

## Cisco.300-610.v2023-07-10.q153

Exam Code:	300-610
Exam Name:	Designing Cisco Data Center Infrastructure
Certification Provider:	Cisco
Free Question Number:	153
Version:	v2023-07-10
# of views:	322
# of Questions views:	7387
<a href="https://www.freecram.net/torrent/Cisco.300-610.v2023-07-10.q153.html">https://www.freecram.net/torrent/Cisco.300-610.v2023-07-10.q153.html</a>	

### NEW QUESTION: 1

DRAG DROP

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

Select and Place:

physical interfaces

port channels

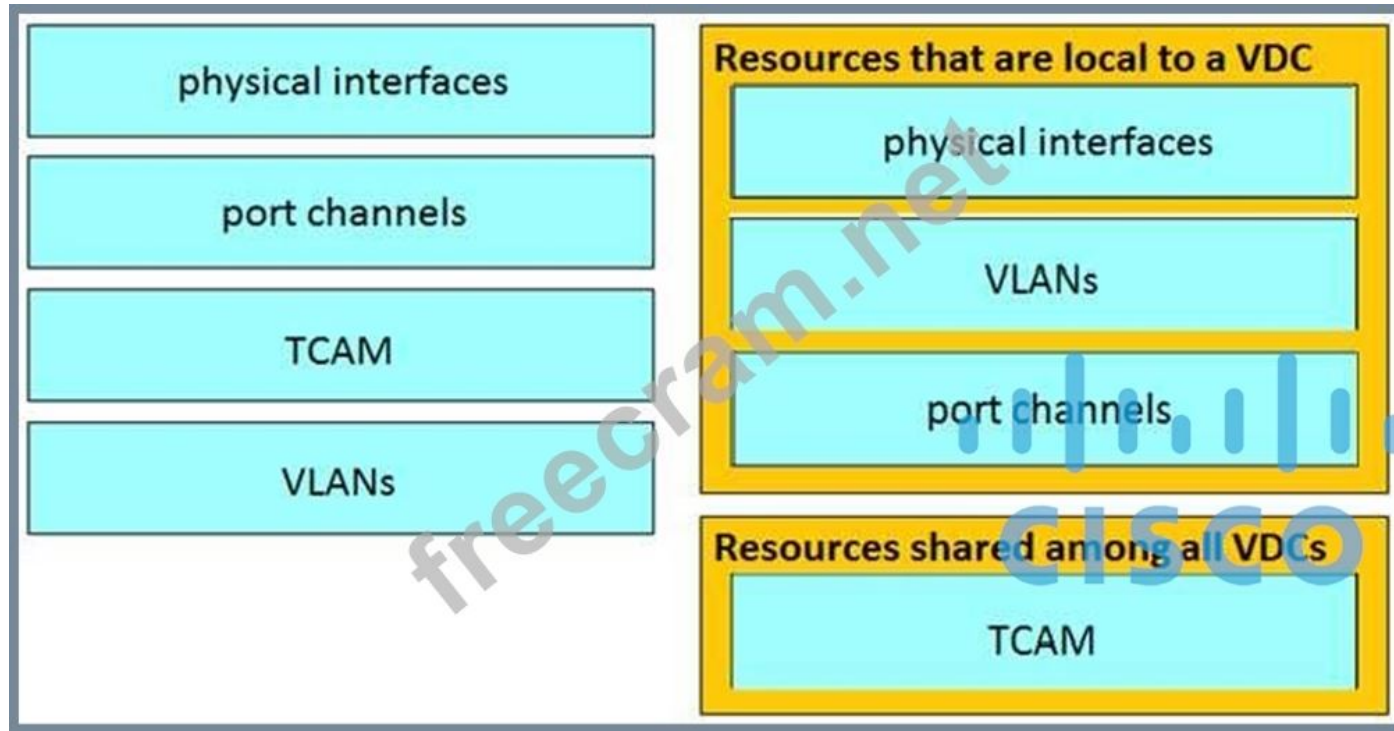
TCAM

VLANs

Resources that are local to a VDC

Resources shared among all VDCs

Answer:



Section: Network Design

Explanation

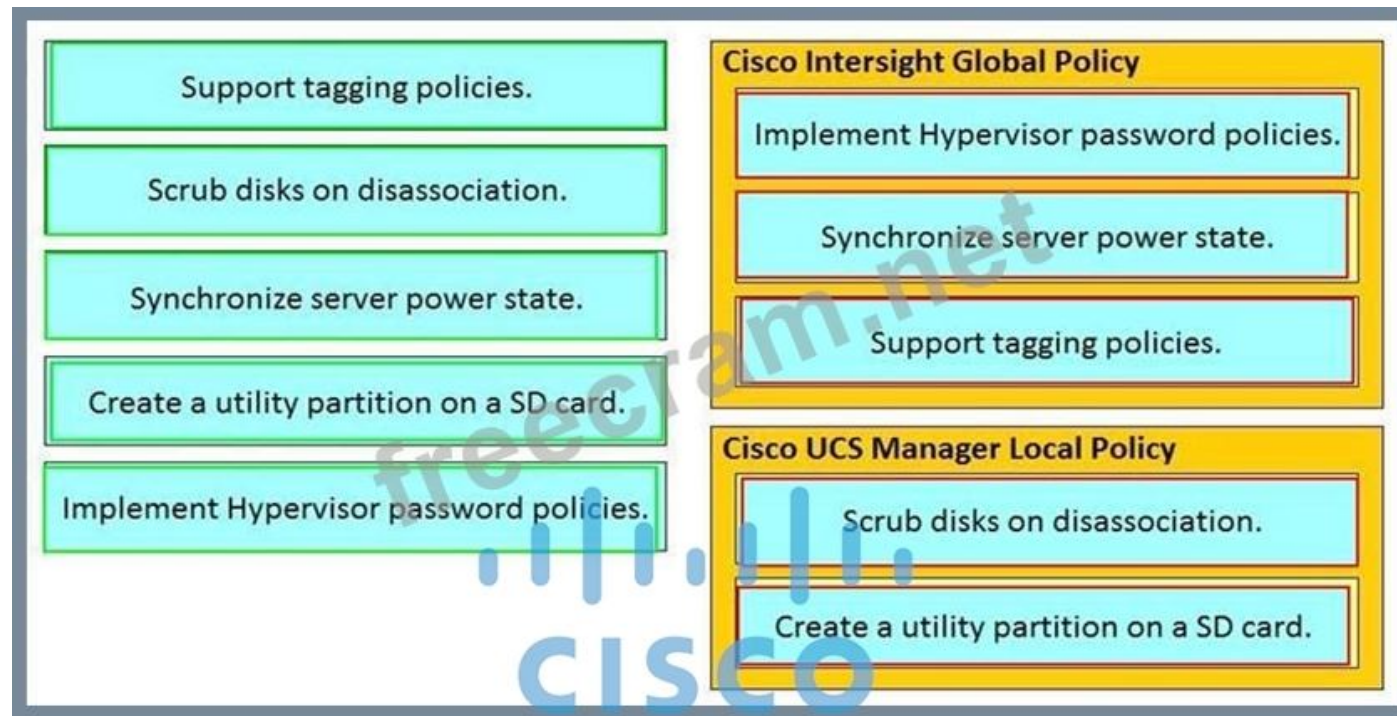
Explanation/Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/virtual\\_device\\_context/configuration/guide/b-7k-Cisco-Nexus-7000-Series-NX-OS-Virtual-Device-Context-Configuration-Guide/creating-vdc.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/virtual_device_context/configuration/guide/b-7k-Cisco-Nexus-7000-Series-NX-OS-Virtual-Device-Context-Configuration-Guide/creating-vdc.html)

**NEW QUESTION: 2**

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



Answer:



**NEW QUESTION: 3**

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: ([SHOW ANSWER](#))

**NEW QUESTION: 4**

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:

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.

**NEW QUESTION: 5**

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

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 6**

Which orchestration tool provides a graphical interface to manage LAN and SAN fabrics?

- A. Cisco Virtual Topology System
- B. Cisco Data Center Network Manager
- C. Cisco Nexus Fabric Manager
- D. Cisco CloudCenter

Answer: ([SHOW ANSWER](#))

Section: Automation Design

Explanation/Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/DCNM\\_OLH/SAN\\_Client/fmhelp/fmc.html#34479](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/DCNM_OLH/SAN_Client/fmhelp/fmc.html#34479)

**NEW QUESTION: 7**

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: ([SHOW ANSWER](#))

Please review this question.

**NEW QUESTION: 8**

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](#))

Section: Network Design

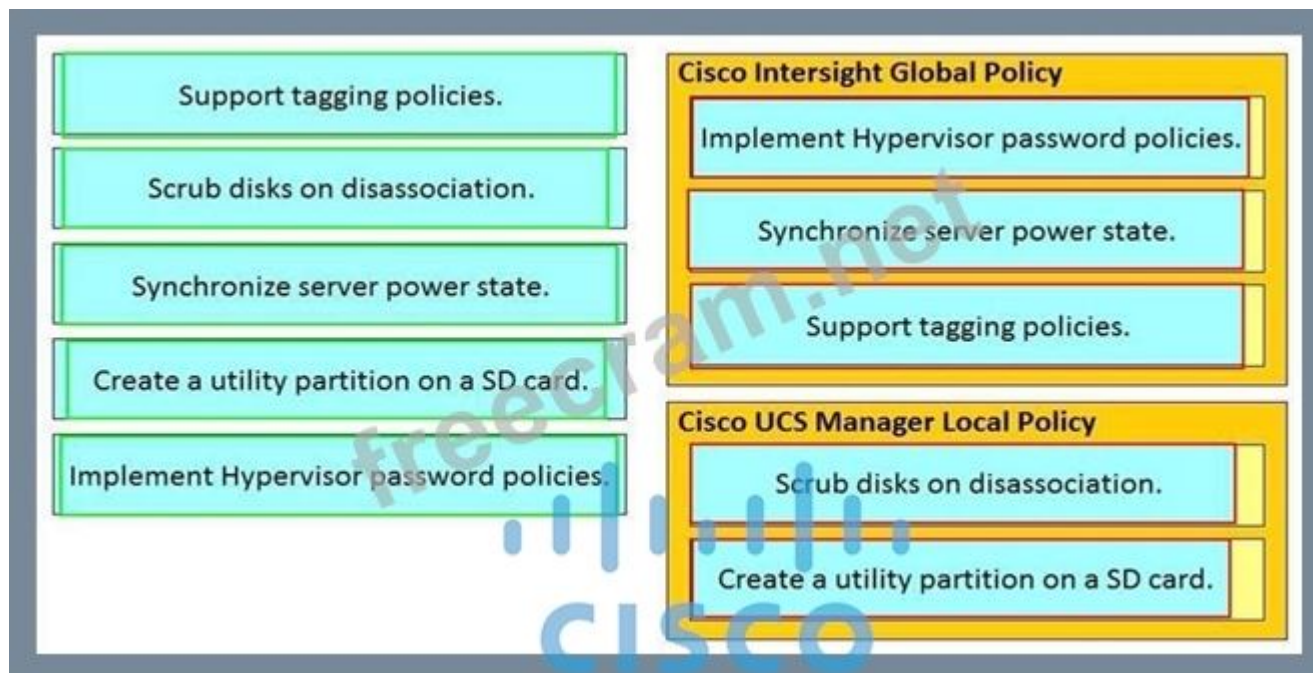
Explanation/Reference: <https://community.cisco.com/t5/data-center-documents/understanding-overlay-transport-virtualization-otv/ta-p/3151502#toc-hId-1043251551>

**NEW QUESTION: 9**

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



Answer:



NEW QUESTION: 10

- A. BGP
- B. ISIS
- C. OSPF
- D. VXLAN

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 11

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?

- Place the iSCSI storage appliance on the core switch to isolate it in a private VLAN.
- Configure a token-based authentication between the storage array and the clients.
- Connect the iSCSI storage appliance on the core switch using a dedicated port.
- Apply the session mutual authentication (CHAP) method between the targets and initiators.
- Deploy the iSCSI storage appliance on the core switch in a separate VRF.
- Apply the session mutual authentication (CHAP) method between the targets and initiators.
- Connect the iSCSI storage appliance on the core switch in vPC mode.
- Configure a token-based authentication between the storage array and the clients.

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 12**

A company runs mission -critical infrastructure in a single data center. Due to business growth It plans to open more data center 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 center. Which technology must be used to meet these requirements?

- A. OTV
- B. UDLD
- C. Trustsec
- D. Cloudsec

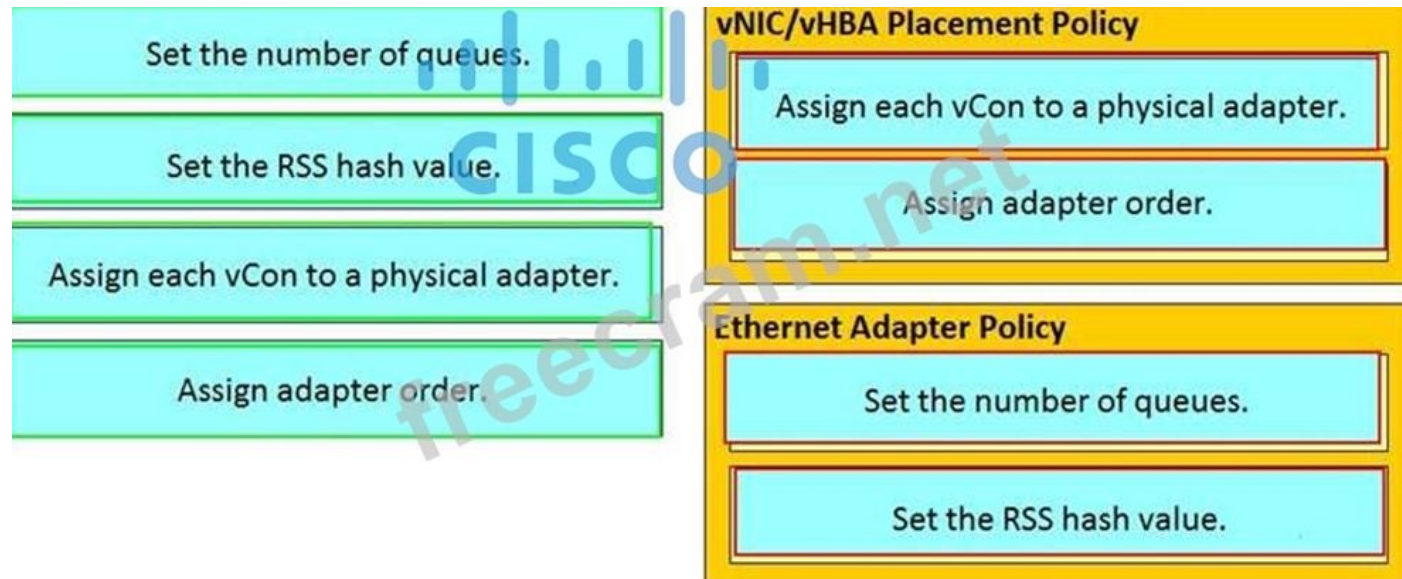
Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 13**

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

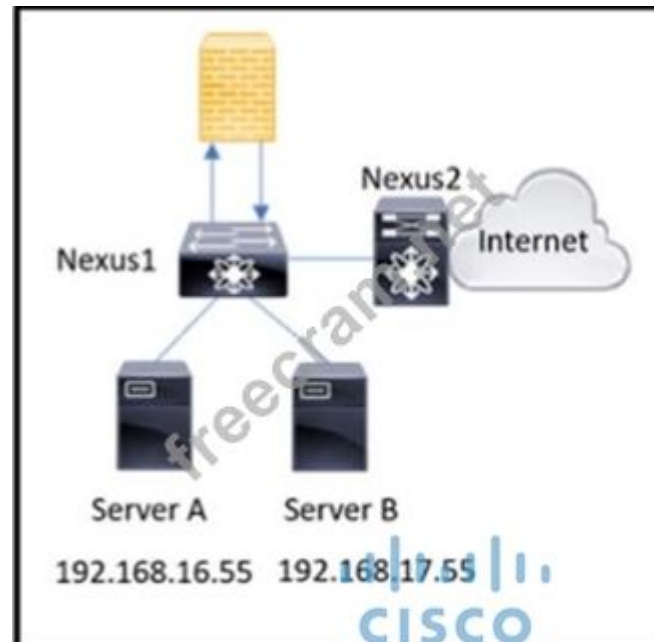
Set the number of queues.	<b>vNIC/vHBA Placement Policy</b> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
Set the RSS hash value.	
Assign each vCon to a physical adapter.	<b>Ethernet Adapter Policy</b> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
Assign adapter order	

Answer:



**NEW QUESTION: 14**

Refer to the exhibit.



