

## Cisco.300-610.v2024-03-04.q159

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### NEW QUESTION: 1

A network engineer is designing a Cisco Hyperflex infrastructure. The Infrastructure will be connected to an external SAN fiber channel array and must support Microsoft clustering.

Which storage connectivity method must be used to meet these requirements?

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

**Answer: C (LEAVE A REPLY)**

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

### HyperFlex Integration with External Storage

One of the differentiators of HX is the use of UCS to easily integrate with external storage. HX integrates with existing storage infrastructures via the UCS connectivity to SANs and network-attached storage (NAS). Outside fibre channel storage connects to the fabric interconnect via fibre channel interfaces. Similarly, iSCSI storage connects via Ethernet. Storage devices also connect to the UCS VIC. Interfaces on the VICs are configured, via software, as either FCoE or Ethernet depending on the storage requirement. This enables the customer to work with both SANs and hyperconverged infrastructure and easily migrate traffic. Examples of some applications where HX integrates with legacy infrastructure include

- ■ Boot and run VMs that are stored on the legacy SAN.
- ■ Use the SAN for storage backup.
- ■ Migrate VMs and storage to the newer hyperconverged infrastructure.
- ■ Use raw device mapping (RDM) from the fibre channel array for Microsoft clustering.

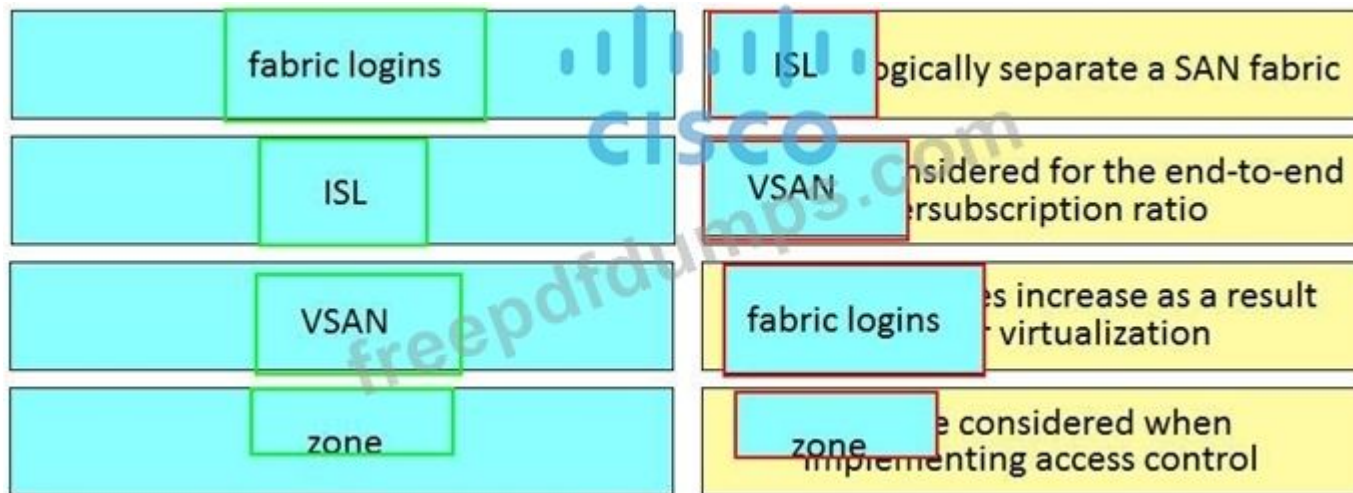
By connecting HX to external storage arrays, administrators can connect fibre channel LUNs from an IBM VersaStack or connect to Network File System (NFS) volumes on a NetApp FlexPod. RDM, for example, allows a VM on HX to use the full LUN on a storage array that is used for Microsoft clustering services, thus allowing multiple Microsoft servers to share storage.

#### NEW QUESTION: 2

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:

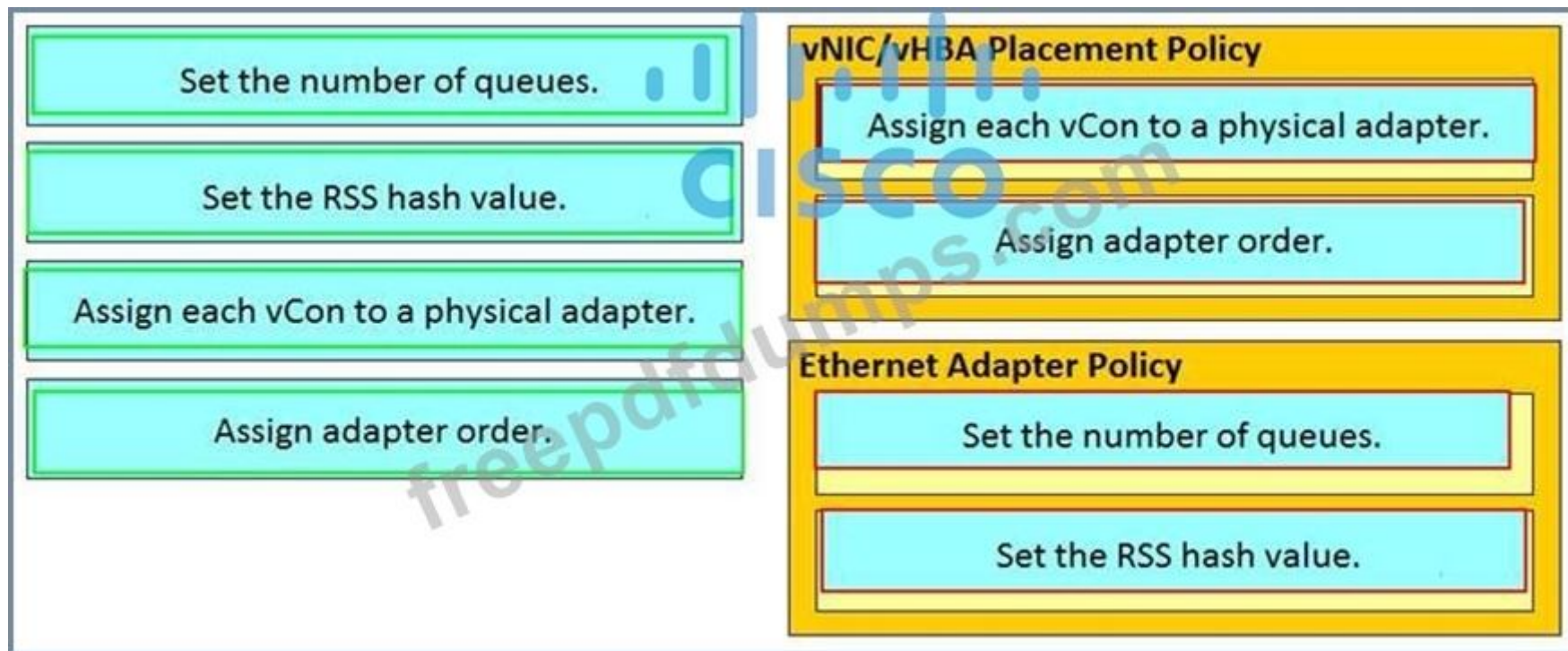


**NEW QUESTION: 3**

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> <input type="text"/> <input type="text"/>
Set the RSS hash value.	
Assign each vCon to a physical adapter.	<b>Ethernet Adapter Policy</b> <input type="text"/> <input type="text"/>
Assign adapter order.	

**Answer:**



**NEW QUESTION: 4**

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

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

**Answer: A (LEAVE A REPLY)**

Section: Compute Design

**NEW QUESTION: 5**

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.
- 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**

- Uses STP if UDLD information times out.
- Allows a port that has a high error rate.

**Aggressive Mode**

- Detects when a port is stuck.
- Disables a port that has a high error rate.

**NEW QUESTION: 6**

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

Which mechanism must be deployed to support these requirements?

