port types are used. Port types are used more than once.

Answer:

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NEW QUESTION: 302

A company must introduce a scalable network automation tool to deploy, configure, and manage thousands of network devices and servers. 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 supports authentication and encryption for managing the servers.

Which two automation tools must be used to meet these requirements? (Choose two.)

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

Answer: A,C ([LEAVE A REPLY](#))

Both Ansible and SaltStack are agentless configuration management tools, which means that they do not require any software to be installed on the managed devices. This is important because the company's servers have already been security-hardened and must not have any additional software installed on them.

Both Ansible and SaltStack also support secure communication protocols that support authentication and encryption. Ansible uses SSH, while SaltStack uses its own proprietary protocol.

NEW QUESTION: 303

A storage engineer requires a solution that achieves multiple paths between a server and storage array. The design must support complete traffic isolation and support a 50% growth in the next year. Which FCoE solution meets these requirements?

- A. single switch with multiple links
- B. at least two VSANs across the fabric

- C. at least two FC zone sets with multiple zones
- D. single VSAN across the fabric

Answer: ([SHOW ANSWER](#))

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_2/configuration/guides/dmm/dmmcfg/toplgy.html

NEW QUESTION: 304

A network engineer is using a Cisco UCS environment connected to a Fibre Channel storage array. The Cisco UCS environment must be connected to an existing SAN network, and several Cisco MDS 9000 Series Switches must be added to increase storage density. The solution must not exhaust the SAN network from the list of available domain IDs after connecting. Also, most of the SAN traffic must be mapped from the Cisco UCS blades to a specific group of the fabric interconnect ports. Which two features must be deployed to meet these requirements? (Choose two.)

- A. static PIN grouping
- B. end host mode
- C. N-Port ID virtualization
- D. priority flow control
- E. dynamic port pinning

Answer: B,C ([LEAVE A REPLY](#))

NEW QUESTION: 305

What are two characteristics of VRF-Lite on the Cisco NX-OS platform? (Choose two.)

- A. VRF-Lite interfaces can be Layer 2.
- B. Layer 3 interfaces can belong to multiple VRFs.
- C. Interfaces that belong to VRFs can be physical or logical.
- D. VRF-Lite interfaces support MPLS.
- E. Overlapping IP addresses are permitted on different VRFs.

Answer: C,E ([LEAVE A REPLY](#))

NEW QUESTION: 306

An engineer must implement an iSCSI storage connectivity in the existing Cisco UCS environment. The environment is based on Cisco UCS C-Series rack server, Cisco Nexus 1000V Series Switches, and VMware ESXi hosts. The implementation must meet these requirements:

Provide multipathing and high availability in the event of a critical path failure.

Be cost-effective and not require the purchase of new equipment.

Which two components must be selected to meet these requirements? (Choose two.)

- A. uplink pinning
- B. storage binding
- C. software iSCSI adapter
- D. hardware iSCSI NIC
- E. system VLAN

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 307

A networking team must implement a new management solution for the network devices at their organization. The solution must meet these requirements

- * It must enable seamless monitoring, configuration, and troubleshooting while ensuring security and reliability.
- * It must allow access to devices even if the production network is down.
- * It must be easy to use and manage.

The company's budget is limited. Which implementation must the team perform to meet the requirements?

- A. out-of-band management solution to provide redundancy and flexibility
- B. remote-access VPN solution to provide secure access to the network devices
- C. in-band management solution that leverages the existing production network infrastructure for management traffic
- D. console-server solution to provide a dedicated management network

Answer: A (LEAVE A REPLY)

NEW QUESTION: 308

Drag and Drop Question

Drag and drop the technologies from the left onto the correct descriptions on the right.

Answer:

NEW QUESTION: 309

Which technology enables Layer 2 extension between remote data center sites?

- A. FCIP
- B. GRE
- C. DMVPN
- D. OTV

Answer: D (LEAVE A REPLY)

Reference: <https://netcraftsmen.com/spanning-layer-2-between-data-centers/>

NEW QUESTION: 310

Refer to the exhibit.

Which template is used when a vHBA template pair is created for a specific server that inherits its attributes from an existing template?

- A. Secondary
- B. Updating
- C. Primary
- D. Initial

Answer: D (LEAVE A REPLY)

NEW QUESTION: 311

Drag and Drop Question

Refer to the exhibit. An engineer must deploy a SAN that meets these criteria:

- The upstream director switch must be configured to minimize the number of issued domain IDs
- The access switch must aggregate multiple locally connected ports not a single uplink that shares the same domain ID as the upstream switch.

Drag and drop the port types from the right onto the boxes on the left to create a SAN topology that meets these requirements. Not all port types are used Port types are used more than once.

Answer:

NEW QUESTION: 312

Refer to the exhibit. A network engineer must improve high availability within the given UCS infrastructure. The engineer configured central nodes A and B in cluster mode to ensure that traffic fails over in the case of a network outage. Which type of redundancy will the cluster configuration provide?

- A. redundancy for the management plane only
- B. redundancy for the management, control, and data planes
- C. link-level redundancy via one management port
- D. redundancy via a single fabric interconnect

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 313

Refer to the exhibit.

A customer must ensure that the interface on a switch has enough resources to sustain the line rate traffic during peak load.

Which action meets this requirement?

- A. Increase the data field size to 9000 bytes.
- B. Change the rate mode to dedicated.
- C. Change the port mode to NL.
- D. Set Transmit B2B credit to 16.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 314

Refer to the exhibit.

An engineer must assign multiple Fibre Channel IDs to a single port channel. Which two features must be enabled this goal? (Choose two.)

- A. Smart Zoning feature on the Cisco UCS Fabric Interconnects
- B. NPIV feature on the Cisco MDS Series
- C. SAN Pin Groups on the Cisco UCS Fabric Interconnects.
- D. end-host mode feature on the Cisco UCS Fabric Interconnects
- E. NPV feature on the Cisco MDS Series.

Answer: (SHOW ANSWER)

NEW QUESTION: 315

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

Answer: B,C ([LEAVE A REPLY](#))

Section: Compute Design

Explanation/Reference:

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

NEW QUESTION: 316

Which two configurations are available by using a service profile template in Cisco UCS Manager? (Choose two.)

- A. number of vHBAs
- B. ARP entries
- C. UUID assignment
- D. VXLAN membership
- E. target server

Answer: (SHOW ANSWER)

Section: Automation Design

Explanation

Explanation/Reference: https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/cli/config/guide/2-2/b_UCSM_CLI_Configuration_Guide_2_2/b_UCSM_CLI_Configuration_Guide_2_2_chapter_0100000.html

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NEW QUESTION: 317

A Cisco engineer is configuring MPLS VPN BGP at a customer site that is connected to the provider site by more than one path MPLS VPN BGP Local Convergence link protection is enabled. After the engineer installs the main forwarding path and the redundant backup path within the BGP, they assign a unique route distinguisher to each VRF table on all PE devices that serve as a backup to the link. What is a prerequisite for this local convergence to work?

- A. The system is performing a PE-CE link protection on both ends
- B. BGP must support lossless switchover between operational paths
- C. IP/GRE is enabled.
- D. Interautonomous system option A (back-to-back VRF) is active.

Answer: (SHOW ANSWER)

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