The Cisco Nexus Series Switch with hostname Nexus1 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. VXLAN
- C. VDC
- D. VRF

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

**NEW QUESTION: 15**

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

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 16

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. control group
- C. FHRP filter
- D. data group

Answer: ([SHOW ANSWER](#))

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#### NEW QUESTION: 17

Which protocol prevents fiber failures from causing a Layer 2 loop in a dark fiber DCI?

- A. BFD
- B. UDLD
- C. MCP
- D. LLDP

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 18**

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: 19**

A network engineer must select a high availability feature for their data center. The solution must ensure network resilience, reduce network instability for Layer 3 routing protocols, and meet these requirements:

The device must notify its neighbors when the control plane is undergoing a restart.

The solution must suppress routing flaps in case of stateful switchovers.

Which solution must be implemented?

- A. NSF
- B. ISSU
- C. HSRP
- D. BFD

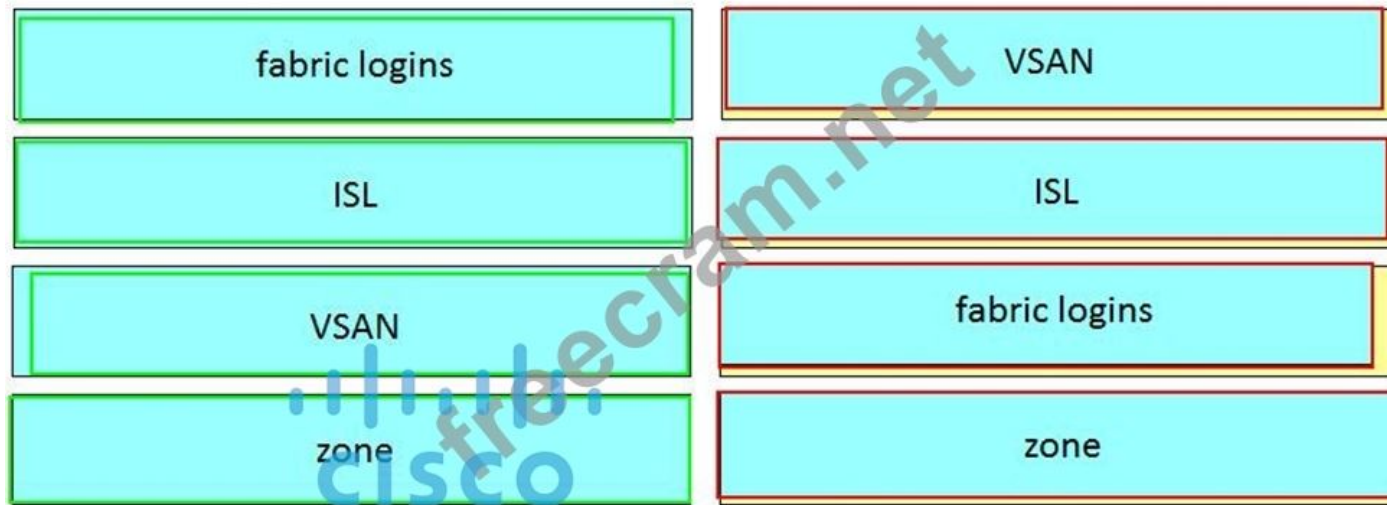
Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 20**

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

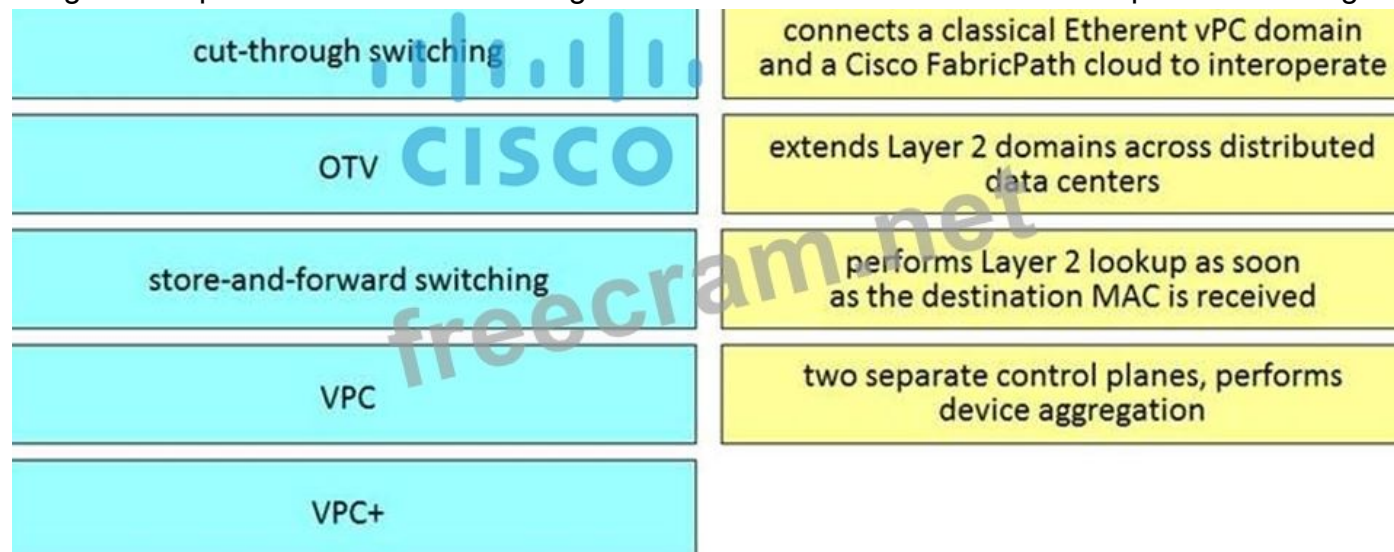
fabric logins	used to logically separate a SAN fabric
ISL	must be considered for the end-to-end oversubscription ratio
VSAN	these exchanges increase as a result of server virtualization
zone	must be considered when implementing access control

Answer:

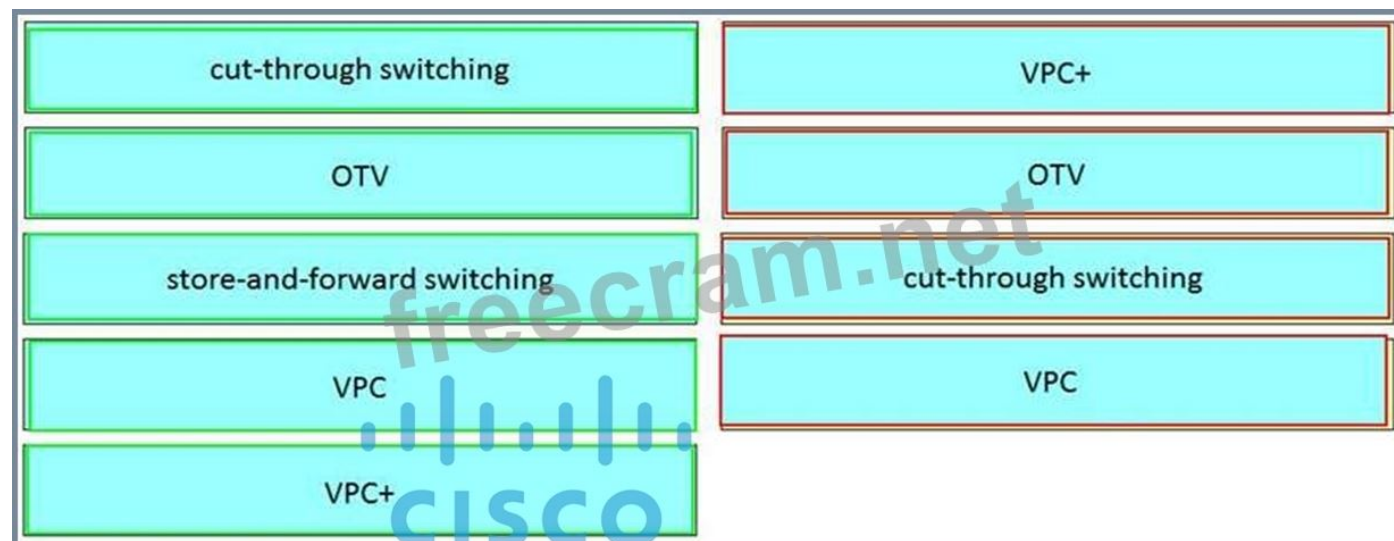


**NEW QUESTION: 21**

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: 22**

An engineer is implementing management access to a Cisco Nexus platform. The customer requires a solution that provides isolation between the data and control planes. In addition to management that uses encryption and authentication. The customer will manage the device using both IPv4 and IPv6. Which two components should be used to meet these requirements (Choose two.)

- A. SVI interface
- B. SSM protocol
- C. SNMP
- D. Telnet protocol
- E. mgmt0 interface

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

We are talking about management only, so SSM is out. Since we need to separate between data and control plane, we should use mgmt0 interface, so SVI interface is out. Since we need to use encryption and authentication, this can be done in SNMPv3, while telnet does not support encryption, so telnet is out.

**NEW QUESTION: 23**

A company data center requires a new disaster recovery solution to host critical services. The solution can sustain several hours of data loss because the services are routinely backed up to an offsite location. Also, the disaster recovery solution must provide 24-hour availability. Due to the strict policy requirements, the company wants to retain complete control of when the failover process occurs. Which solution meets these requirements?

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

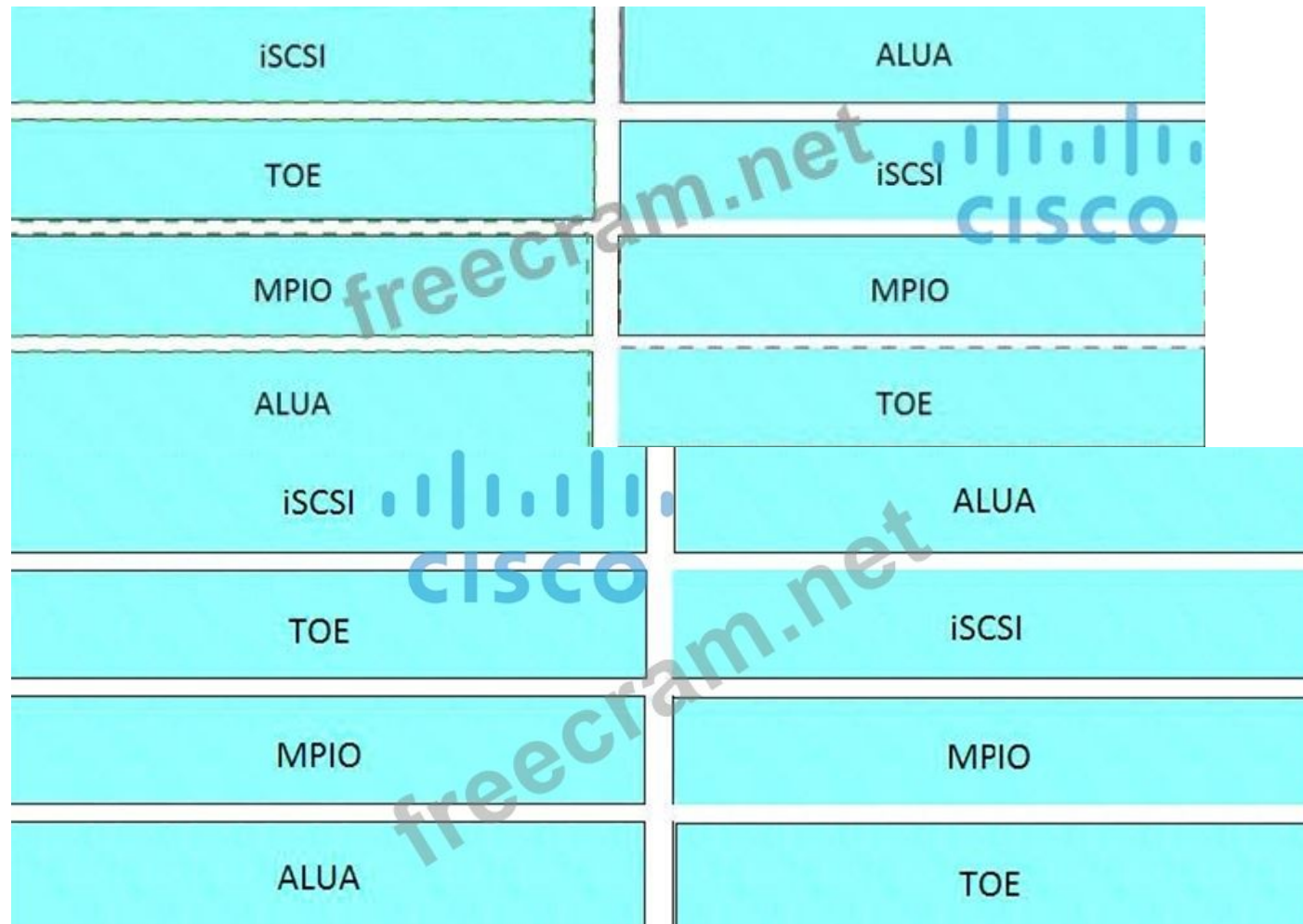
**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 24**

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

iSCSI	allows the storage system to tell the client which paths are optimized
TOE	provides block-level access to the storage
MPIO	host software has visibility into different iSCSI ports
ALUA	offloads device CPU from encapsulation / decapsulation

**Answer:**



**NEW QUESTION: 25**

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 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: (SHOW ANSWER)**

Reference:

Furthermore, if the deployment requires that all traffic leaving/traversing the router must be encrypted, the overall throughput of the router is now restricted to the performance of the IPsec engine which, in most cases, can be a fraction of the router's aggregate forwarding capabilities. This is a huge factor from an economics perspective of cost per bit through the router and MACsec changes the encryption cost per bit through routing elements. For deployments requiring encryption and the capability of leveraging an Ethernet transport (public or private), MACsec offers a simplified, line-rate, per port encryption option for secure next-generation deployments. CISCO

**NEW QUESTION: 26**

A network consultant reviews the requirements for the Storage Area Network (SAN) design. The proposed solution must offer a very efficient port usage and eliminate the need for a separate physical layer of switches and their associated ISLs. The design is not expected to require future expansion.

Which SAN topology must be used to meet these requirements?

- A. collapsed-core
- B. core-edge
- C. core-distribution-access
- D. edge-core-edge

Answer: (SHOW ANSWER)

**NEW QUESTION: 27**

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. priority flow control
- B. static PIN grouping
- C. end host mode
- D. dynamic port pinning
- E. N-Port ID virtualization

Answer: C,E (LEAVE A REPLY)

**NEW QUESTION: 28**

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

iSCSI	allows the storage system to tell the client which paths are optimized
TOE	provides block-level access to the storage
MPIO	host software has visibility into different iSCSI ports
ALUA	offloads device CPU from encapsulation / decapsulation

Answer:

iSCSI	ALUA	Asks the storage system to tell it which paths are optimized
TOE	iSCSI	Provides block-level access to the storage
MPIO	MPIO	It software has visibility to different iSCSI ports
ALUA	TOE	Offloads device CPU from encapsulation / decapsulation

**NEW QUESTION: 29**

Which element is the main functional component of the architecture that separates the internal fabric and the external network that connects sites when VXLAN EVPN is deployed multisite?