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

**Answer: B (LEAVE A REPLY)**

**NEW QUESTION: 7**

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 B

B. Option D

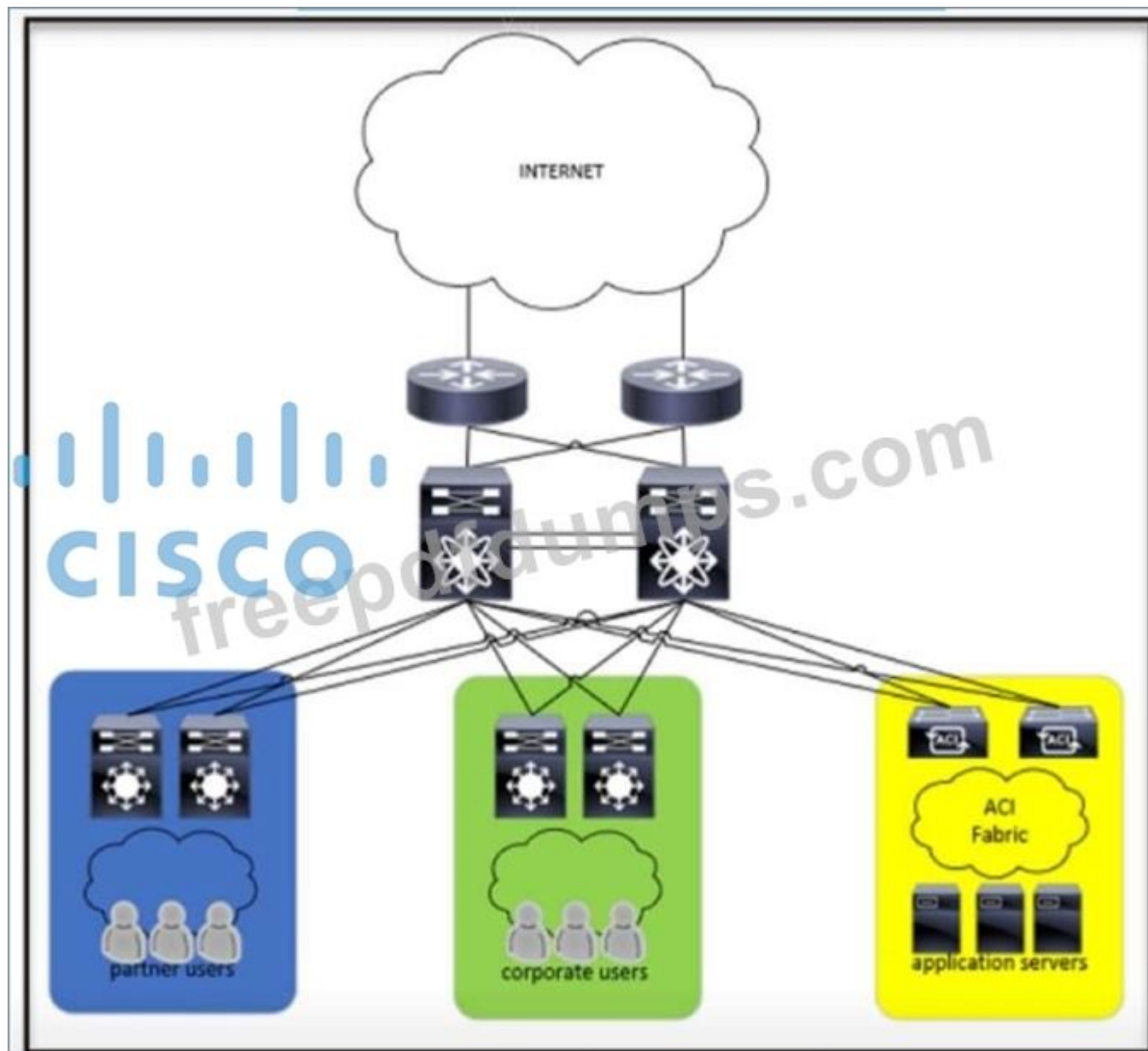
C. Option A

D. Option C

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 8**

Refer to the exhibit.



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

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

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

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

**Answer: D (LEAVE A REPLY)**

**NEW QUESTION: 9**

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

Which solution meets these requirements?

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

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

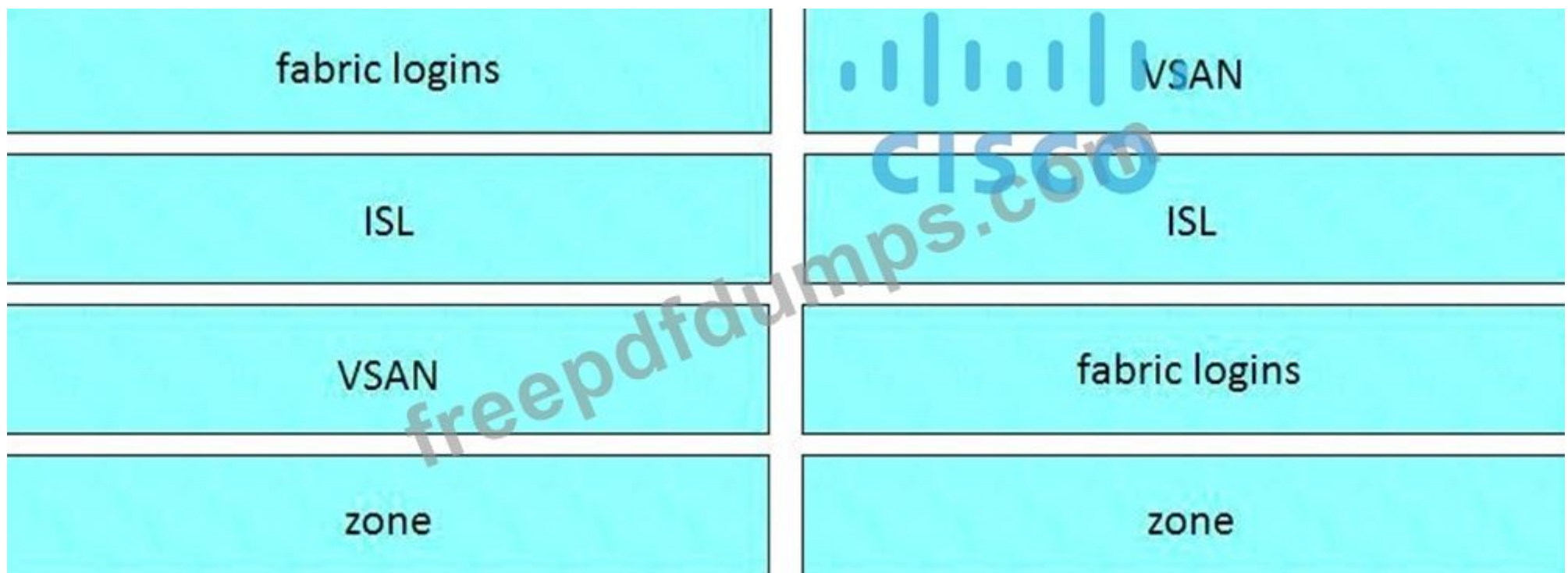
**NEW QUESTION: 10**

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



**NEW QUESTION: 11**

A engineer wants to eliminate the manual process of checking the system hardware and firmware against a specified hardware compatibility tool. The tool must be able to manage an extensive list of devices including cisco HyperFlex, MDS, and Nexus switches. The tool must manage hardware in multiple data centers so it should be deployed on public cloud infrastructure. Which tool meets these requirements?

- A. Cisco UCS director
- B. Cisco tetration
- C. Cisco data center network manager
- D. Cisco intersight

**Answer: D (LEAVE A REPLY)**

**NEW QUESTION: 12**

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

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

**Answer: D (LEAVE A REPLY)**

**NEW QUESTION: 13**

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

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

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

**NEW QUESTION: 14**

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.

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: 15**

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:**

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

**NEW QUESTION: 16**

Which two types of service profile templates does Cisco UCS support? (Choose two.)

- A. updating
- B. initial
- C. connected
- D. permanent
- E. temporary

Answer: ([SHOW ANSWER](#))

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**NEW QUESTION: 17**

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

{prefix}. 2019-01.com.acme.123:00. ftd0cb21.bcb389458389

Which addressing scheme was used in the environment?

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 18**

An engineer must design a solution based on Cisco Nexus 7709 Switches. The solution must connect test and development network segments and separate the enterprise applications from the production network. The network security team requires routing instances and the IP stack to be completely separated from each other and for traffic between the environments to undergo a deep packet inspection. The development team also requests the ability to allocate additional physical interfaces from the Cisco Nexus 7709 device in each environment.

Which solution meets these requirements?

- A. 1) Enable new routing instances for the testing and development environments in the same VDC.  
2) Control reachability by using firewall access policies.
- B. 1) Create a VRF for the testing and development environments.  
2) Use ACLs to control traffic between the two environments.
- C. 1) Create a separate VRF for the testing and development environments.  
2) Control reachability by using firewall access policies.
- D. 1) Assign a separate VDC for the testing and development environments.  
2. Place a firewall between the VDCs.

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 19**

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. Configure the FCoE VLAN traffic on a separate interface from any other VLANs that traverse the network.
- B. Configure the FCoE VLAN in the VSAN database before including it in the trunk port.
- C. Implement host-facing FCoE ports as spanning-tree port type edge.
- D. Implement FCoE traffic on VLAN 10 and data traffic on VLAN 99.