- A. border leaf
- B. service leaf
- C. service gateway
- D. border gateway

Answer: ([SHOW ANSWER](#))

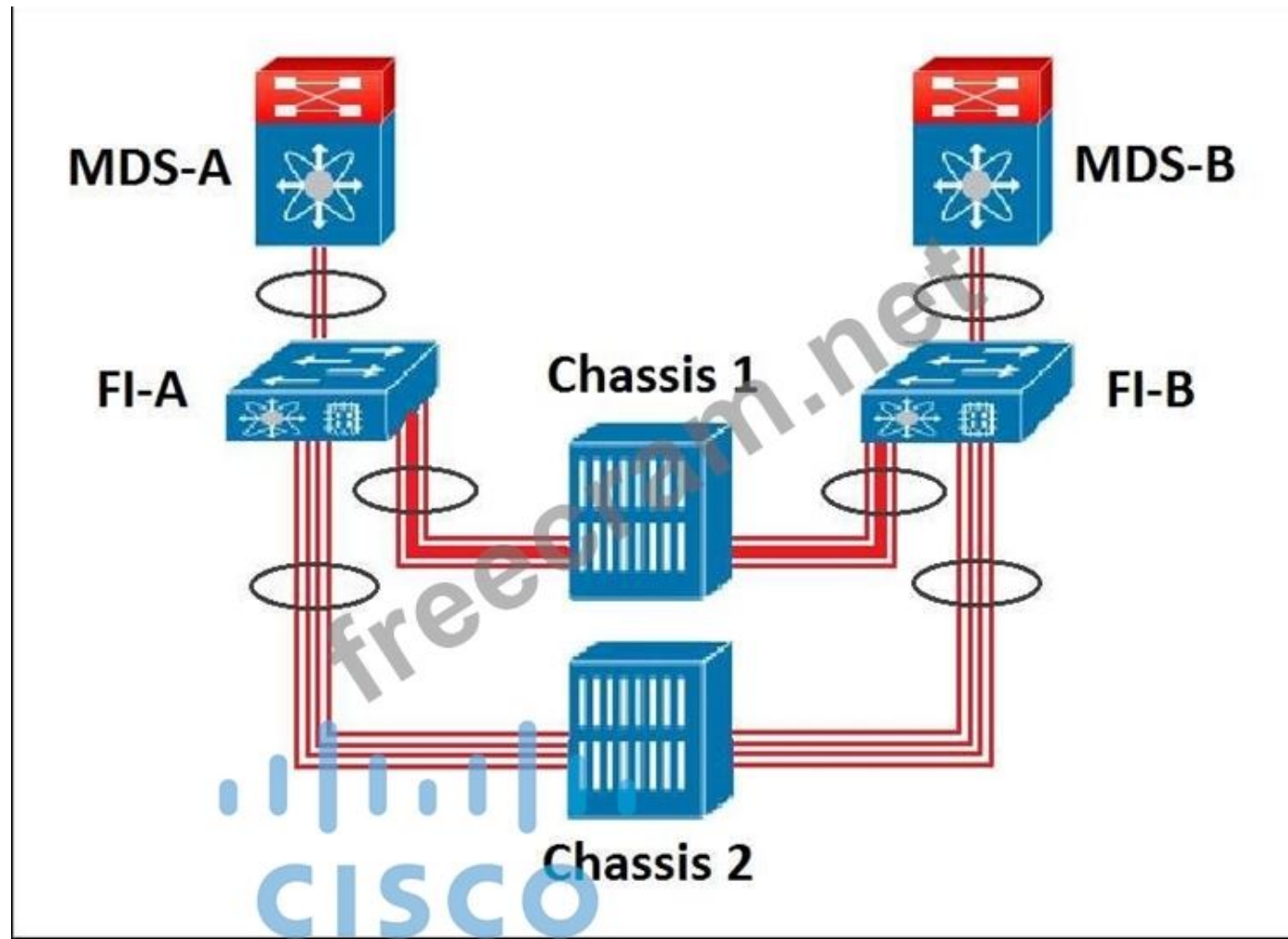
**NEW QUESTION: 30**

- A. SNMPv3
- B. RESTCONF
- C. NX-API
- D. gRPC

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 31**

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: ([SHOW ANSWER](#))

Section: Compute Design

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#### NEW QUESTION: 32

An ACI deployment must:

- Only use a proxy for border leaf switches.
- Classify incoming traffic on L3OUT.
- Immediately update the endpoint database when the endpoint moves between leaf switches.

Which VRF configuration must be used?

- Ingress Policy Control enforcement  
• Enforce Subnet Check enabled  
• IP Dataplane Learning disabled
- Enforce Subnet Check disabled  
• IP Dataplane Learning disabled  
• Ingress Policy Control enforcement
- Ingress Policy Control enforcement  
• Egress Policy Control enforcement  
• IP Dataplane Learning enabled
- Enforce Subnet Check enabled  
• IP Dataplane Learning enabled  
• Egress Policy Control enforcement

A. Option C

B. Option A

C. Option D

D. Option B

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 33

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

#### NEW QUESTION: 34

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. Hybrid

B. All-SAN

C. All-Flash

D. All-HDD

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 35

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

Support tagging policies.	<b>Cisco Intersight Global Policy</b>   
Scrub disks on disassociation.	<b>Cisco UCS Manager Local Policy</b>  
Synchronize server power state.	
Create a utility partition on a SD card.	
Implement Hypervisor password policies.	

Answer:

Support tagging policies.	<b>Cisco Intersight Global Policy</b> Implement Hypervisor password policies.
Scrub disks on disassociation.	Synchronize server power state.
Synchronize server power state.	Support tagging policies.
Create a utility partition on a SD card.	
Implement Hypervisor password policies.	<b>Cisco UCS Manager Local Policy</b> Scrub disks on disassociation.
	Create a utility partition on a SD card.

- Support tagging policies.
- Scrub disks on disassociation.
- Synchronize server power state.
- Create a utility partition on a SD card.
- Implement Hypervisor password policies.

**Cisco Intersight Global Policy**

- Implement Hypervisor password policies.
- Synchronize server power state.
- Support tagging policies.

**Cisco UCS Manager Local Policy**

- Scrub disks on disassociation.
- Create a utility partition on a SD card.

**NEW QUESTION: 36**

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

- physical interfaces
- port channels
- TCAM
- VLANs

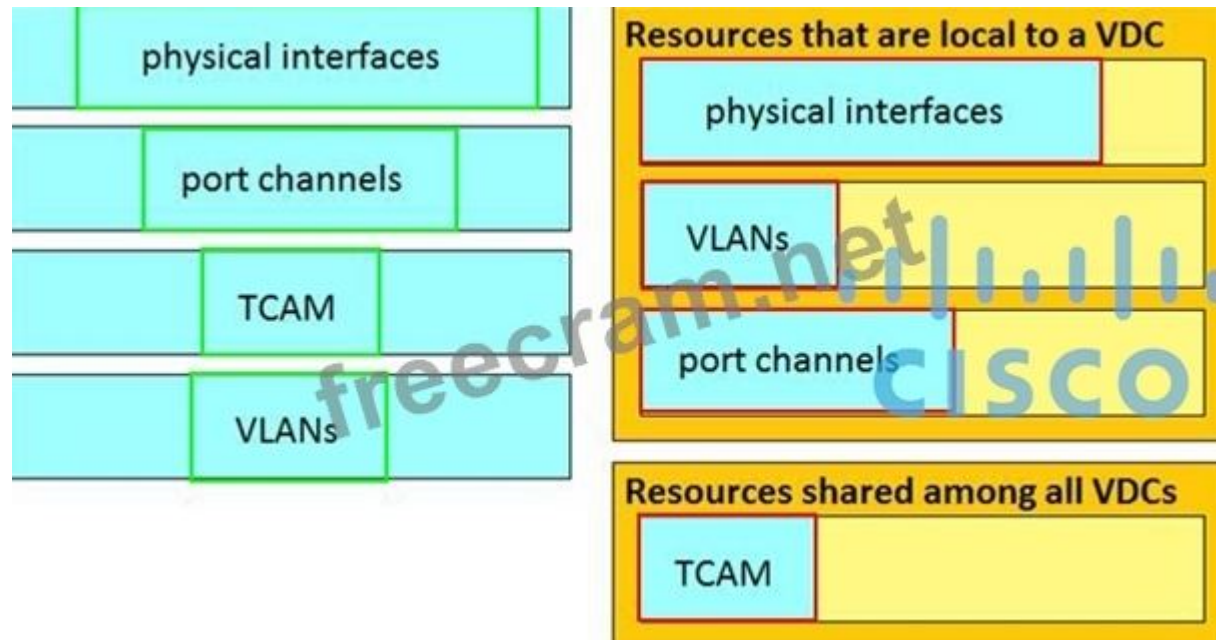
**Resources that are local to a VDC**

- 
- 
- 

**Resources shared among all VDCs**

- 

Answer:



**NEW QUESTION: 37**

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

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

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

Section: Automation Design

**NEW QUESTION: 38**

An engineer must integrate Layer 4 to Layer 7 services within Cisco ACI Fabric. The main requirement is to have a single point of configuration for network elements and firewall policies.

Which action meets these requirements?

- A. Deploy the firewalls in transparent mode.
- B. Deploy the firewalls in routed mode with PBR.
- C. Define the service graph model as service policy mode.
- D. Define the service graph model as network policy mode.

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

**NEW QUESTION: 39**

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

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

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

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

**NEW QUESTION: 40**

Refer to the exhibit.

Create vHBA Template

Name :

Description :

Fabric ID :  A  B

Redundancy

Redundancy Type :  No Redundancy  Primary Template  Secondary Template

Select VSAN : default

Template Type :  Initial Template  Updating Template

Max Data Field Size : 2048

WWPN Pool : Select (pool default used by default) ▼

QoS Policy : <not set> ▼

Pin Group : <not set> ▼

Stats Threshold Policy : default ▼

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. Initial
- D. Primary

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 41**

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

Uses STP if UDLD information times out.	<b>Normal Mode</b> <input type="text"/> <input type="text"/>
Detects when a port is stuck.	
Disables a port that has a high error rate.	<b>Aggressive Mode</b> <input type="text"/> <input type="text"/>
Allows a port that has a high error rate.	



**NEW QUESTION: 44**

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 forward 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?

- switchport mode TE  
• switchport mode trunk
- switchport mode TE  
• switchport mode trunk vsan
- switchport mode E  
• switchport mode trunk vsan
- switchport mode E  
• switchport mode trunk

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 45**

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 46**

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: ([SHOW ANSWER](#))

Reference:

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

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**NEW QUESTION: 47**

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. FCoE tunnel between data center
- B. asynchronous replication between data centers
- C. synchronous replication between data centers
- D. FCIP tunneling between data center

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 48**

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

Links are active-active.

MAC address learning occurs on the uplink ports.

STP runs on the uplink ports.

This is the default mode of operation.

End-Host Mode

Switch Mode

Answer:

Links are active-active.

MAC address learning occurs on the uplink ports.

STP runs on the uplink ports.

This is the default mode of operation.

End-Host Mode

Links are active-active.

MAC address learning occurs on the uplink ports.

Switch Mode

STP runs on the uplink ports.

This is the default mode of operation.

**NEW QUESTION: 49**

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: ([SHOW ANSWER](#))

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](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: 50**

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

Answer: ([SHOW ANSWER](#))

Servers cannot support PAgP

**NEW QUESTION: 51**

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

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 52**

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

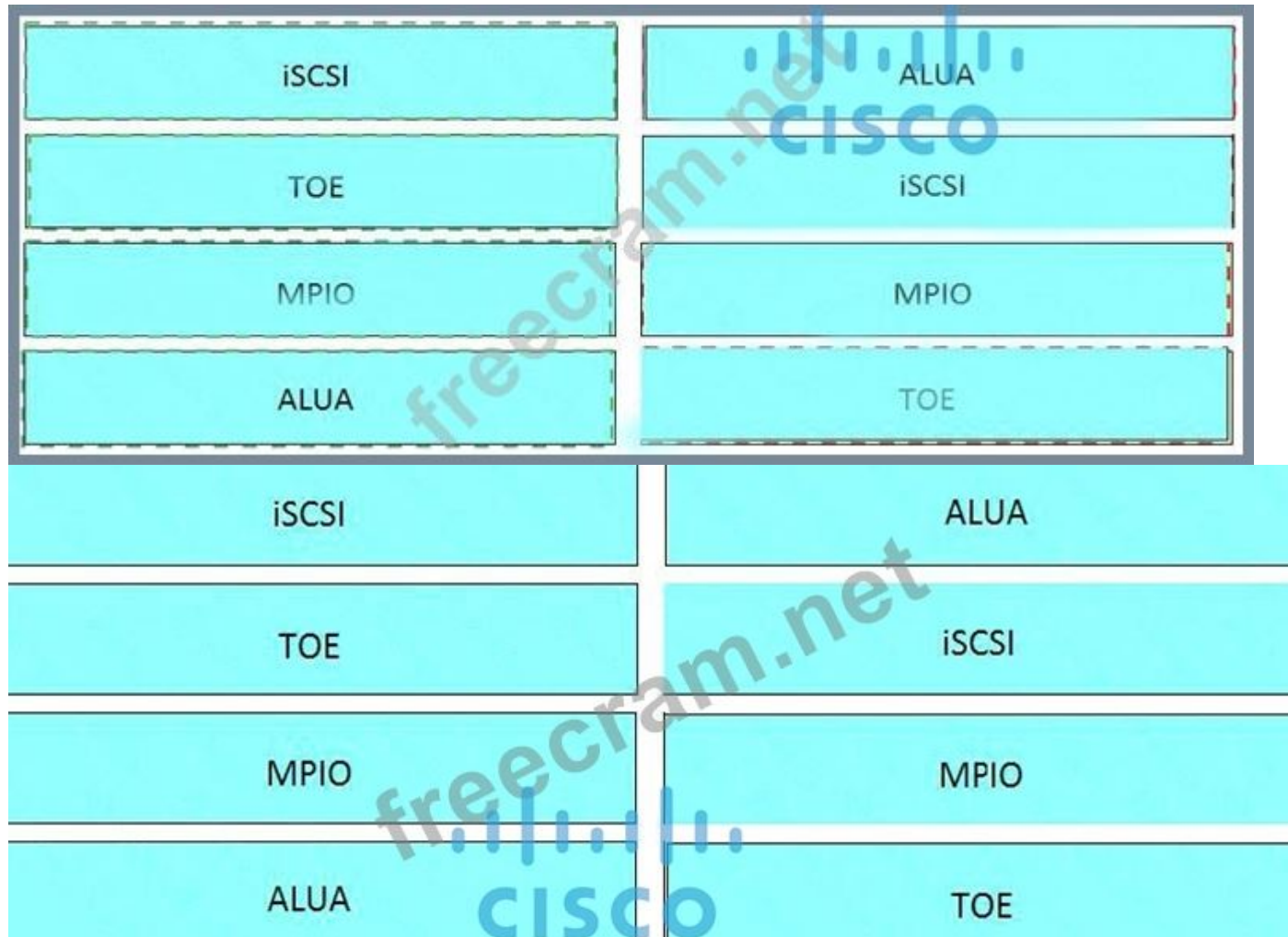
Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 53**

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

iSCSI	allows the storage system to tell the client which paths are optimized
TOE	provides block-level access to the storage
MPIO	host software has visibility into different iSCSI ports
ALUA	offloads device CPU from encapsulation / decapsulation

Answer:



**NEW QUESTION: 54**

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. NFS
- B. SAN
- C. SCSI
- D. FCoE

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 55**

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. The node has insufficient datastore space
- D. Virtual machines are in suspended state

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 56**

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: ([SHOW ANSWER](#))

Reference:

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

**NEW QUESTION: 57**

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.

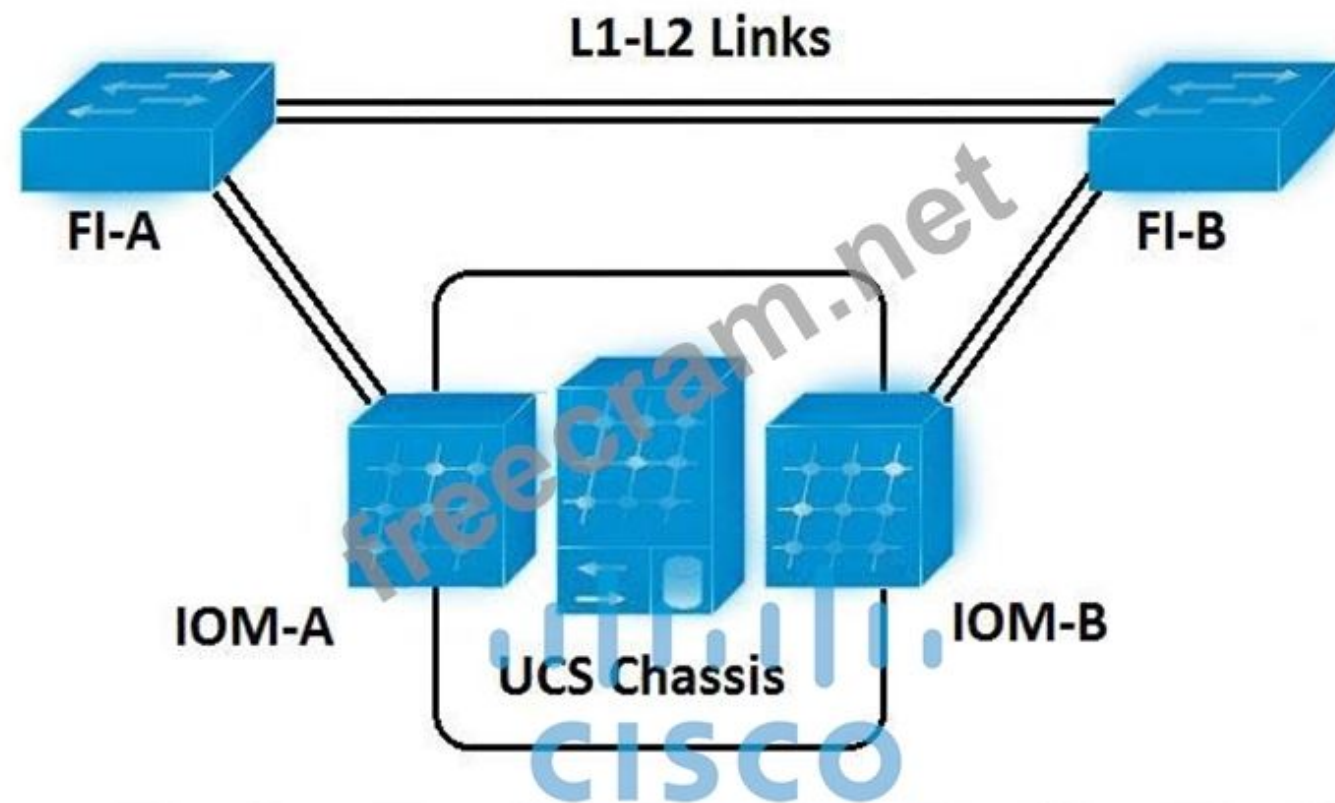
Which technology must be used?

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 58**

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

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

#### NEW QUESTION: 59

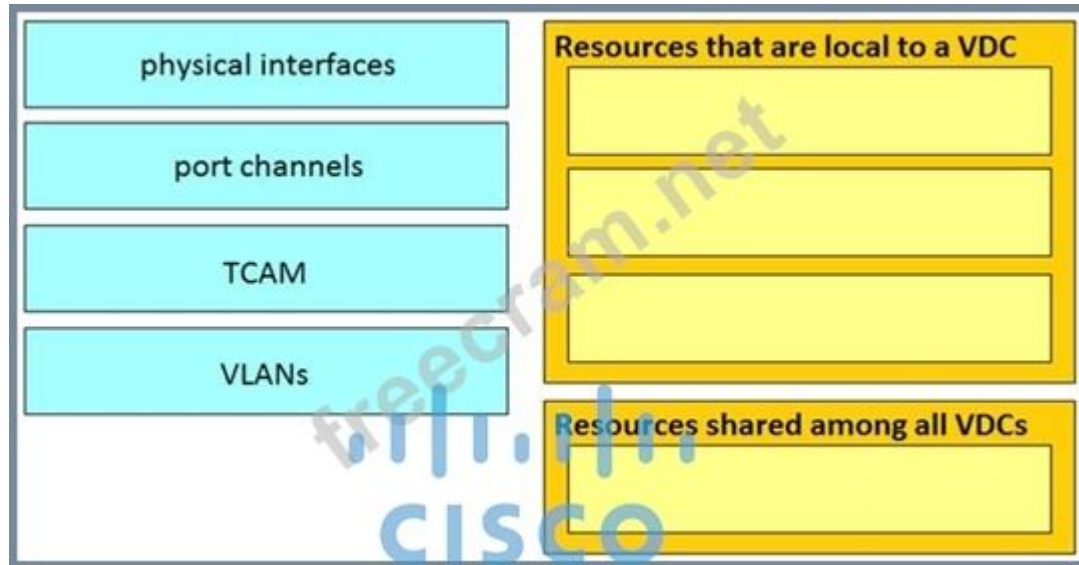
A Cisco engineer is configuring MPLS VPN BGP at a customer site that is connected to the provider site by more than one path MPLS VPN BGP Local Convergence link protection is enabled. After the engineer installs the main forwarding path and the redundant backup path within the BGP, they assign a unique 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. BGP must support lossless switchover between operational paths
- B. Interautonomous system option A (back-to-back VRF) is active.
- C. IP/GRE is enabled.
- D. The system is performing a PE-CE link protection on both ends

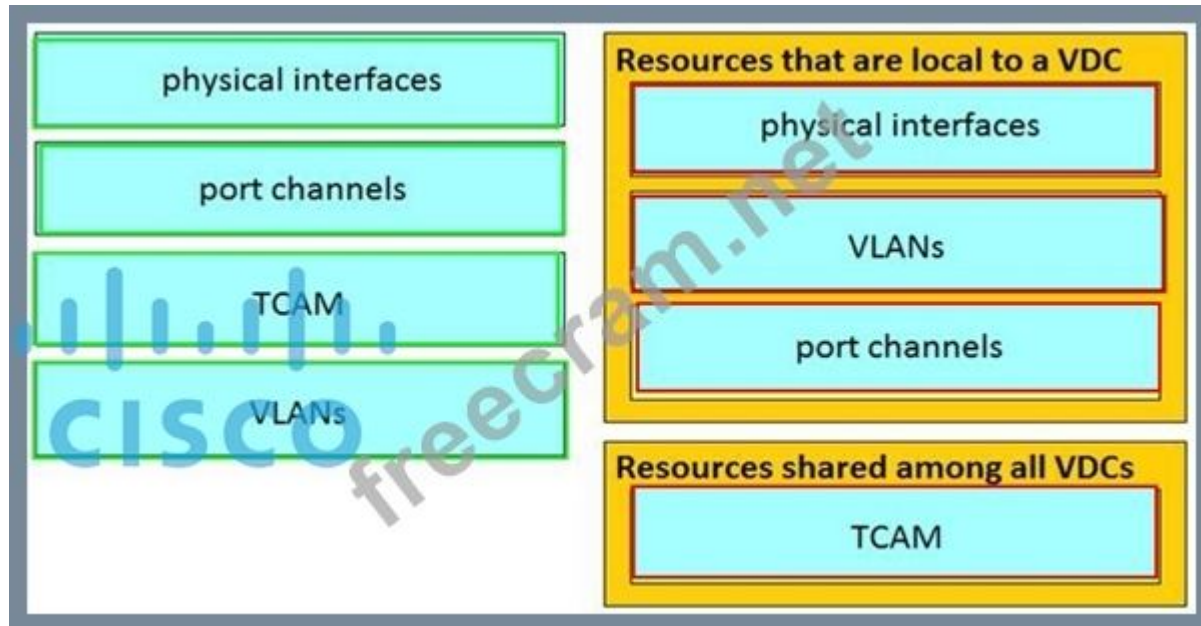
Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 60

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



Answer:



NEW QUESTION: 61

Refer to the exhibit.

```
Switch(config-sys-qos)# show policy-map system
Type network-qos policy-maps
=====
policy-map type network-qos system
  class type network-qos class-fcoe
    match qos-group 1
    pause no-drop
    mtu 2000
  class type network-qos class-default
    match qos-group 0
    mtu 1500
Service-policy (qos) input: system
policy statistics status: disabled
Class-map (qos) : class fcoe (match-any)
  Match : cos 3
  set qos-group 1
Class-map (qos) : class-default (match-any)
  Match: any
  set qos-group 0
```

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

- A. 2158 bytes
- B. 9000 bytes
- C. 2240 bytes
- D. 2000 bytes

Answer: ([SHOW ANSWER](#))

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#### NEW QUESTION: 62

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.

BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.	step 1
If an alternate path is available, routers immediately start converging on it.	Step 2
The BFD neighboring session with the OSPF peer is terminated.	Step 3
The local OSPF process tears down the OSPF neighbor relationship.	Step 4

**Answer:**

BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.	The BFD neighboring session with the OSPF peer is terminated.
If an alternate path is available, routers immediately start converging on it.	BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.
The BFD neighboring session with the OSPF peer is terminated.	The local OSPF process tears down the OSPF neighbor relationship.
The local OSPF process tears down the OSPF neighbor relationship.	If an alternate path is available, routers immediately start converging on it.

**NEW QUESTION: 63**

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. Spanning Tree Protocol
- D. Inter-Site Network
- E. DC Interconnect

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

**NEW QUESTION: 64**

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 65**

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 66**

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: ([SHOW ANSWER](#))

Explanation

Section: Storage Network Design

**NEW QUESTION: 67**

An engineer needs an orchestration and monitoring tool that should be used for managing the storage networks and VXLAN fabrics. The tool should also allow support built-in dashboard and real-time health summary for managed devices.

Which tool meets these requirements?

- A. Puppet
- B. Ansible
- C. Cisco Intersight
- D. Cisco DCNM

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 68**

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

Answer: ([SHOW ANSWER](#))

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/sw/gui/config/guide/2-2/b\\_UCSM\\_GUI\\_Configuration\\_Guide\\_2\\_2/b\\_UCSM\\_GUI\\_Configuration\\_Guide\\_2\\_2\\_chapter\\_010.html#concept\\_7DE33CE2E37A47C6992C012D51CA37D4](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/2-2/b_UCSM_GUI_Configuration_Guide_2_2/b_UCSM_GUI_Configuration_Guide_2_2_chapter_010.html#concept_7DE33CE2E37A47C6992C012D51CA37D4)

**Pinning**

Pinning in Cisco UCS is only relevant to uplink ports. You can pin Ethernet or FCoE traffic from a given server to a specific uplink Ethernet port or uplink FC port.

When you pin the NIC and HBA of both physical and virtual servers to uplink ports, you give the fabric interconnect greater control over the unified fabric. This control ensures more optimal utilization of uplink port bandwidth.

Cisco UCS uses pin groups to manage which NICs, vNICs, HBAs, and vHBAs are pinned to an uplink port. To configure pinning for a server, you can either assign a pin group directly, or include a pin group in a vNIC policy, and then add that vNIC policy to the service profile assigned to that server. All traffic from the vNIC or vHBA on the server travels through the I/O module to the same uplink port.

- Guidelines for Pinning

**Guidelines for Pinning**

When you determine the optimal configuration for pin groups and pinning for an uplink port, consider the estimated bandwidth usage for the servers. If you know that some servers in the system will use a lot of bandwidth, ensure that you pin these servers to different uplink ports.

**NEW QUESTION: 69**

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

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

**NEW QUESTION: 70**

- A. flow control
- B. proxy ARP
- C. IP redirects
- D. HSRP

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

**NEW QUESTION: 71**

Which two statements describe Ethernet switching mode on Cisco UCS 6100 Series Fabric Interconnects?

(Choose two.)

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

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

Section: Compute Design

Explanation/Reference: [https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/unified-computing/whitepaper\\_c11-701962.html](https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/unified-computing/whitepaper_c11-701962.html)

**NEW QUESTION: 72**

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

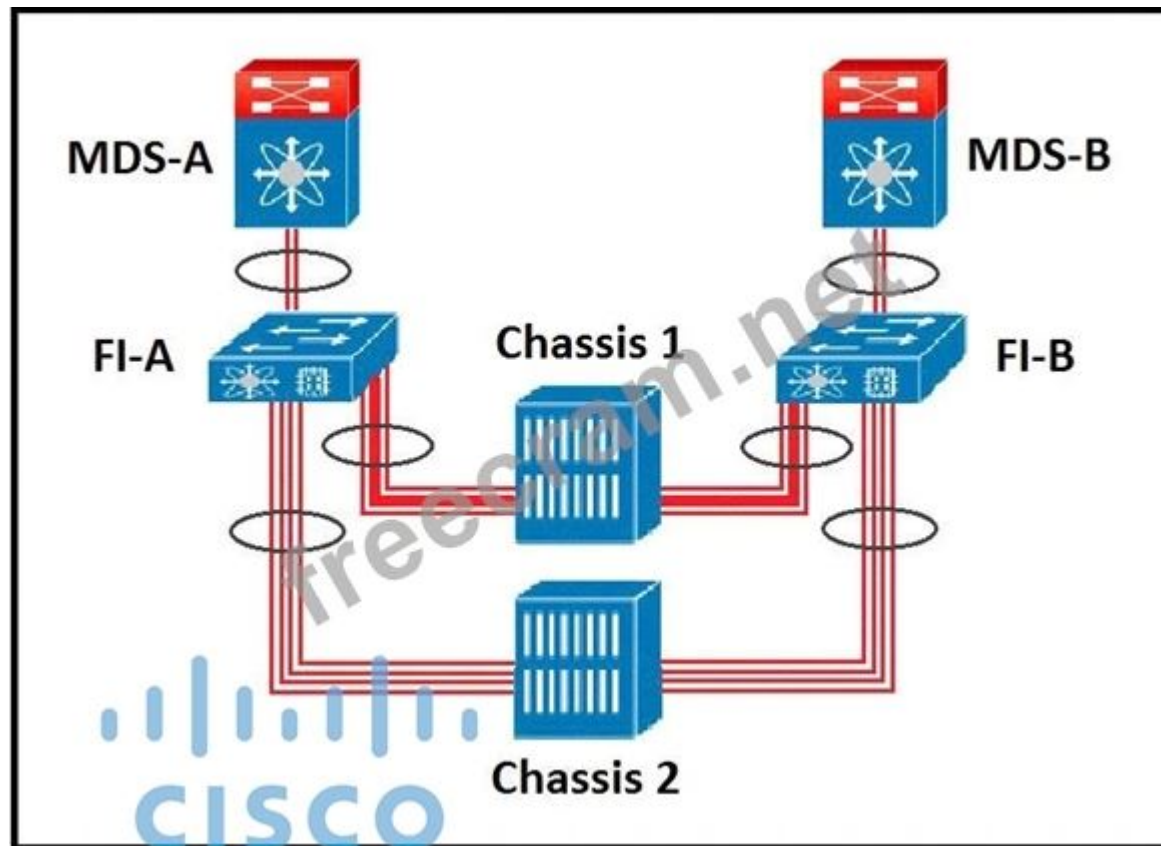
Which action meets these objectives?

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

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 73

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

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 74

Which protocol prevents fiber failures from causing a Layer 2 loop in a dark fiber DCI?

- A. BFD
- B. UDLD

C. MCP

D. LLDP

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

Section: Network Design

**NEW QUESTION: 75**

A network engineer is implementing Cisco UCS Manager with Cisco UCS Central integration. The company's strict security policies require that the logical profile of virtual network adapters and logical addressing assigned to Cisco UCS servers be managed by the Cisco UCS Manager. The users must also be prevented from being able to acknowledge pending activities in the Cisco UCS Manager.

Which two profiles must be used to meet these requirements? (Choose two.)

A. restricted chassis

B. local service

C. local power

D. public network control

E. global maintenance

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 76**

The end users report issues with datastore reachability between the newly installed virtual machines (VMs) and the storage array. The VMs are deployed on a Cisco C-Series server, directly connected with Cisco Nexus 5672UP switches over FCoE VLAN. The data traffic on VLAN 99, which is designated as a native VLAN, reaches its default gateway, but FCoE VLAN 99 fails to access the datastore. Which action resolves the problem?

A. Implement FCoE traffic on VLAN 10 and data traffic on VLAN 99.

B. Configure the FCoE VLAN traffic on a separate interface from any other VLANs that traverse the network.

C. Configure the FCoE VLAN in the VSAN database before including it in the trunk port.

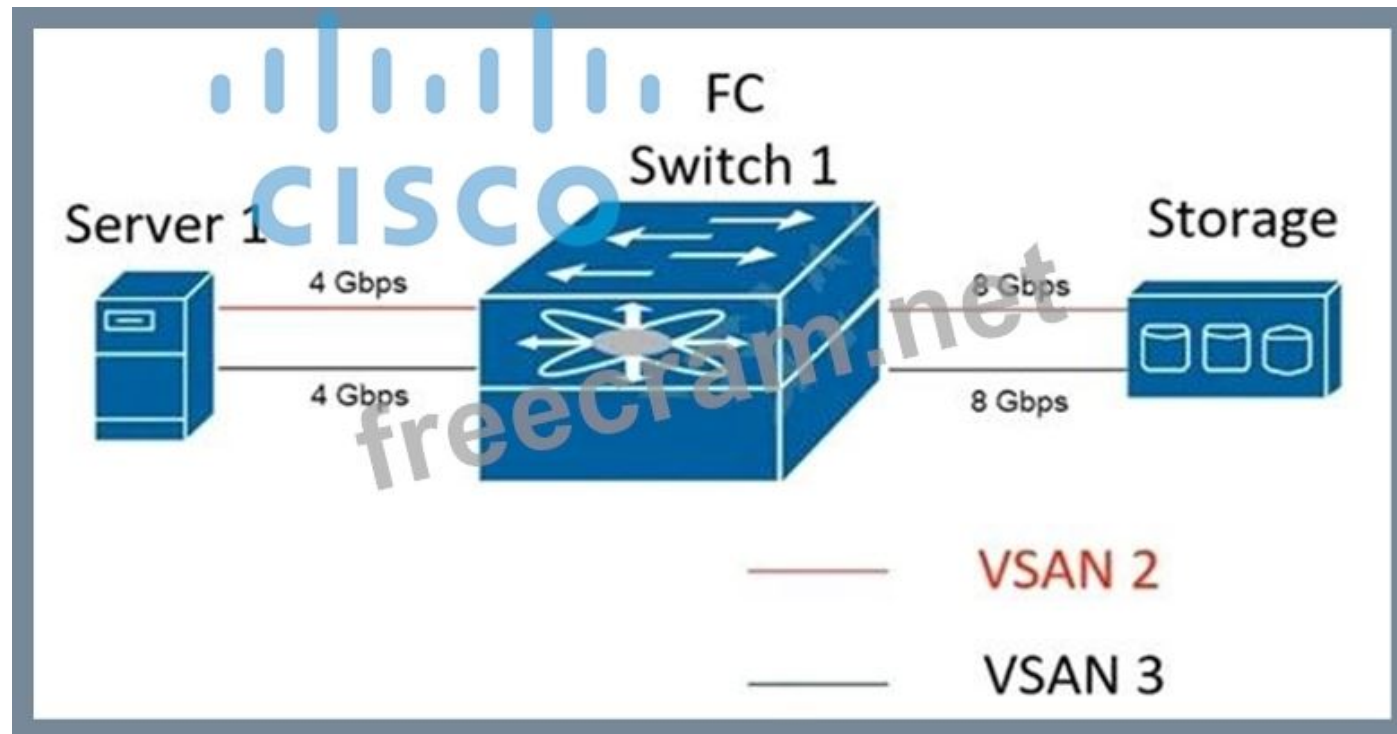
D. Implement host-facing FCoE ports as spanning-tree port type edge.