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 20

An engineer configured the OSPF protocol in the vPC topology. During the catastrophic failure of one of the vPC the member switches, the traffic was routed to a black hole. This route was caused by the long convergence time caused by the delay of the of the vPC member switch reboot. After the failure, the engineer rebooted both switches, but the secondary switch powered on before the primary one. It caused all the vPCs to be shut down due to consistency-check violations. Which two features must be used to prevent these situations from happening in the future? (Choose two.)

- A. auto-recovery
- B. system priority
- C. delay restore
- D. ip arp synchronize
- E. peer-gateway

Answer: ([SHOW ANSWER](#))

System priority is related to LACP, not vPC, so it is out. ARP s

Reference:

<https://www.cisco.com/c/en/us/support/docs/ios-nx-os-software/nx-os-software/212589-understanding-vpc-election-process.html>

**Why do we need vPC Auto-Recovery?**

There are two main reasons for this vPC enhancement:

- In a data center outage or power outage, both vPC peers that are comprised of Nexus 7000 switches are off. Occasionally, only one of the peers can be restored. Since the other Nexus 7000 is still off, the vPC peer-link and the vPC peer-keepalive link are also off. In this scenario, the vPC does not come on even for the Nexus 7000 which is already on. All vPC configurations have to be removed from the port-channel on that Nexus 7000 to cause the port-channel to work. When the other Nexus 7000 comes on, you have to again make configuration changes to include the vPC configuration for all the vPCs. In Release 5.0(2) and later, you can configure the **reload restore** command under the vPC domain configuration to address this problem.
- For some reason, the vPC peer-link goes off. Since the vPC peer-keepalive is still on, the vPC secondary peer device turns all its vPC member ports off due to dual-active detection. Hence all the traffic goes through the vPC primary switch. For some reason, the vPC primary switch also goes off. **This switch problem black holes the traffic since the vPCs on the secondary peer device are still off because it detected dual-active detection before the vPC primary switch went off.**

In Release 5.2(1) and later, the vPC auto-recovery feature merges these two enhancements.

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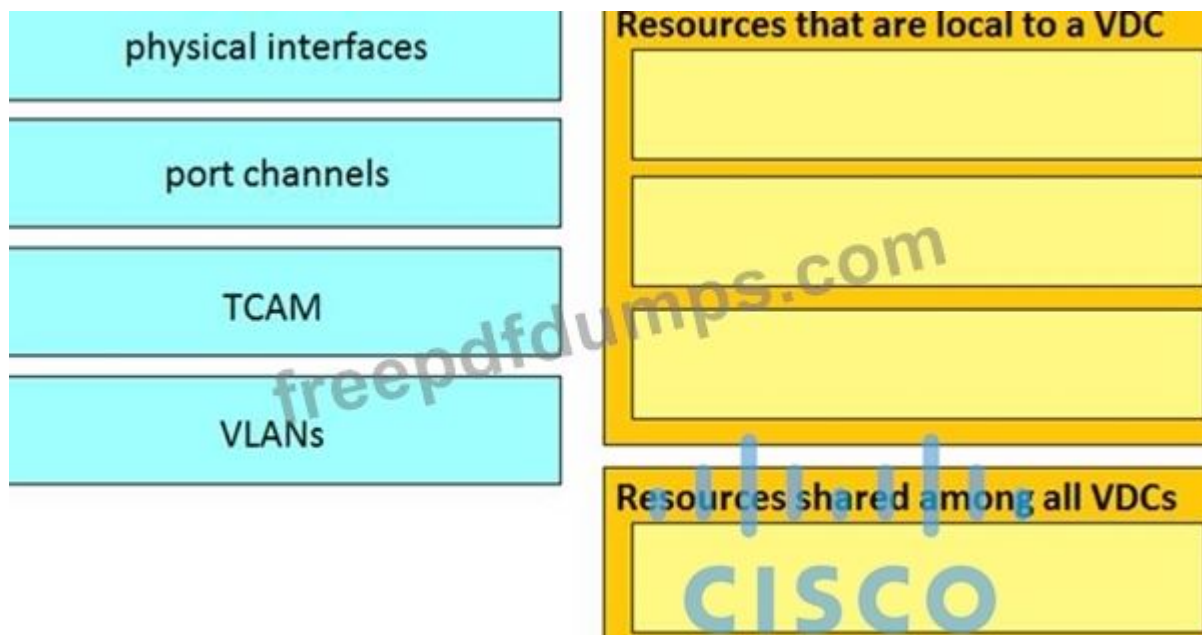
**vPC Delay Restore**

After a vPC peer device reloads and comes back up, the routing protocol needs time to reconverge. **The recovering vPCs leg may black-hole routed traffic from access to aggregation/core until uplink Layer 3 connectivity is reestablished.**

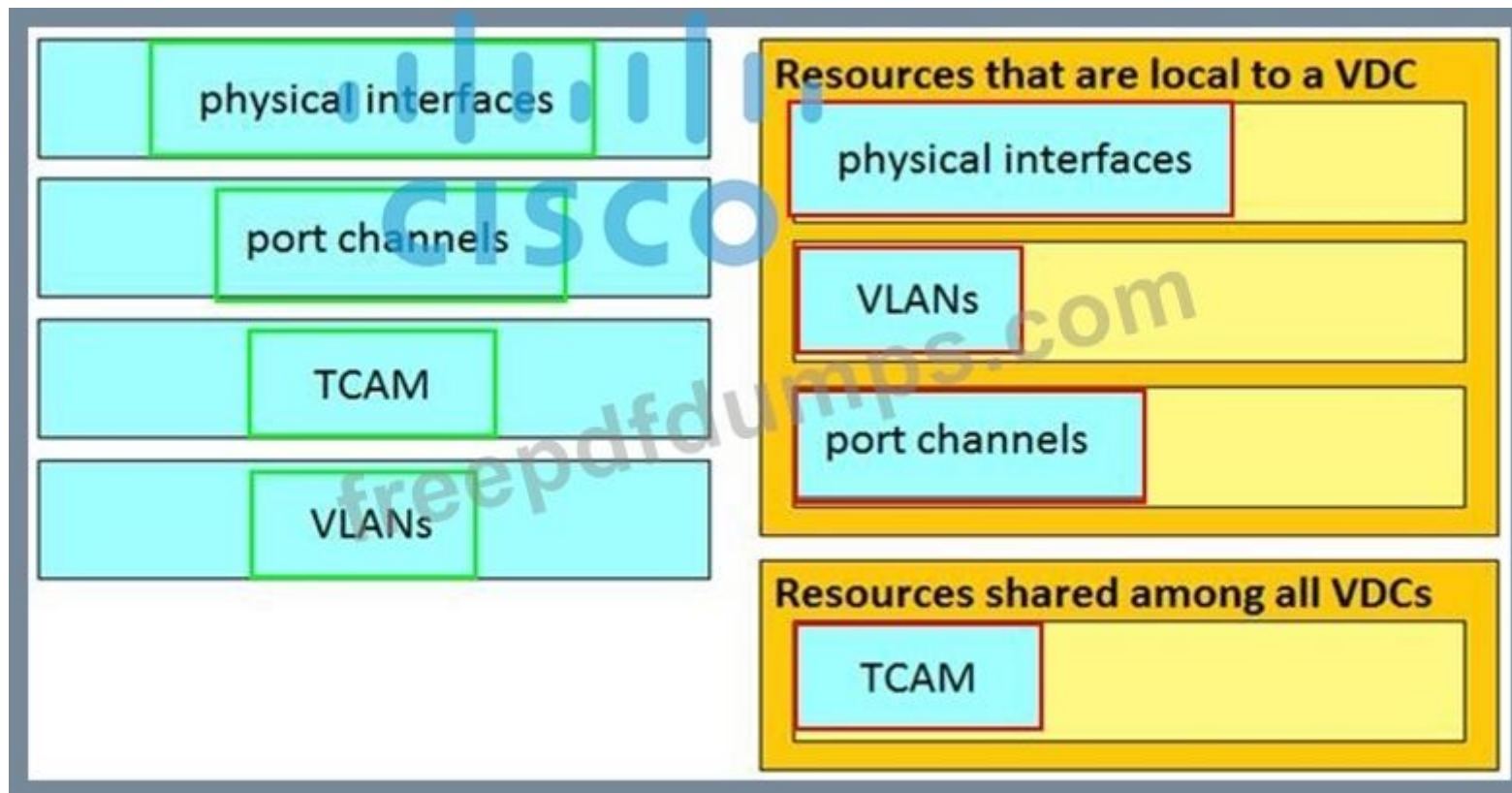
vPC Delay Restore feature delays vPCs leg bring-up on the recovering vPC peer device. vPC Delay Restore allows for Layer 3 routing protocols to converge before allowing any traffic on vPC leg. This results in a more graceful restoration and zero packet loss during the recovery phase (traffic still get diverted on the alive vPC peer device). This feature is enabled by default with a vPC restoration default timer of 30 seconds. The timer can be tuned according to a specific Layer 3 convergence baseline from 1 to 3600 seconds.

#### NEW QUESTION: 21

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

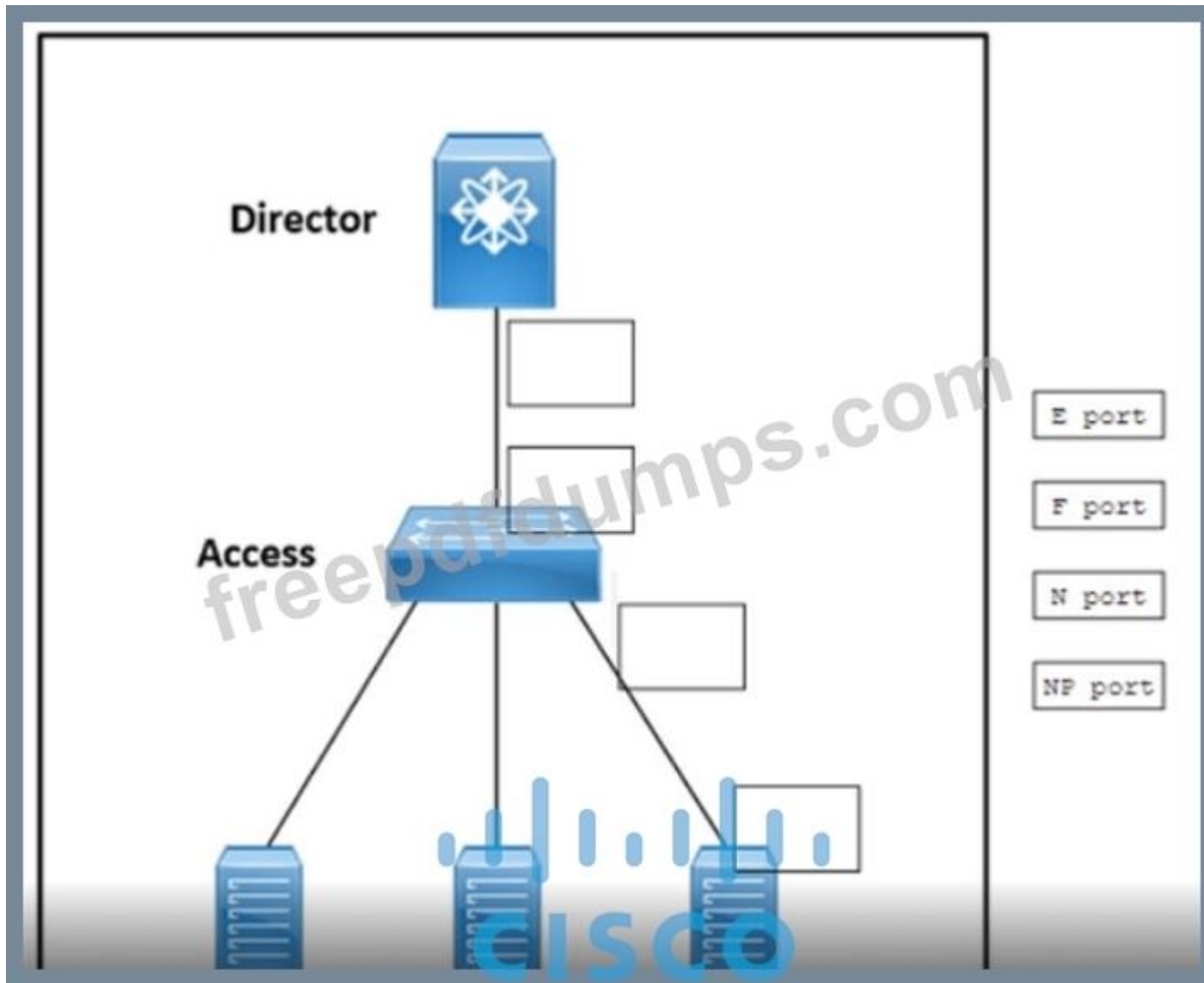


Answer:

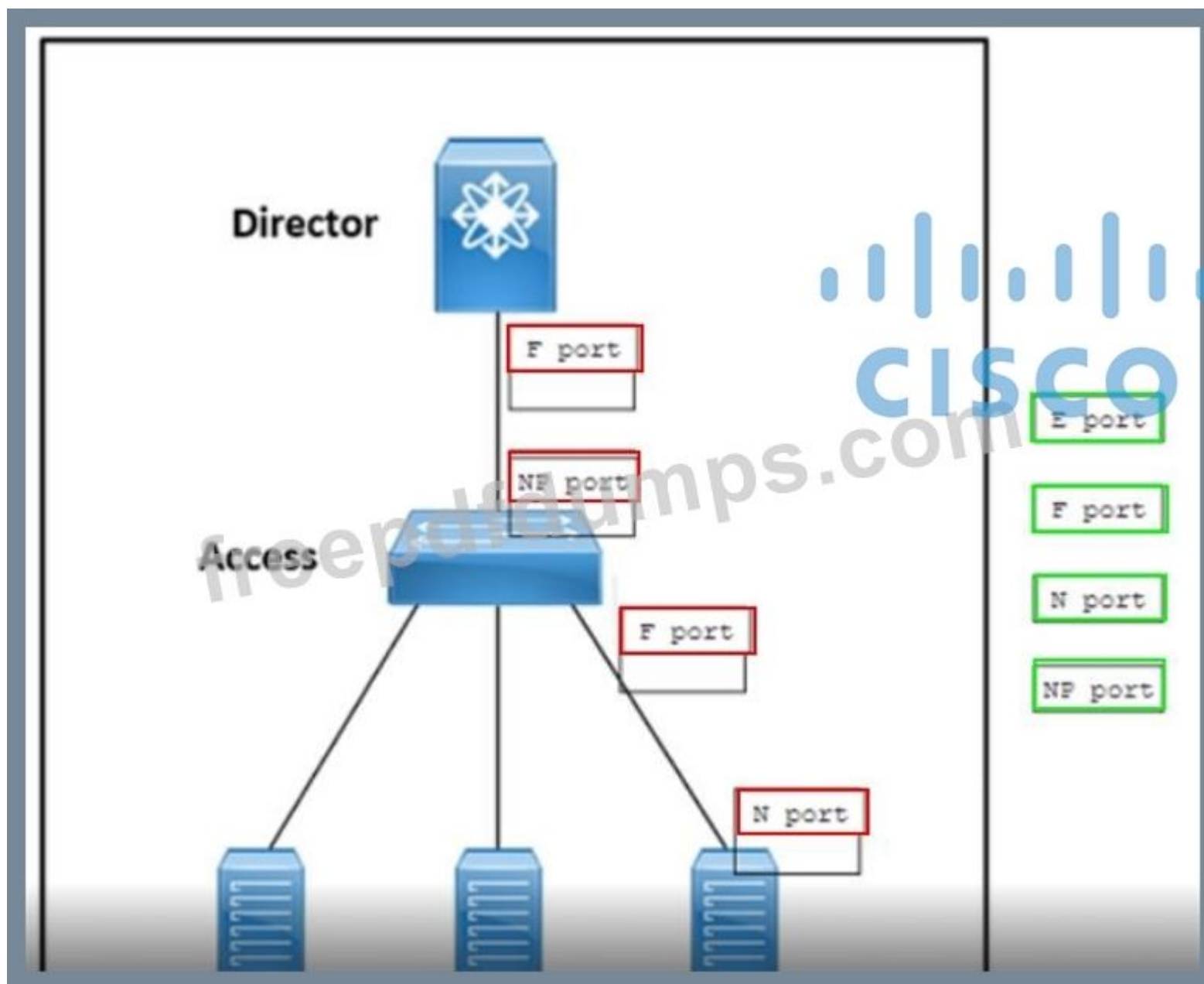


NEW QUESTION: 22

Refer to the exhibit.



Answer:



An engineer must deploy a SAN that meets these criteria:

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

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

### NEW QUESTION: 23

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

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

**Answer: B (LEAVE A REPLY)**

**NEW QUESTION: 24**

A set of virtual machines must be live migrated from a data center to a disaster recovery site. The data center and disaster recovery sites are connected through an Inter-Pod Network topology. The gateway address of the virtual machine is the same across the data center and disaster recovery. Which Cisco Nexus feature supports this requirement?