Answer: ([SHOW ANSWER](#))

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**NEW QUESTION: 77**

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. Enable NPV and F-Port-channel on ports that face Server 1 on the Fibre Channel switch to create redundant paths.
- D. Add an additional supervisor to the Fibre Channel switch to support nondisruptive upgrades.

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 78

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

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 79

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

- A. It is an open standard.
- B. It propagates hosts reachability without support of traffic flooding.
- C. Layer 3 failures do not propagate beyond the OTV edge device.

- D. It constrains HSRP hello messages to each data center.
- E. It extends the spanning tree between data centers.

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 80**

- A. Layer 3 interfaces can belong to multiple VRFs.
- B. VRF-Lite interfaces can be Layer 2.
- C. Overlapping IP addresses are permitted on different VRFs.
- D. Interfaces that belong to VRFs can be physical or logical.
- E. VRF-Lite interfaces support MPLS.

Answer: ([SHOW ANSWER](#))

Section: Network Design

Explanation/Reference: [https://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/cgr1000/ios/software/15\\_4\\_1\\_cg/vrf\\_cgr1000.html](https://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/cgr1000/ios/software/15_4_1_cg/vrf_cgr1000.html)

**NEW QUESTION: 81**

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

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 82**

An ACI deployment must:

- Only use a proxy for border leaf switches.
- Classify incoming traffic on L3OUT.
- Immediately update the endpoint database when the endpoint moves between leaf switches.

Which VRF configuration must be used?

The screenshot shows a list of four radio button options for VRF configuration. Option B is selected. The options are:

- Ingress Policy Control enforcement  
• Enforce Subnet Check enabled  
• IP Dataplane Learning disabled
- Enforce Subnet Check disabled  
• IP Dataplane Learning disabled  
• Ingress Policy Control enforcement
- Ingress Policy Control enforcement  
• Egress Policy Control enforcement  
• IP Dataplane Learning enabled
- Enforce Subnet Check enabled  
• IP Dataplane Learning enabled  
• Egress Policy Control enforcement

A. Option B

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 83**

An engineer must configure an interface for managing and orchestrating a Cisco Nexus device. The interface must be operational if the data and control planes crash, support IPv4 and IPv6 addressing, and have access to its own VRF instance.

Which interface should be used to meet these requirements?

- A. loopback interface
- B. interface VLAN
- C. physical interface
- D. management interface

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 84**

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. OTV
- B. TrustSec
- C. CloudSec
- D. UDLD

Answer: ([SHOW ANSWER](#))

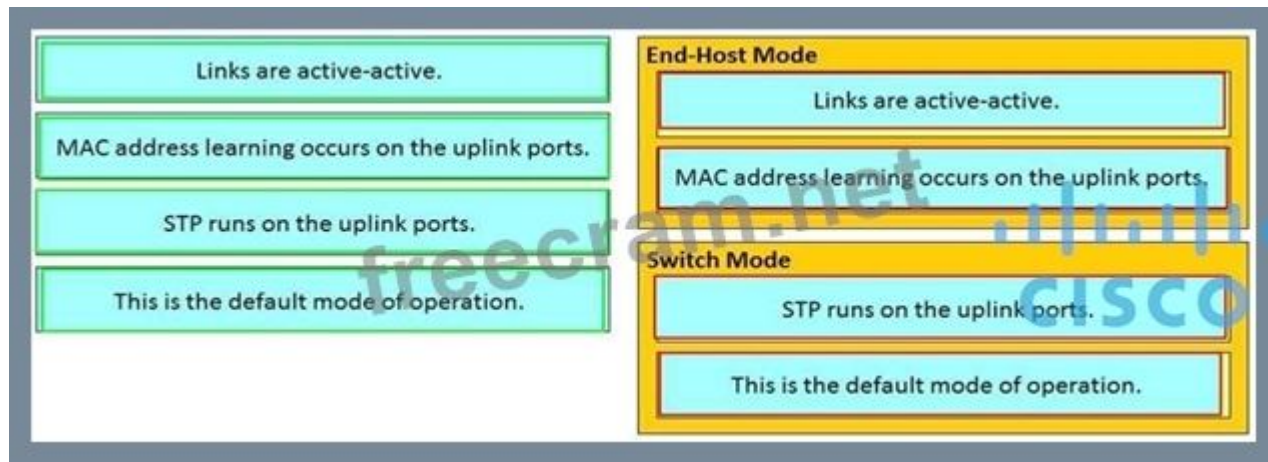
**NEW QUESTION: 85**

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

Links are active-active.	<b>End-Host Mode</b>  
MAC address learning occurs on the uplink ports.	
STP runs on the uplink ports.	<b>Switch Mode</b>  
This is the default mode of operation.	

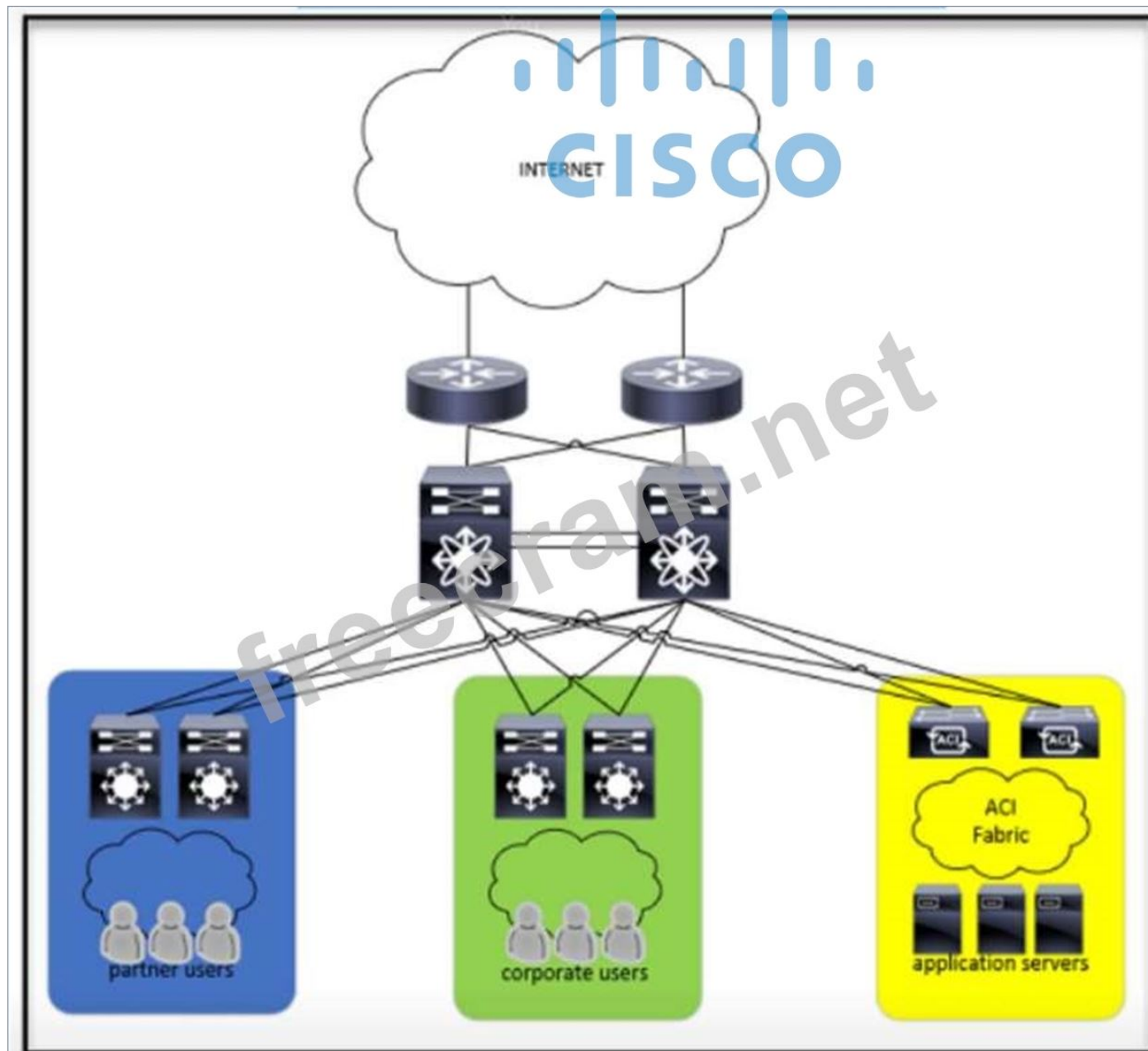


Answer:



**NEW QUESTION: 86**

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

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

**NEW QUESTION: 87**

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

Section: Network Design

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](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: 88**

Which technology enables Layer 2 extension between remote data center sites?

- A. FCIP
- B. GRE
- C. DMVPN
- D. OTV

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

Section: Network Design

Explanation/Reference: <https://netcraftsmen.com/spanning-layer-2-between-data-centers/>

**NEW QUESTION: 89**

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.

BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.	step 1
If an alternate path is available, routers immediately start converging on it.	Step 2
The BFD neighboring session with the OSPF peer is terminated.	Step 3
The local OSPF process tears down the OSPF neighbor relationship.	Step 4

Answer:

BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.	The BFD neighboring session with the OSPF peer is terminated.
If an alternate path is available, routers immediately start converging on it.	BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.
The BFD neighboring session with the OSPF peer is terminated.	The local OSPF process tears down the OSPF neighbor relationship.
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The BFD neighboring session with the OSPF peer is terminated.	The local OSPF process tears down the OSPF neighbor relationship.
The local OSPF process tears down the OSPF neighbor relationship.	If an alternate path is available, routers immediately start converging on it.

**NEW QUESTION: 90**

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 91**

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. MACsec
- C. IPsec
- D. OTV

**Answer: (SHOW ANSWER)**

The key to solution is "Ethernet frames". Frames are layer 2. IPsec encrypts at layer 3.

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**NEW QUESTION: 92**

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: (SHOW ANSWER)**

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](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: 93**

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](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: 94**

A company purchased a Cisco UCS system with four 5108 Chassis populated with UCS B-Series servers. The environment consists of nine Cisco HyperFlex rack servers. An engineer must provision virtual machines using an orchestration tool to optimize overall deployment time.

Which orchestration must be used to meet this requirement?

- A. Cisco AppDynamic
- B. Cisco Intersight
- C. Cisco DNA Center
- D. Cisco Network Assurance

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

**NEW QUESTION: 95**

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

physical interfaces

port channels

TCAM

VLANs

Resources that are local to a VDC

Resources shared among all VDCs

Answer:

physical interfaces

port channels

TCAM

VLANs

Resources that are local to a VDC

Resources shared among all VDCs

**NEW QUESTION: 96**

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

Uses STP if UDLD information times out.	Normal Mode
Detects when a port is stuck.	
Disables a port that has a high error rate.	Aggressive Mode
Allows a port that has a high error rate.	

Answer:

Uses STP if UDLD information times out.	Normal Mode
Detects when a port is stuck.	
Disables a port that has a high error rate.	Aggressive Mode
Allows a port that has a high error rate.	

**NEW QUESTION: 97**

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 98**

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

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](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: 99**

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 DAN Center

B. Cisco UCS Director

C. Cisco UCS Manager

D. Cisco ACI Multisite Orchestrator

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

**NEW QUESTION: 100**

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 end-host mode

UCS interconnect in Fibre Channel end-host mode

Fabric Interconnects uplinked to the Nexus device using an LACP port-channel in passive mode

C. UCS interconnect in Ethernet switching mode

UCS interconnect in Fibre Channel switching mode

Fabric Interconnects 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](#))

**NEW QUESTION: 101**

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

cut-through switching	connects a classical Ethernet vPC domain and a Cisco FabricPath cloud to interoperate
OTV	extends Layer 2 domains across distributed data centers
store-and-forward switching	performs Layer 2 lookup as soon as the destination MAC is received
VPC	two separate control planes, performs device aggregation
VPC+	

Answer:

cut-through switching	VPC+
OTV	OTV
store-and-forward switching	cut-through switching
VPC	VPC
VPC+	
cut-through switching	VPC+
OTV	OTV
store-and-forward switching	cut-through switching
VPC	VPC
VPC+	

**NEW QUESTION: 102**

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?

- 1.
  - Receive Checksum Offload field set to Disabled
  - TCP Segmentation Offload field set to Disabled
  - Transmit Queues field: 32
  - Ring Size field: 256
- 3.
  - Receive Checksum Offload field set to Enabled
  - TCP Segmentation Offload field set to Disabled
  - Transmit Queues field: 64
  - Ring Size field: 128
- 2.
  - Receive Checksum Offload field set to Enabled
  - TCP Segmentation Offload field set to Enabled
  - Transmit Queues field: 128
  - Ring Size field: 64
- 4.
  - Receive Checksum Offload field set to Disabled
  - TCP Segmentation Offload field set to Enabled
  - Transmit Queues field: 256
  - Ring Size field: 128

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

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 103

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

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 104

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: ([SHOW ANSWER](#))

Section: Automation Design

Explanation/Reference: [https://www.cisco.com/c/en/us/td/docs/net\\_mgmt/msx/3\\_4/solution\\_overview/Cisco\\_VMS\\_Sol\\_Overview.pdf](https://www.cisco.com/c/en/us/td/docs/net_mgmt/msx/3_4/solution_overview/Cisco_VMS_Sol_Overview.pdf)

#### NEW QUESTION: 105

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

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

Reference:

vmdcDesign22/VMDC\_2-2\_DG\_2.htm

#### **NEW QUESTION: 106**

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.** \*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

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

\*solution based on Cisco HX240 compute nodes

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

\*solution based on Cisco HX220 compute nodes

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

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#### **NEW QUESTION: 107**

An engineer must design Layer 2 connectivity for a subnet between two data centers. The engineer must ensure seamless host mobility and optimal first-hop routing. Which attribute must be synchronized across all data centers to achieve this goal?

**A.** anycast gateway MAC

**B.** multicast group

**C.** NX-OS version

**D.** DCNM to manage both fabrics

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

#### **NEW QUESTION: 108**

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 20:00:00:00:00:00:00:00 to 20:FF:FF:FF:FF:FF:FF:FF

**B.** from iqn.2020-c41i4p21y5a165.lab.ucs-00 to iqn.2020-ceiD1pj5y135-8.lab.ucs-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: ([SHOW ANSWER](#))

**NEW QUESTION: 109**

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

Section: Compute Design

Explanation/Reference:

**NEW QUESTION: 110**

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.

BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.	step 1
If an alternate path is available, routers immediately start converging on it.	Step 2
The BFD neighboring session with the OSPF peer is terminated.	Step 3
The local OSPF process tears down the OSPF neighbor relationship.	Step 4

Answer:

BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.	The BFD neighboring session with the OSPF peer is terminated.
If an alternate path is available, routers immediately start converging on it.	BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.
The BFD neighboring session with the OSPF peer is terminated.	The local OSPF process tears down the OSPF neighbor relationship.
The local OSPF process tears down the OSPF neighbor relationship.	If an alternate path is available, routers immediately start converging on it.

Explanation

BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.	The BFD neighboring session with the OSPF peer is terminated.
If an alternate path is available, routers immediately start converging on it.	BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.
The BFD neighboring session with the OSPF peer is terminated.	The local OSPF process tears down the OSPF neighbor relationship.
The local OSPF process tears down the OSPF neighbor relationship.	If an alternate path is available, routers immediately start converging on it.

**NEW QUESTION: 111**

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

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

Answer: ([SHOW 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 64B/66B encoding, and 10-Gbps links use 8B/10B encoding.
- C. 8-Gbps links and 10-Gbps links use 64B/66B encoding.
- D. 8-Gbps links use 8B/10B encoding, and 10-Gbps links use 64B/66B encoding.

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 113**

Where does Cisco UCS handle Fibre Channel traffic failover?

- A. on a Cisco UCS Fabric Interconnect ASIC in Fibre Channel switching mode
- B. on the host, by using multipathing software
- C. in the hardware on the Cisco UCS VIC 12xx adapter or later
- D. in the hardware on any Cisco UCS VIC adapter

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

Section: Storage Network Design

Explanation/Reference: [https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/unified-computing/whitepaper\\_c11-701962.html](https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/unified-computing/whitepaper_c11-701962.html)

**NEW QUESTION: 114**

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?