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

**Answer: B (LEAVE A REPLY)**

**NEW QUESTION: 25**

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/tap/3151502#toc-hId-1043251551>

**NEW QUESTION: 26**

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

physical interfaces

port channels

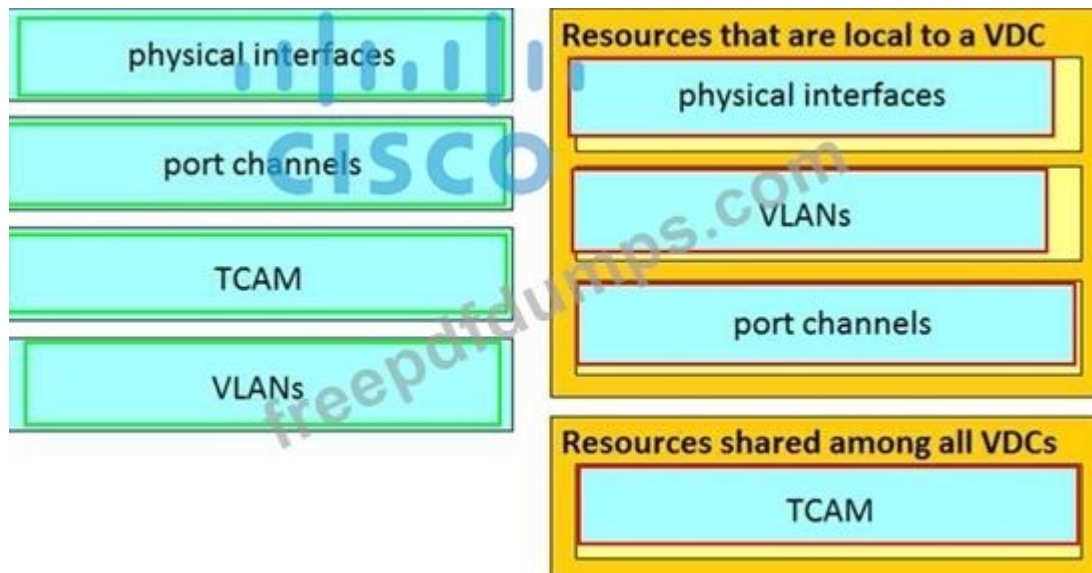
TCAM

VLANs

Resources that are local to a VDC

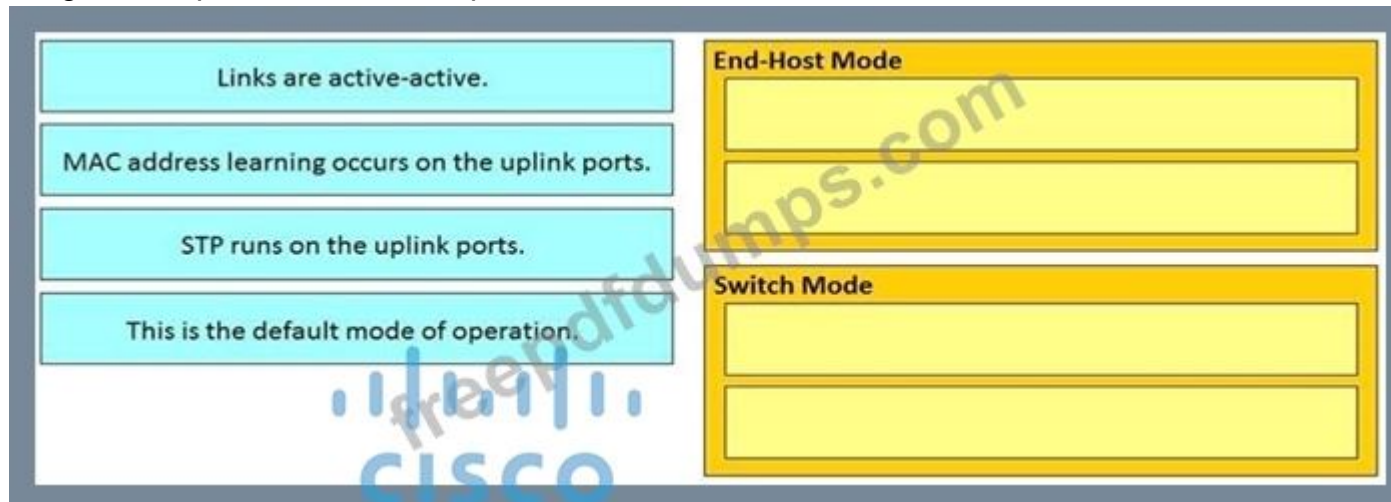
Resources shared among all VDCs

**Answer:**

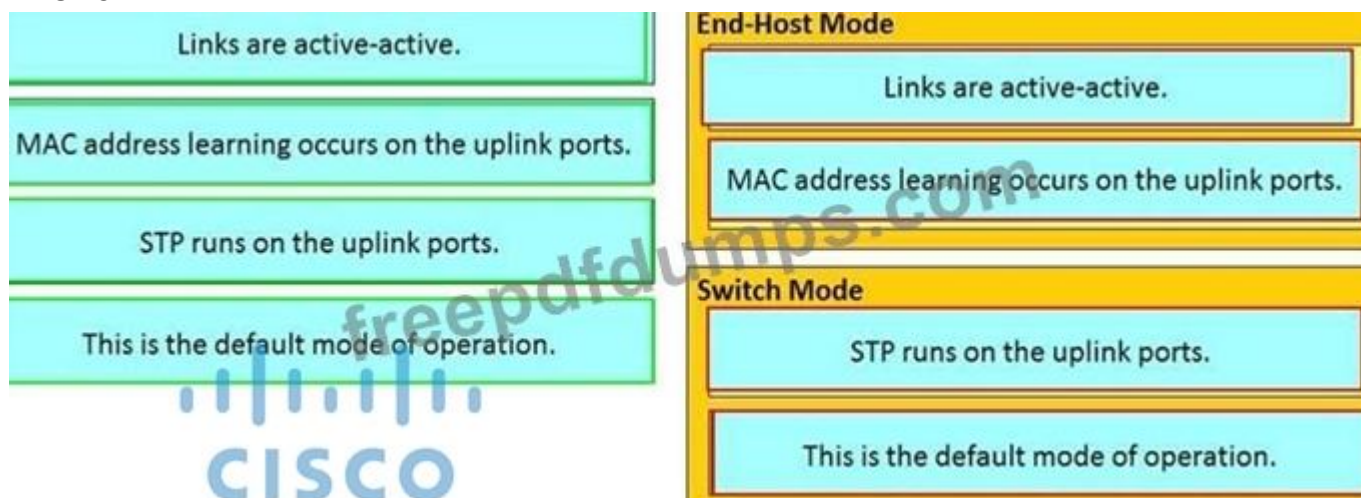


**NEW QUESTION: 27**

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

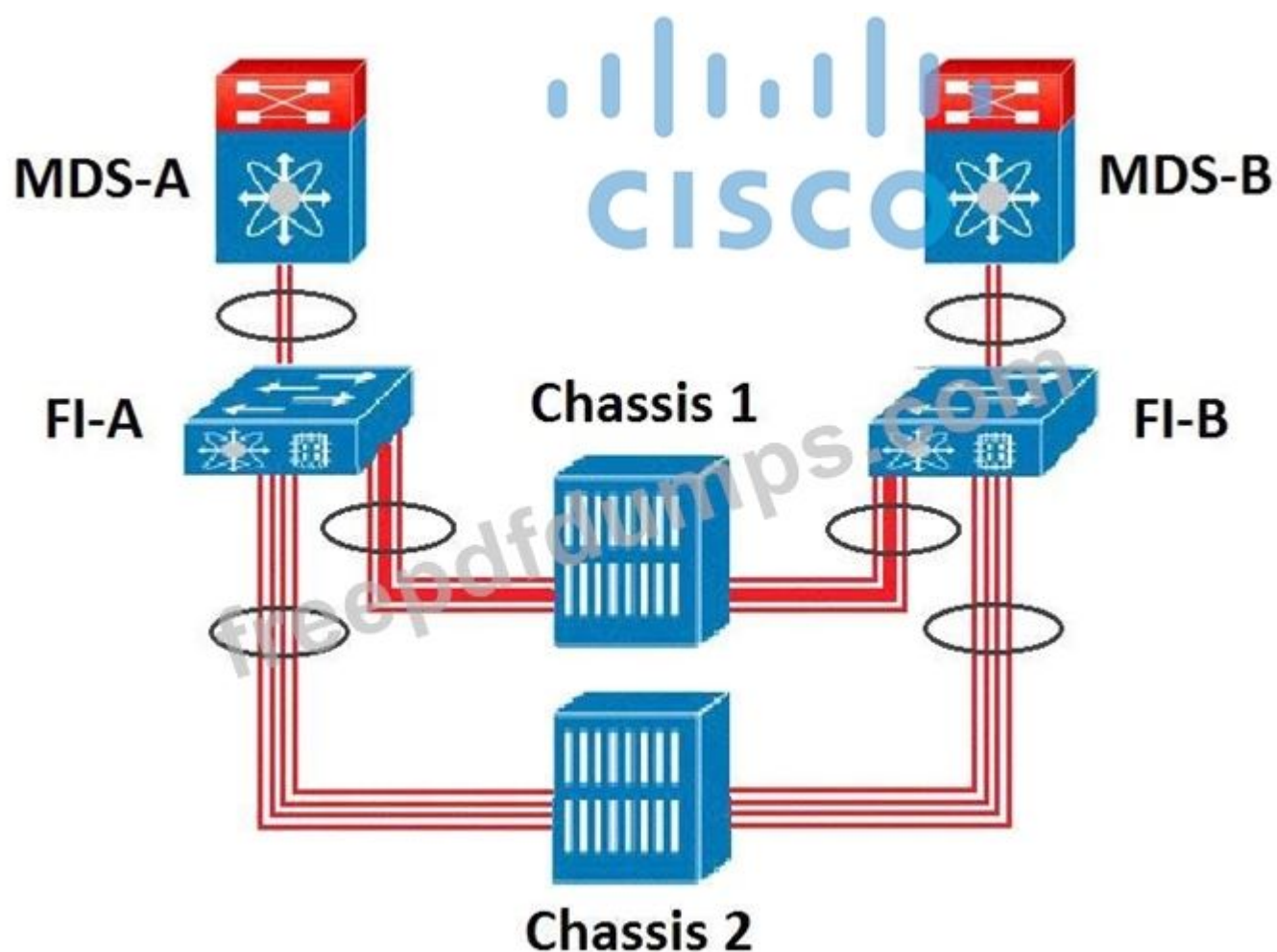


**Answer:**



**NEW QUESTION: 28**

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

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

#### NEW QUESTION: 29

Where does Cisco UCS handle Fibre Channel traffic failover?

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

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

#### NEW QUESTION: 30

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

- A. Layer 4 to Layer 7 device package

- B. ITD
- C. BGP ECMP
- D. inline load-balancing device

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

#### NEW QUESTION: 31

An engineer is designing a disaster recovery solution. In the event of a node failure, the solution should either direct all of the traffic to another node, or load-balance the traffic across the remaining nodes. Which solution should be implemented in the design?

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

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

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#### NEW QUESTION: 32

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: 33**

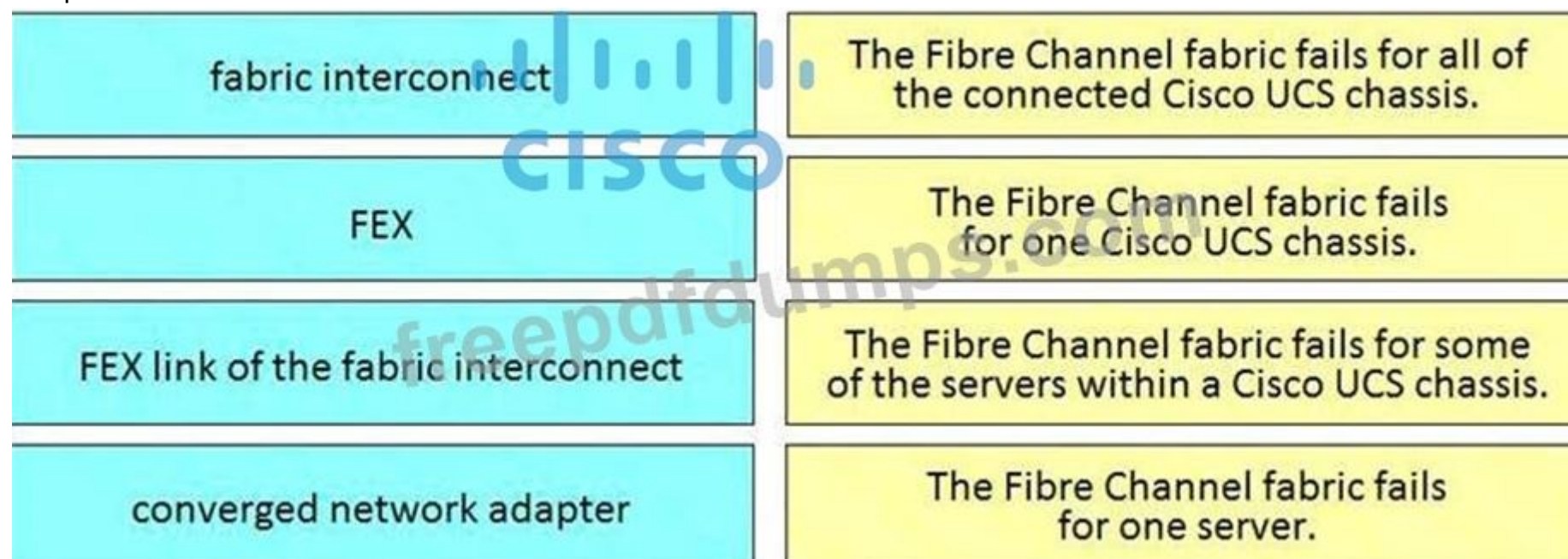
What are two advantages of using Cisco vPC over traditional access layer designs? (Choose two.)

- A. supports Layer 3 port channels
- B. uses all available uplink bandwidth
- C. no spanning-tree blocked ports
- D. maintains single control plane
- E. disables spanning-tree

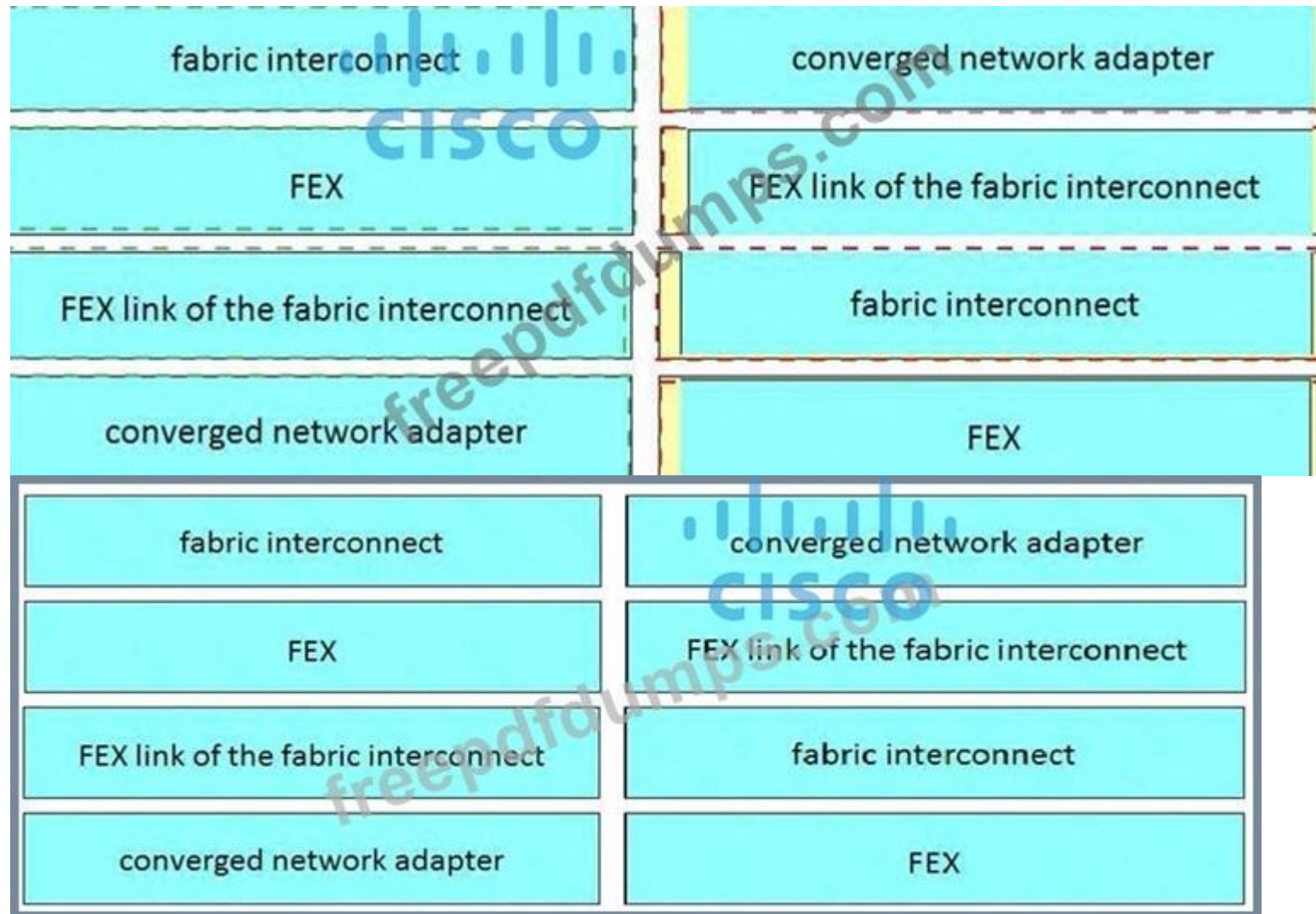
Answer: B,C ([LEAVE A REPLY](#))

**NEW QUESTION: 34**

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: 35**

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

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

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

**NEW QUESTION: 36**

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

Which technology must be used to support these requirements?