- stretched bridge domain with local subnet  
• stretched Layer 2 broadcast domain
- localized bridge domain, subnet, and EPG  
• stretched Layer 2 broadcast domain
- stretched bridge domain, subnet, and EPG  
• localized Layer 2 broadcast flooding
- localized bridge domain with local subnet  
• localized Layer 2 broadcast flooding

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

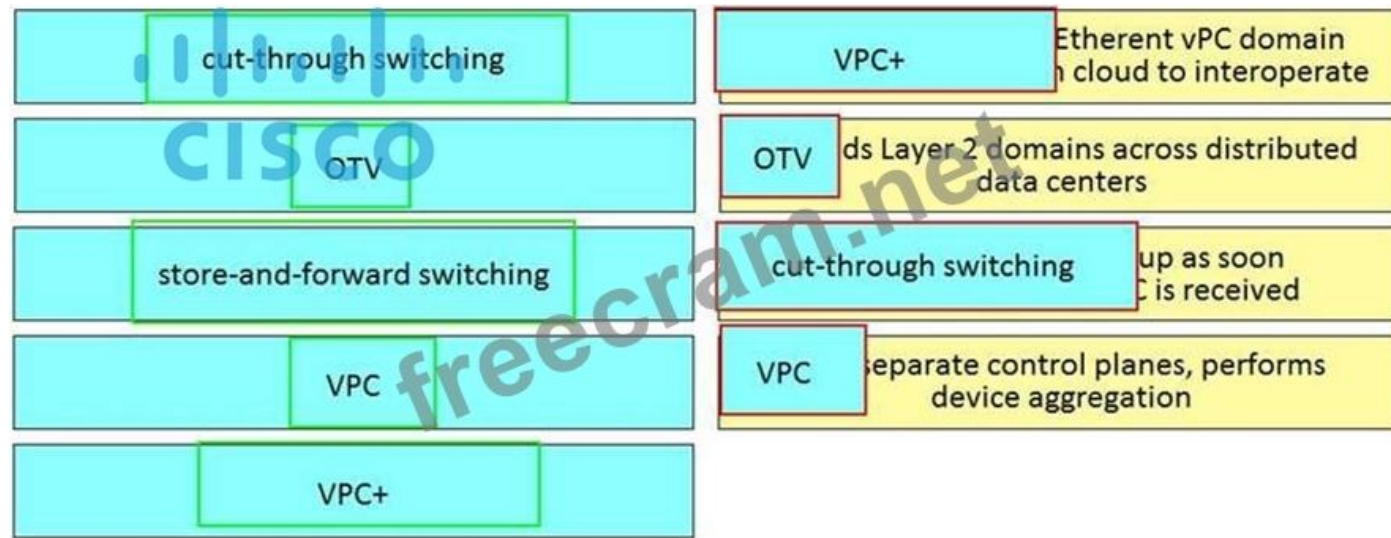
Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 115**

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

cut-through switching	connects a classical Ethernet vPC domain and a Cisco FabricPath cloud to interoperate
OTV	extends Layer 2 domains across distributed data centers
store-and-forward switching	performs Layer 2 lookup as soon as the destination MAC is received
VPC	two separate control planes, performs device aggregation
VPC+	

Answer:



**NEW QUESTION: 116**

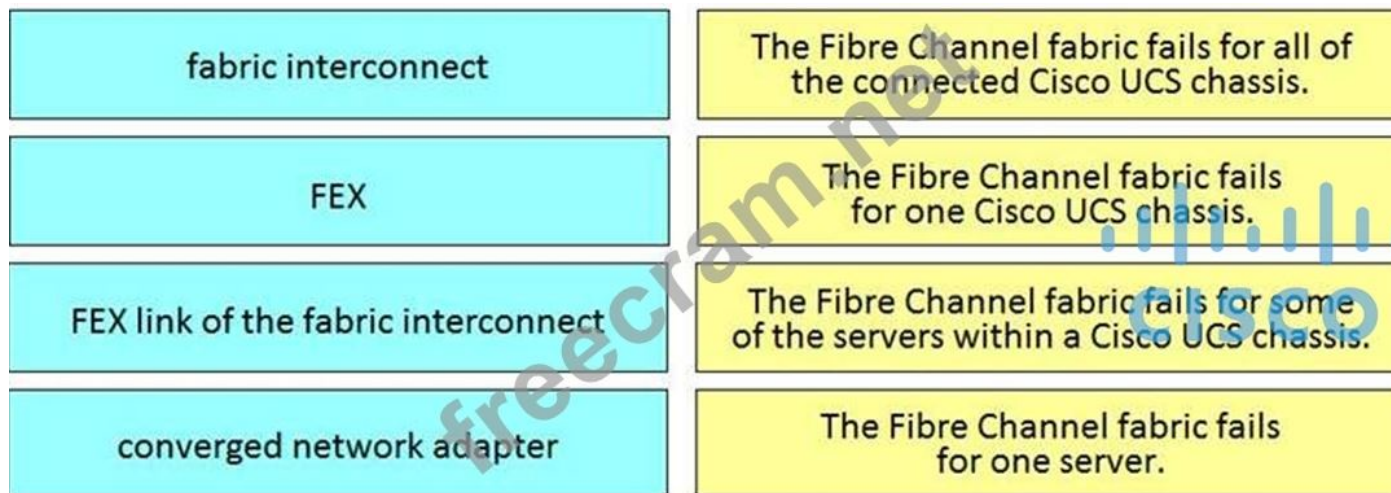
Which two automation requirements are met when Puppet is used? (Choose two.)

- A. Enable clients to pull changes without installing an agent.
- B. Enable one-off infrastructure changes to be performed manually.
- C. Immediately push configuration updates to servers.
- D. Enable clients to pull changes to configuration files.
- E. Provide support for writing new modules in Python.

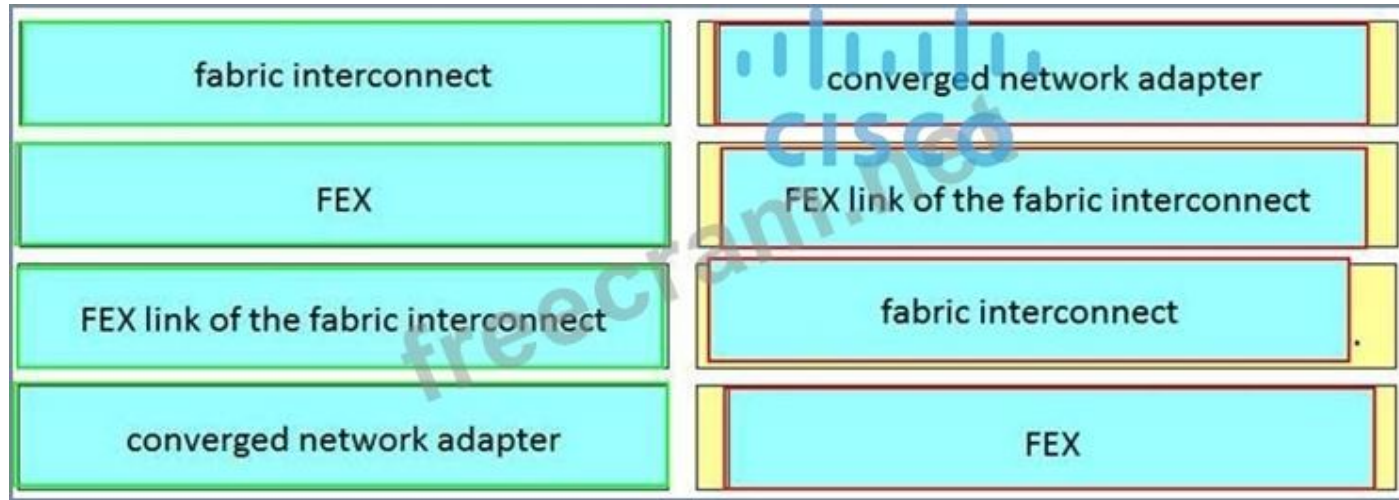
Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 117**

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: 118**

Which two automation requirements can be met by using Puppet? (Choose two.)

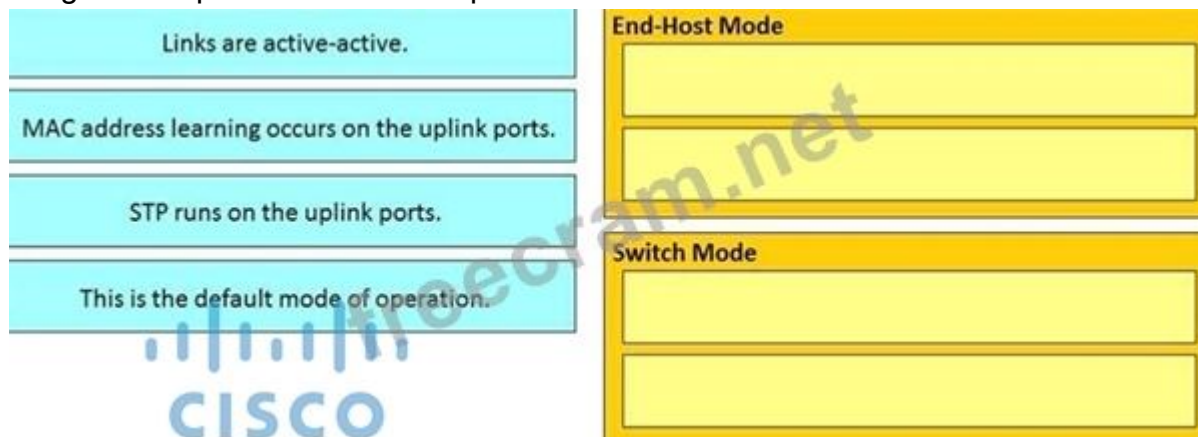
- A. Push configuration updates immediately to servers.
- B. Enable clients to pull changes to configuration files.
- C. Enable clients to pull changes without installing an agent.
- D. Provide support for writing new modules in Python.
- E. Enable one-off infrastructure changes to be performed manually.

Answer: ([SHOW ANSWER](#))

<https://blogs.cisco.com/datacenter/cisco-nx-os-and-puppet-agentless-data-center-automation>

**NEW QUESTION: 119**

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



Answer:

Links are active-active.	<b>End-Host Mode</b>
MAC address learning occurs on the uplink ports.	Links are active-active.
STP runs on the uplink ports.	MAC address learning occurs on the uplink ports.
This is the default mode of operation.	<b>Switch Mode</b>
	STP runs on the uplink ports.
	This is the default mode of operation.

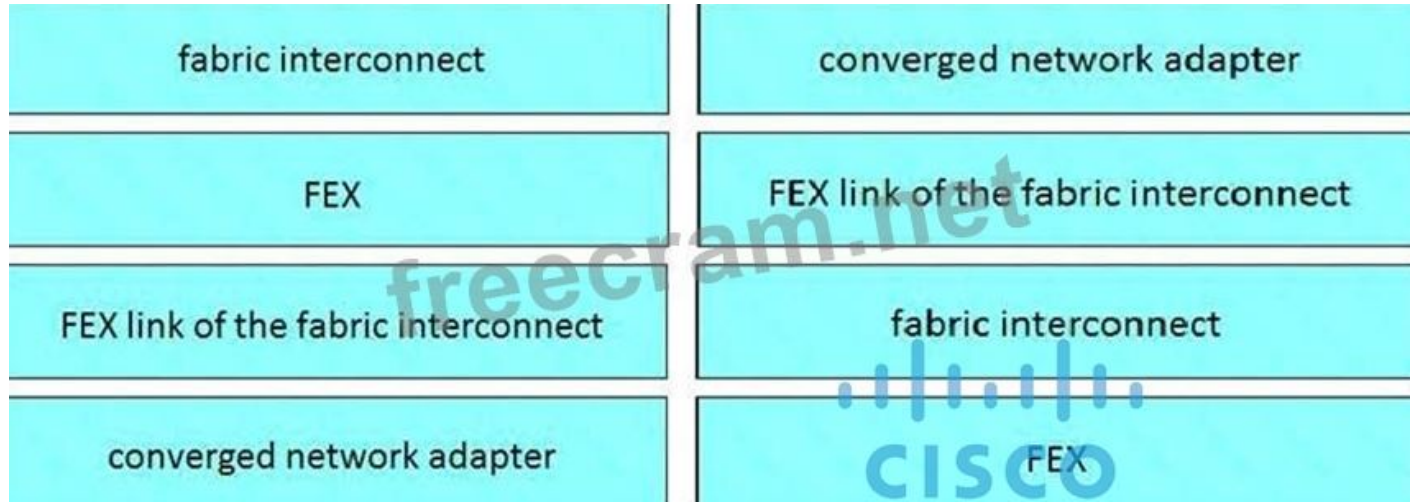
**NEW QUESTION: 120**

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.

fabric interconnect	The Fibre Channel fabric fails for all of the connected Cisco UCS chassis.
FEX	The Fibre Channel fabric fails for one Cisco UCS chassis.
FEX link of the fabric interconnect	The Fibre Channel fabric fails for some of the servers within a Cisco UCS chassis.
converged network adapter	The Fibre Channel fabric fails for one server.

**Answer:**

fabric interconnect	converged network adapter
FEX	FEX link of the fabric interconnect
FEX link of the fabric interconnect	fabric interconnect
converged network adapter	FEX



**NEW QUESTION: 121**

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

fabric logins	used to logically separate a SAN fabric
ISL	must be considered for the end-to-end oversubscription ratio
VSAN	these exchanges increase as a result of server virtualization
zone	must be considered when implementing access control

**Answer:**

fabric logins	VSAN
ISL	ISL
VSAN	fabric logins
zone	zone

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**NEW QUESTION: 122**

An engineer deploys VMware ESXi hypervisor on blade servers. The virtual networking is managed by Cisco Nexus 1000V Series Switches.

Which configuration aligns with Cisco recommended practices for providing high availability and a maximum throughput to the VMware ESXi hosts?

- A. dual vNICs with MAC pinning link aggregation
- B. dual vNICs with static EtherChannel link aggregation
- C. dual vNICs with LACP link aggregation
- D. dual vNICs with hardware fabric failover on the fabric interconnects

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

**NEW QUESTION: 123**

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. Any combination of one to 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. 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:** ([SHOW ANSWER](#))

**NEW QUESTION: 124**

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-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.

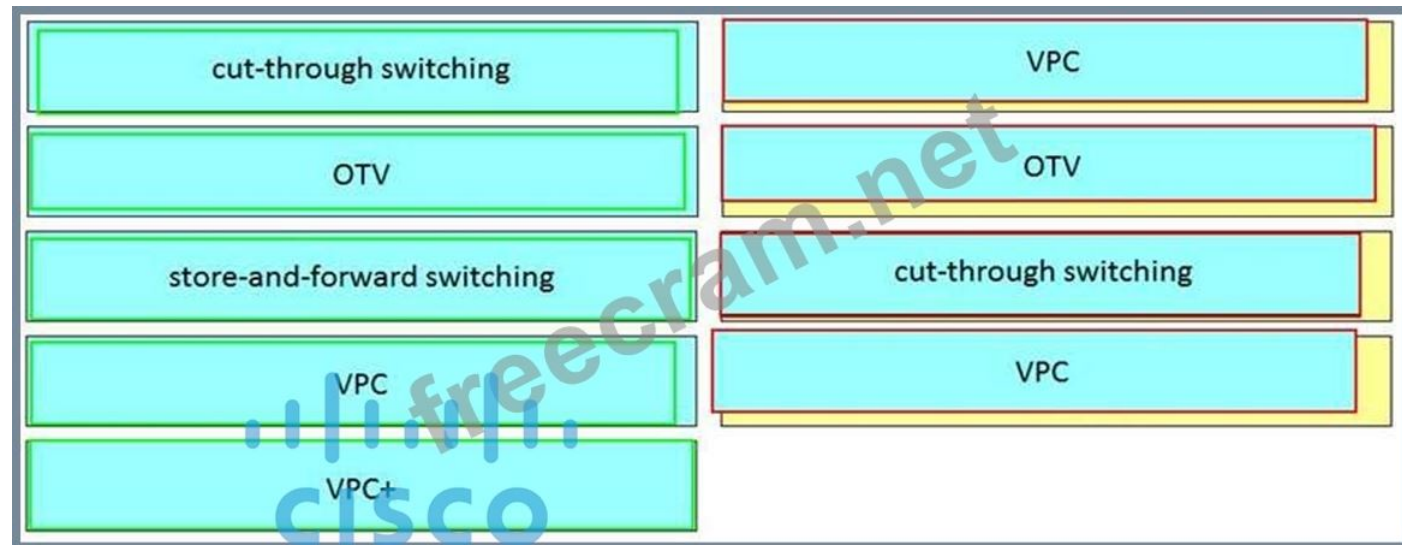
I believe that quiet boot and CDN control may have the customer name.