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

D. IPsec

**Answer: C (LEAVE A REPLY)**

Reference:

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

**NEW QUESTION: 37**

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: 38**

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

A. MAC

B. IP

C. UUID

D. WWPN

**Answer: A (LEAVE A REPLY)**

**NEW QUESTION: 39**

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

A. reduction in application performance

B. distance limitations

C. specific backup requirements

D. potential data loss

**Answer: (SHOW ANSWER)**

Section: Storage Network Design

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

**NEW QUESTION: 40**

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: ([SHOW ANSWER](#))

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: 41

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: 42

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. FCIP tunneling between data center

- C. synchronous replication between data centers
- D. asynchronous replication between data centers

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

#### NEW QUESTION: 43

Refer to the exhibit.

Create vHBA Template

Name :

Description :

Fabric ID :  A  B

Redundancy

Redundancy Type :  No Redundancy  Primary Template  Secondary Template

Select VSAN :

Template Type :  Initial Template  Updating Template

Max Data Field Size :

WWPN Pool :

QoS Policy :

Pin Group :

Stats Threshold Policy :

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

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

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

#### NEW QUESTION: 44

An engineer must implement an iSCSI storage connectivity in the existing Cisco UCS environment. The environment is based on Cisco UCS C-Series rack server, Cisco Nexus 1000V Series Switches, and VMware ESXi hosts. The implementation must meet these requirements:

Provide multipathing and high availability in the event of a critical path failure.

Be cost-effective and not require the purchase of new equipment.

Which two components must be selected to meet these requirements? (Choose two.)

- A. system VLAN

- B. storage binding
- C. hardware iSCSI NIC
- D. uplink pinning
- E. software iSCSI adapter

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 45

An engineer configured the OSPF protocol in the vPC topology. During the catastrophic failure of one of the vPC the member switches, the traffic was routed to a black hole. This route was caused by the long convergence time caused by the delay of the of the vPC member switch reboot. After the failure, the engineer rebooted both switches, but the secondary switch powered on before the primary one. It caused all the vPCs to be shut down due to consistency-check violations. Which two features must be used to prevent these situations from happening in the future? (Choose two.)

- A. auto-recovery
- B. system priority
- C. delay restore
- D. ip arp synchronize
- E. peer-gateway

Answer: ([SHOW ANSWER](#))

System priority is related to LACP, not vPC, so it is out. ARP s

<https://www.cisco.com/c/en/us/support/docs/switches/nexus-7000-series-switches/116187-configure-vpc-00.html>

<https://www.cisco.com/c/en/us/support/docs/ios-nx-os-software/nx-os-software/212589-understanding-vpc-election-process.html>

**Why do we need vPC Auto-Recovery?**

There are two main reasons for this vPC enhancement:

- In a data center outage or power outage, both vPC peers that are comprised of Nexus 7000 switches are off. Occasionally, only one of the peers can be restored. Since the other Nexus 7000 is still off, the vPC peer-link and the vPC peer-keepalive link are also off. In this scenario, the vPC does not come on even for the Nexus 7000 which is already on. All vPC configurations have to be removed from the port-channel on that Nexus 7000 to cause the port-channel to work. When the other Nexus 7000 comes on, you have to again make configuration changes to include the vPC configuration for all the vPCs. In Release 5.0(2) and later, you can configure the **reload restore** command under the vPC domain configuration to address this problem.
- For some reason, the vPC peer-link goes off. Since the vPC peer-keepalive is still on, the vPC secondary peer device turns all its vPC member ports off due to dual-active detection. Hence all the traffic goes through the vPC primary switch. For some reason, the vPC primary switch also goes off. **This switch problem black holes the traffic since the vPCs on the secondary peer device are still off because it detected dual-active detection before the vPC primary switch went off.**

In Release 5.2(1) and later, the vPC auto-recovery feature merges these two enhancements.

---

**vPC Delay Restore**

After a vPC peer device reloads and comes back up, the routing protocol needs time to reconverge. **The recovering vPCs leg may black-hole routed traffic from access to aggregation/core until uplink Layer 3 connectivity is reestablished.**

vPC Delay Restore feature delays vPCs leg bring-up on the recovering vPC peer device. vPC Delay Restore allows for Layer 3 routing protocols to converge before allowing any traffic on vPC leg. This results in a more graceful restoration and zero packet loss during the recovery phase (traffic still get diverted on the alive vPC peer device). This feature is enabled by default with a vPC restoration default timer of 30 seconds. The timer can be tuned according to a specific Layer 3 convergence baseline from 1 to 3600 seconds.

#### NEW QUESTION: 46

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.
- 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**

- Uses STP if UDLD information times out.
- Allows a port that has a high error rate.

**Aggressive Mode**

- Detects when a port is stuck.
- Disables a port that has a high error rate.

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**NEW QUESTION: 47**

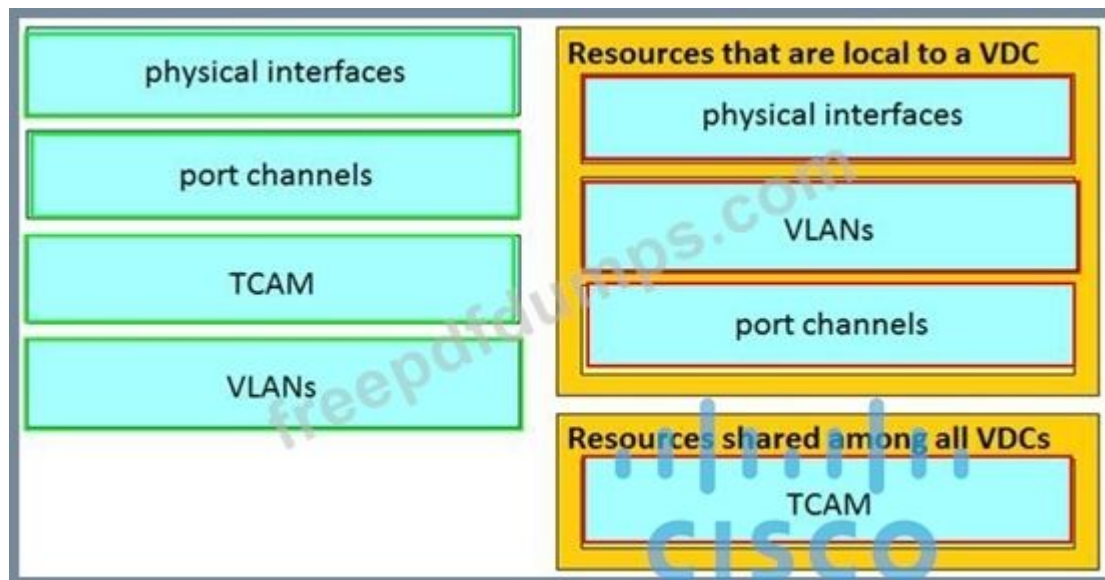
Drag and drop the Cisco Nexus 7000 Series Switch resources from the left onto the correct groups on the right.

- physical interfaces
- port channels
- TCAM
- VLANs

**Resources that are local to a VDC**

**Resources shared among all VDCs**

**Answer:**



#### NEW QUESTION: 48

An engineer must design a solution based on Cisco Nexus 7709 Switches. The solution must connect test and development network segments and separate the enterprise applications from the production network. The network security team requires routing instances and the IP stack to be completely separated from each other and for traffic between the environments to undergo a deep packet inspection. The development team also requests the ability to allocate additional physical interfaces from the Cisco Nexus 7709 device in each environment. Which solution meets these requirements?

- A. 1) Assign a separate VDC for the testing and development environments.  
2) Place a firewall between the VDCs.
- B. 1) Create a separate VRF for the testing and development environments.  
2) Control reachability by using firewall access policies.
- C. 1) Enable new routing instances for the testing and development environments in the same VDC.  
2) Control reachability by using firewall access policies.
- D. 1) Create a VRF for the testing and development environments.  
2) Use ACLs to control traffic between the two environments.