**NEW QUESTION: 125**

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

cut-through switching	connects a classical Ethernet vPC domain and a Cisco FabricPath cloud to interoperate
OTV	extends Layer 2 domains across distributed data centers
store-and-forward switching	performs Layer 2 lookup as soon as the destination MAC is received
vPC	two separate control planes, performs device aggregation
vPC+	

Answer:



**NEW QUESTION: 126**

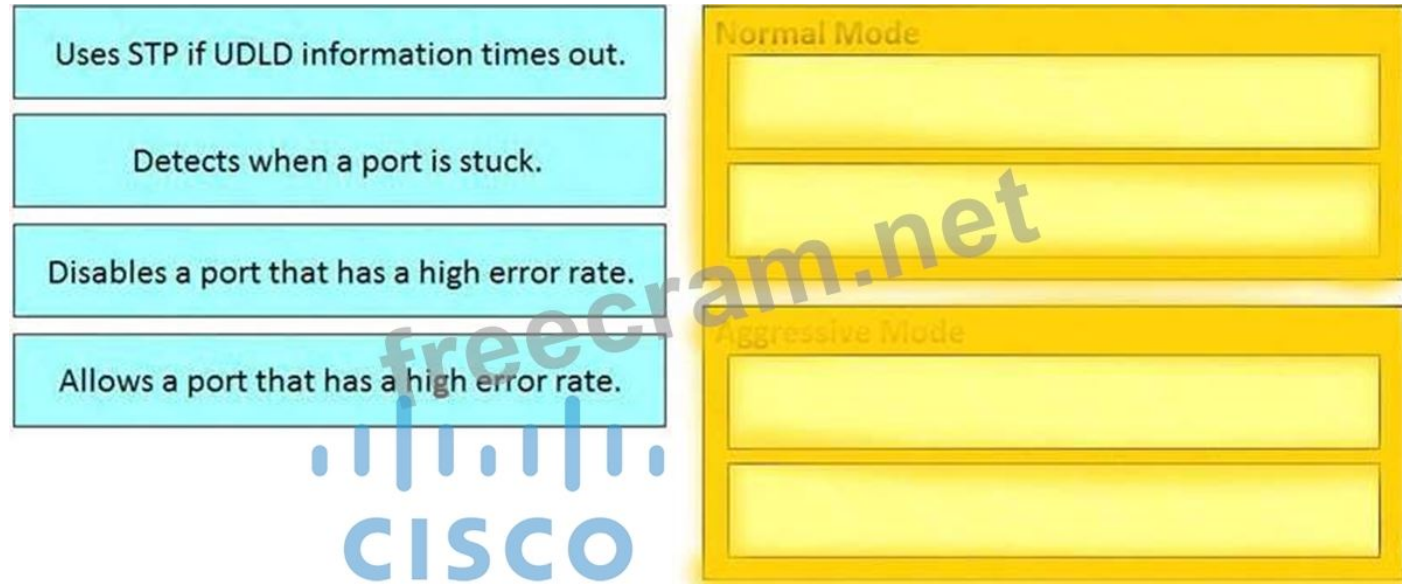
A Cisco UCS instance has four interfaces on a UCS VIC. Where on the fabric interconnect does each interface terminate?

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

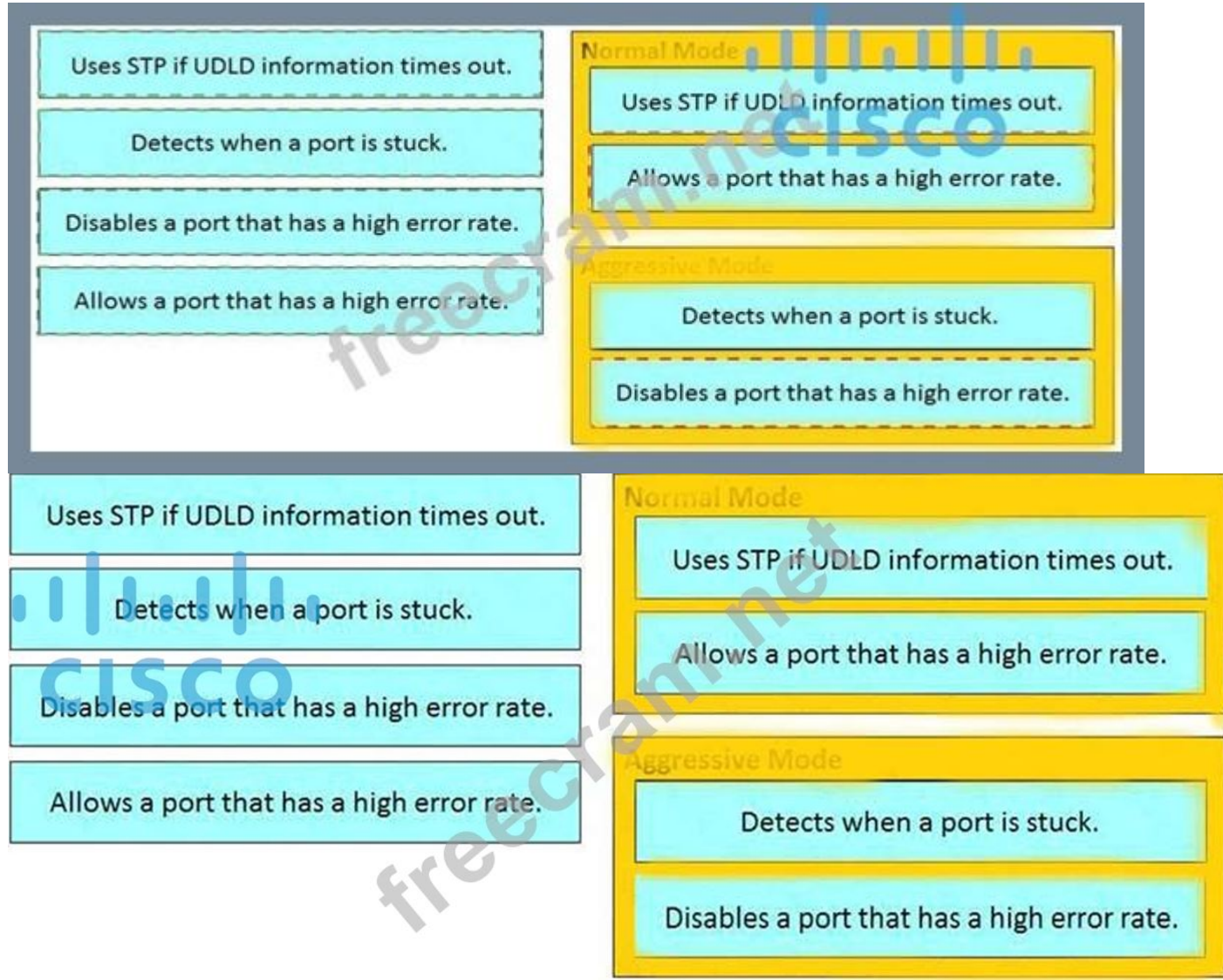
Answer: A ([LEAVE A REPLY](#))

**NEW QUESTION: 127**

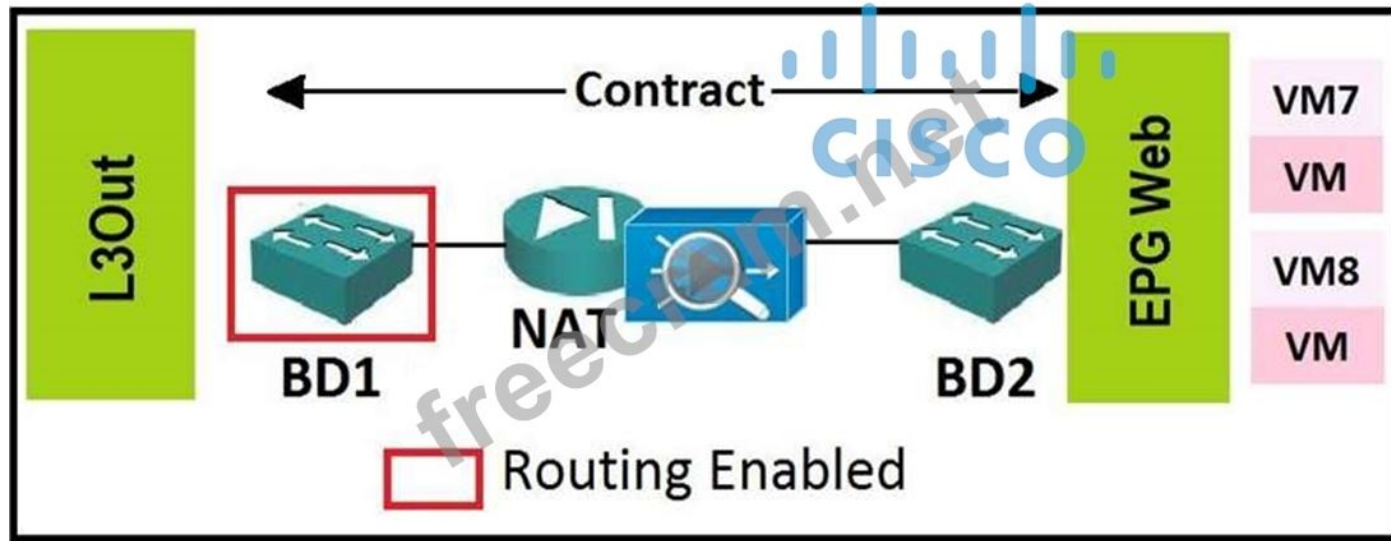
Drag the appropriate from the left onto the current UDLD modes of operation on the right.



Answer:



NEW QUESTION: 128  
Refer to the exhibit.



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

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 129**

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

fabric logins	used to logically separate a SAN fabric
ISL	must be considered for the end-to-end oversubscription ratio
VSAN	these exchanges increase as a result of server virtualization
zone	must be considered when implementing access control

Answer:



**NEW QUESTION: 130**

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

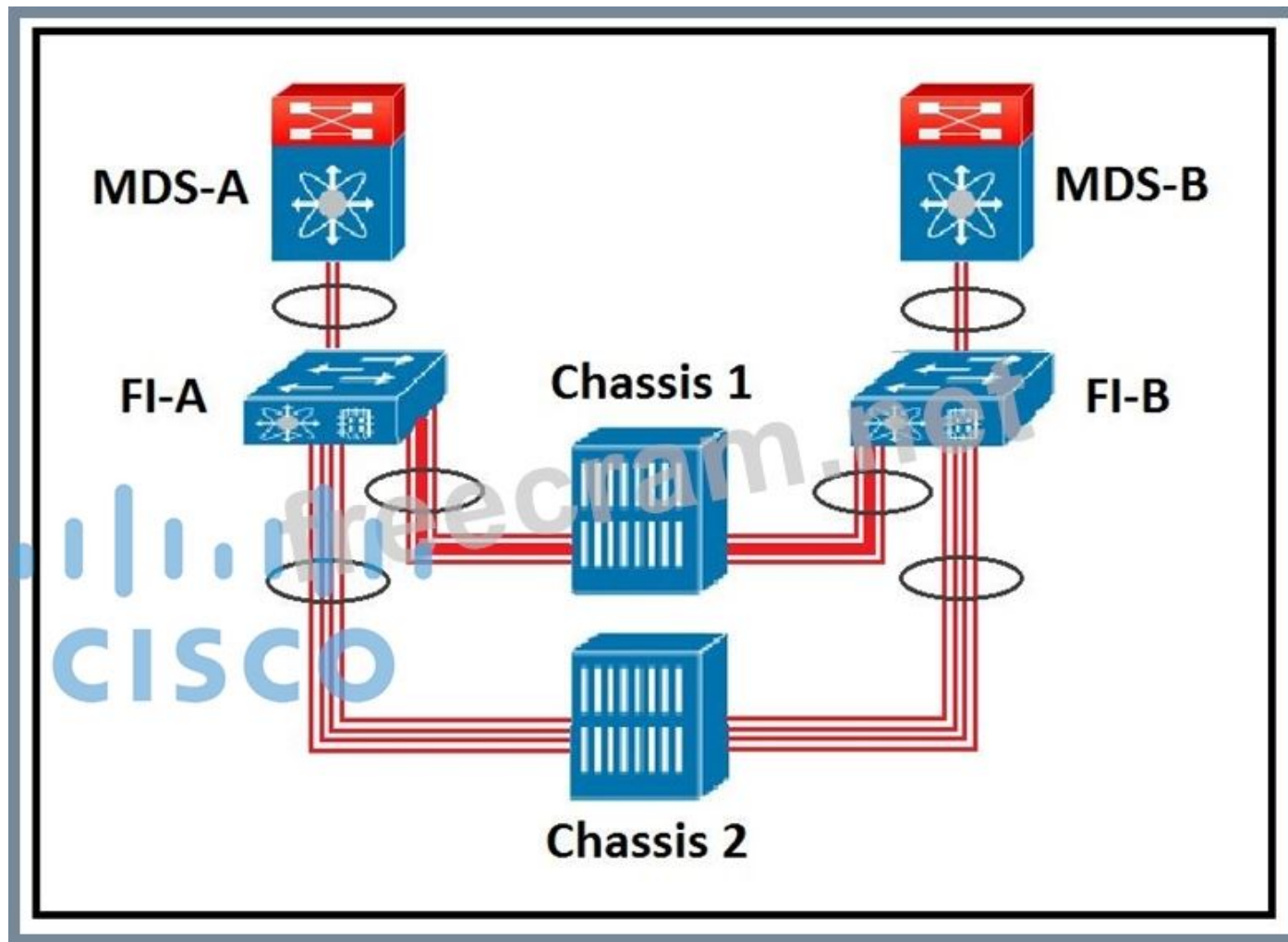
**Answer: (SHOW ANSWER)**

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

Furthermore, if the deployment requires that all traffic leaving/traversing the router must be encrypted, the overall throughput of the router is now restricted to the performance of the IPsec engine which, in most cases, can be a fraction of the router's aggregate forwarding capabilities. This is a huge factor from an economics perspective of cost per bit through the router and MACsec changes the encryption cost per bit through routing elements. For deployments requiring encryption and the capability of leveraging an Ethernet transport (public or private), MACsec offers a simplified, line-rate, per port encryption option for secure next-generation deployments.

**NEW QUESTION: 131**

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 132**

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.

BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.	step 1
If an alternate path is available, routers immediately start converging on it.	Step 2
The BFD neighboring session with the OSPF peer is terminated.	Step 3
The local OSPF process tears down the OSPF neighbor relationship.	Step 4

Answer:

BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.	The BFD neighboring session with the OSPF peer is terminated.	
If an alternate path is available, routers immediately start converging on it.	BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.	
The BFD neighboring session with the OSPF peer is terminated.	The local OSPF process tears down the OSPF neighbor relationship.	
The local OSPF process tears down the OSPF neighbor relationship.	If an alternate path is available, routers immediately start converging on it.	

**NEW QUESTION: 133**

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

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 134**

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

Answer: ([SHOW ANSWER](#))

## Pinning

Pinning in Cisco UCS is only relevant to uplink ports. You can pin Ethernet or FCoE traffic from a given server to a specific uplink Ethernet port or uplink FC port.

When you pin the NIC and HBA of both physical and virtual servers to uplink ports, you give the fabric interconnect greater control over the unified fabric. This control ensures more optimal utilization of uplink port bandwidth.

Cisco UCS uses pin groups to manage which NICs, vNICs, HBAs, and vHBAs are pinned to an uplink port. To configure pinning for a server, you can either assign a pin group directly, or include a pin group in a vNIC policy, and then add that vNIC policy to the service profile assigned to that server. All traffic from the vNIC or vHBA on the server travels through the I/O module to the same uplink port.

- Guidelines for Pinning

### Guidelines for Pinning

When you determine the optimal configuration for pin groups and pinning for an uplink port, consider the estimated bandwidth usage for the servers. If you know that some servers in the system will use a lot of bandwidth, ensure that you pin these servers to different uplink ports.

## NEW QUESTION: 135

A company purchased a Cisco UCS system with four 5108 Chassis populated with UCS B-Series servers. The environment consists of nine Cisco HyperFlex rack servers.

An engineer must provision virtual machines using an orchestration tool to optimize overall deployment time.

Which orchestration must be used to meet this requirement?

- A. Cisco Intersight
- B. Cisco AppDynamic
- C. Cisco Network Assurance
- D. Cisco DNA Center

Answer: ([SHOW ANSWER](#))

## NEW QUESTION: 136

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: ([SHOW ANSWER](#))

Section: Storage Network Design

Explanation/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](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: 137

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

- Uses STP if UDLD information times out.
- Detects when a port is stuck.
- Disables a port that has a high error rate.
- Allows a port that has a high error rate.

**Normal Mode**

**Aggressive Mode**

Answer:

Uses STP if UDLD information times out.	<b>Normal Mode</b>
Detects when a port is stuck.	Uses STP if UDLD information times out.
Disables a port that has a high error rate.	Allows a port that has a high error rate.
Allows a port that has a high error rate.	<b>Aggressive Mode</b>
	Detects when a port is stuck.
	Disables a port that has a high error rate.

Uses STP if UDLD information times out.	<b>Normal Mode</b>
Detects when a port is stuck.	Uses STP if UDLD information times out.
Disables a port that has a high error rate.	Allows a port that has a high error rate.
Allows a port that has a high error rate.	<b>Aggressive Mode</b>
	Detects when a port is stuck.
	Disables a port that has a high error rate.

**NEW QUESTION: 138**

A customer connects a high-speed Fibre Channel storage array to a Cisco MDS 9000 Series Switch using an 8 Gbps interface. Which action guarantees line rate traffic processing on the interface?

- A. Configure the interface rate mode as shared.
- B. Configure the interface rate mode as dedicated.
- C. Set global buffering with B2B\_credits for the interface.
- D. Set local buffering with B2B\_credits for the interface.

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 139**

A customer attaches an additional storage appliance to an existing Cisco UCS domain, which contains 50 virtualization hosts that require fabric failover connectivity on fabric interconnect B. The interfaces are bound to a separate pin group to segregate traffic with a CoS value of 0 Which Cisco UCS Manager feature meets these requirements?

- A. vNIC Template
- B. vHBA Templates
- C. storage policy
- D. SAN connectivity policy

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 140**

- A. IPsec over GRE
- B. VXLANEVPN
- C. OTV
- D. dark fiber

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 141**

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

Support tagging policies.

Scrub disks on disassociation.

Synchronize server power state.

Create a utility partition on a SD card.

Implement Hypervisor password policies.

Cisco Intersight Global Policy

Cisco UCS Manager Local Policy

Answer:

Support tagging policies.	<b>Cisco Intersight Global Policy</b> Implement Hypervisor password policies. Synchronize server power state. Support tagging policies.
Scrub disks on disassociation.	
Synchronize server power state.	
Create a utility partition on a SD card.	
Implement Hypervisor password policies.	<b>Cisco UCS Manager Local Policy</b> Scrub disks on disassociation. Create a utility partition on a SD card.

**NEW QUESTION: 142**

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

- A. A separate DSCP value must be configured for all FCIP VSAN traffic.
- B. A separate DSCP value and priority queuing must be configured for all FCIP traffic.
- C. 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.
- D. A separate DSCP value and CoPP must be configured for all FCIP traffic and another for all of the FCIP in the data connection.

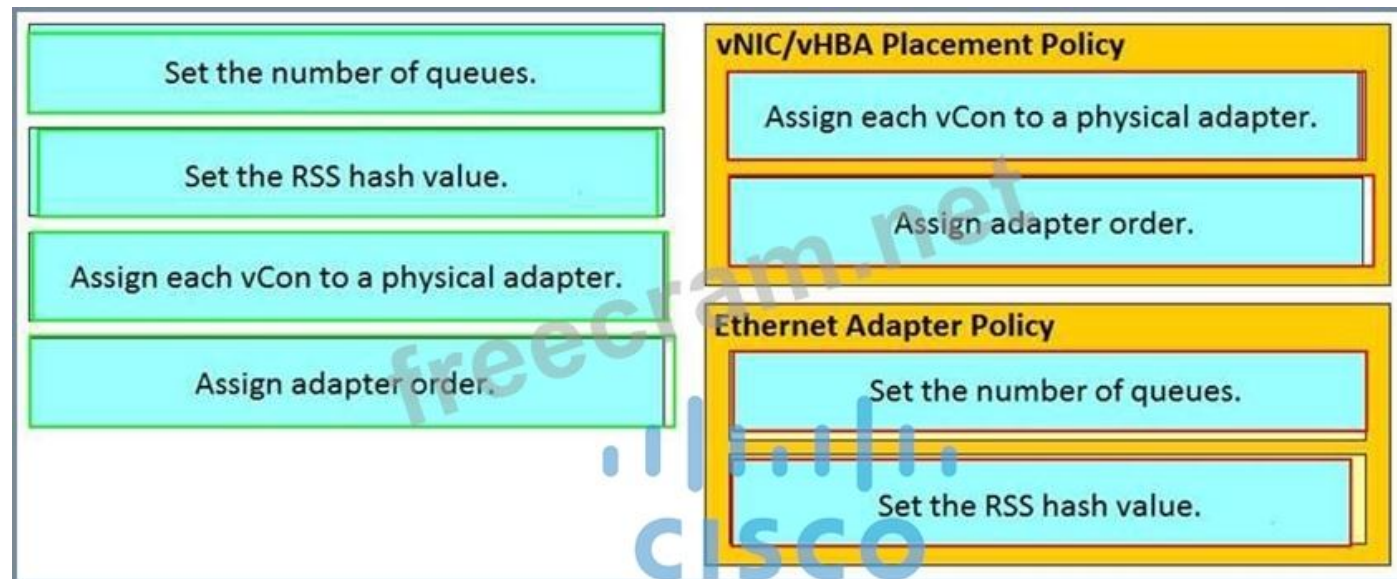
Answer: (SHOW ANSWER)

**NEW QUESTION: 143**

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

Set the number of queues.	<b>vNIC/vHBA Placement Policy</b>  
Set the RSS hash value.	
Assign each vCon to a physical adapter.	<b>Ethernet Adapter Policy</b>  
Assign adapter order.	

Answer:



**NEW QUESTION: 144**

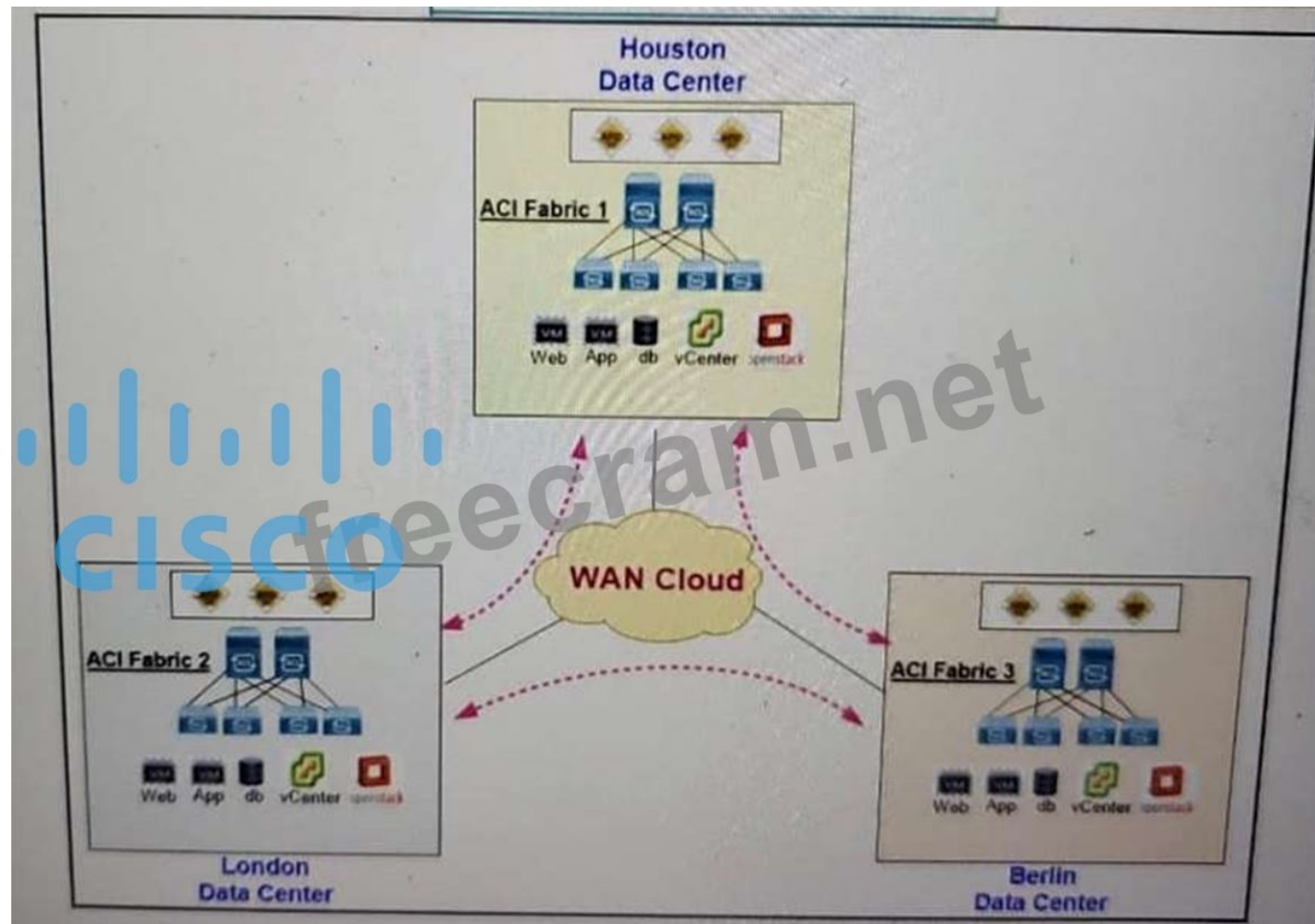
An engineer working for a private telecommunication company with an employee id 4298 53 420 must evaluate connectivity to the new data centre location based on Cisco Nexus 7000 Series Switches. The IP connectivity is already supplied by the service provider. The solution must provide a Layer 2 extension and optimize the traffic localization Which technology supports these requirements?

- A. IS-IS multi site over ACI
- B. VXLAN over EoMPLS
- C. OTV over IP and multicast
- D. BGP over VPLS

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 145**

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: (SHOW ANSWER)**

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

**NEW QUESTION: 146**

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: 147**

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 148**

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 149**

Refer to the exhibit.

```
Switch(config-sys-qos)# show policy-map system
  Type network-qos policy-maps
=====
policy-map type network-qos system
  class type network-qos class-fcoe
    match qos-group 1
    pause no-drop
    mtu 2000
  class type network-qos class-default
    match qos-group 0
    mtu 1500
Service-policy (qos) input: system
policy statistics status: disabled
Class-map (qos) : class fcoe (match-any)
  Match : cos 3
  set qos-group 1
Class-map (qos) : class-default (match-any)
  Match: any
  set qos-group 0
```

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

- A. 2158 bytes
- B. 2000 bytes
- C. 9000 bytes
- D. 2240 bytes

Answer: ([SHOW ANSWER](#))

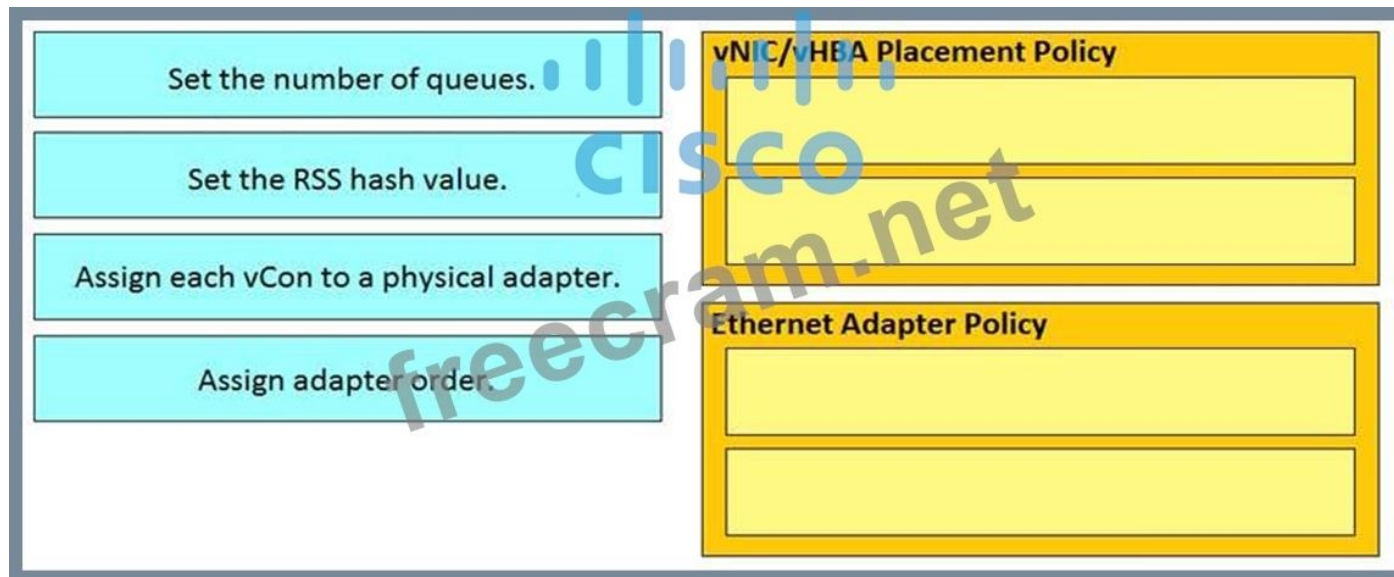
**NEW QUESTION: 150**

- A. nx\_sdk\_pyValid-to\_int
- B. postCliCb
- C. clicm.printConsole
- D. pyCmdhandler

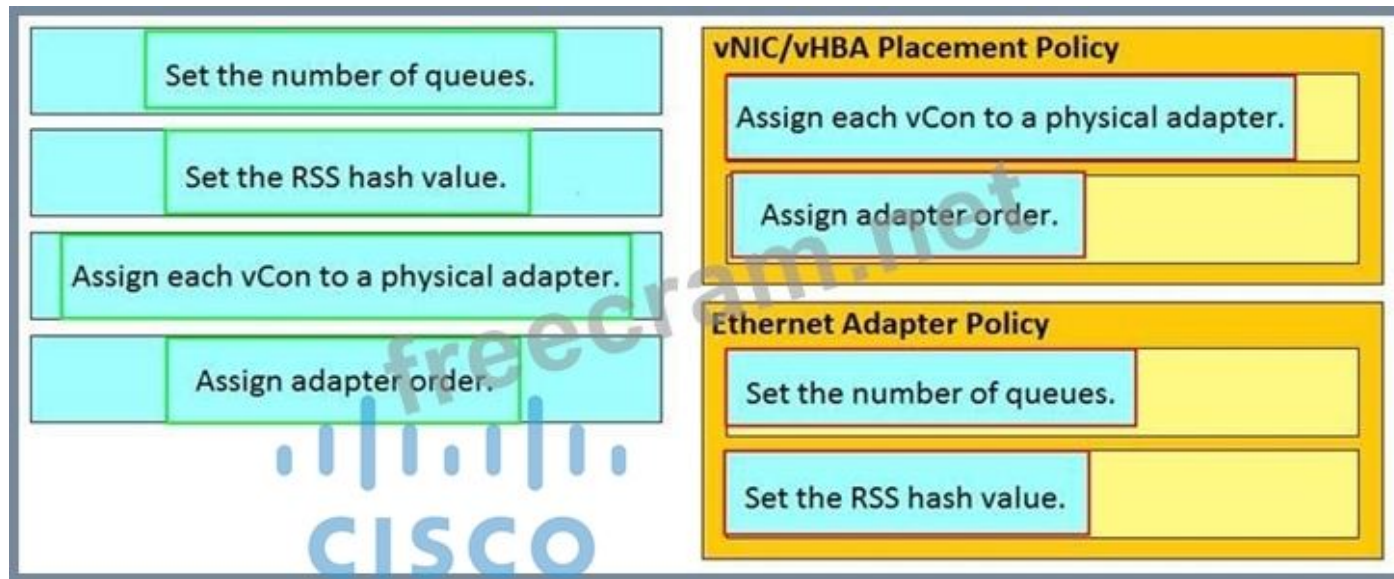
Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 151**

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



Answer:



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**NEW QUESTION: 152**

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: (SHOW ANSWER)**

[https://www.cisco.com/en/US/docs/unified\\_computing/ucs/sw/gui/config/guide/141/UCSM\\_GUI\\_Configuration\\_Guide\\_141\\_chapter19.html](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: 153**

Refer to the exhibit.

**Create vHBA Template**

Name :

Description :

Fabric ID :  A  B

Redundancy

Redundancy Type :  No Redundancy  Primary Template  Secondary Template

Select VSAN : default

Template Type :  Initial Template  Updating Template

Max Data Field Size : 2048

WWPN Pool : Select (pool default used by default) ▼

QoS Policy : <not set> ▼

Pin Group : <not set> ▼

Stats Threshold Policy : default ▼

Which template is used when a vHBA template pair is created for a specific server that inherits its attributes from an existing template?

- A. Primary
- B. Initial
- C. Updating
- D. Secondary

Answer: ([SHOW ANSWER](#))

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