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 49

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

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

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 50

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

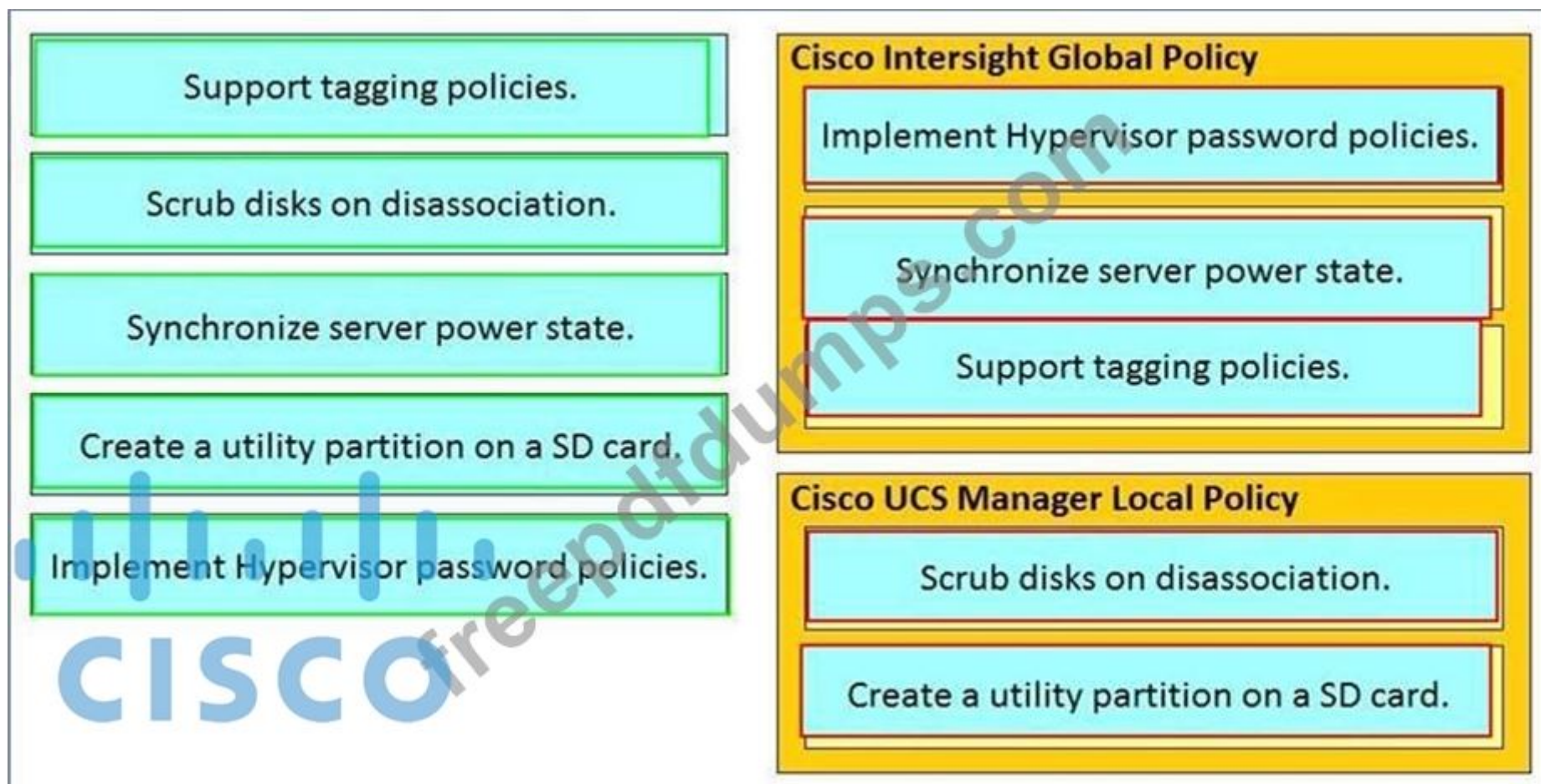
Answer: D,E ([LEAVE A REPLY](#))

**NEW QUESTION: 51**

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

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

Answer:



**NEW QUESTION: 52**

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

- A. Virtual Port Channel
- B. Enhanced Virtual Port Channel

**Answer: (SHOW ANSWER)**

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

**NEW QUESTION: 53**

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

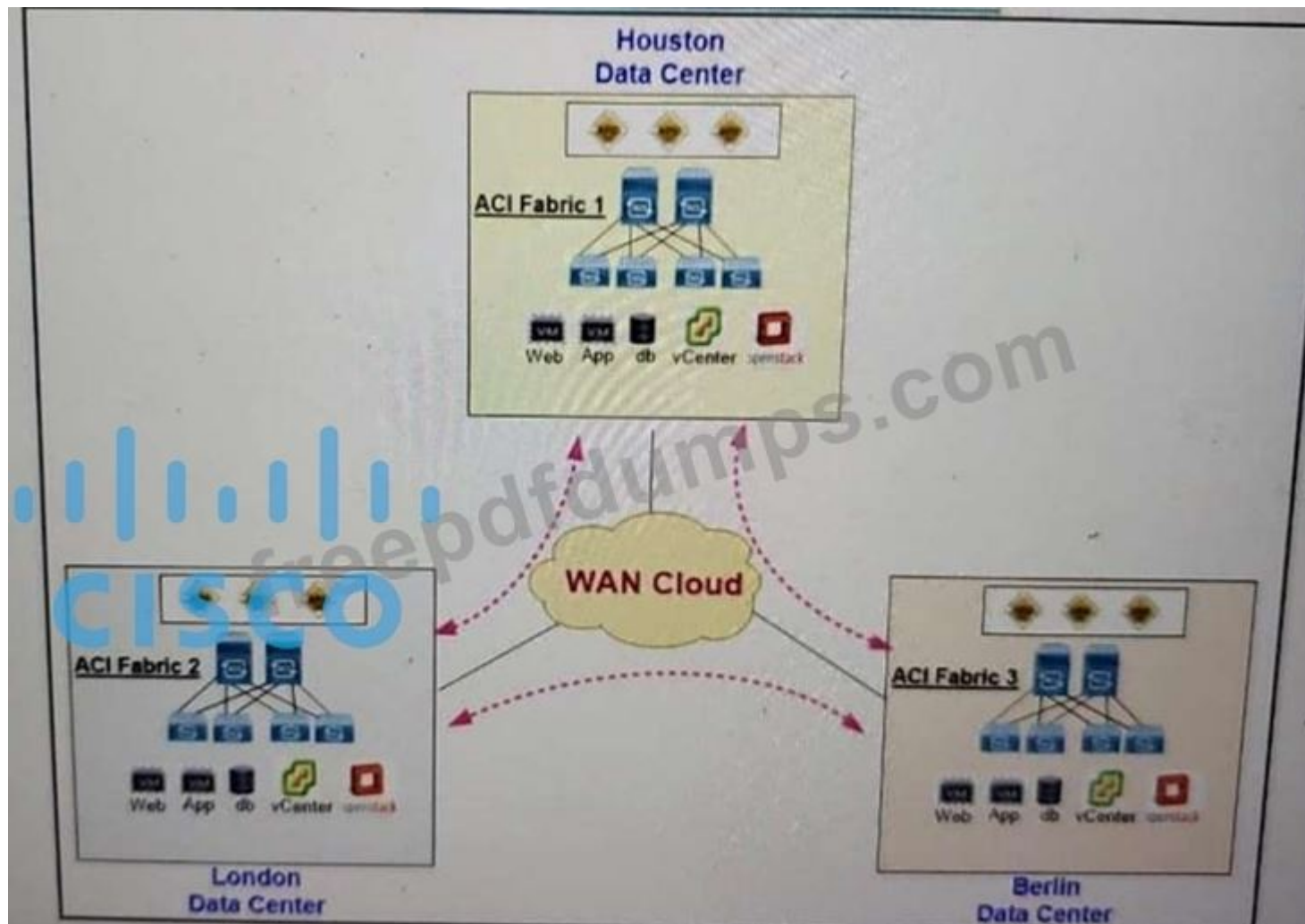
cut-through switching	connects a classical Ethernet vPC domain and a Cisco FabricPath cloud to interoperate
OTV	extends Layer 2 domains across distributed data centers
store-and-forward switching	performs Layer 2 lookup as soon as the destination MAC is received
VPC	two separate control planes, performs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

Answer:

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

**NEW QUESTION: 54**

Refer to the exhibit.



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

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

**Answer: A (LEAVE A REPLY)**

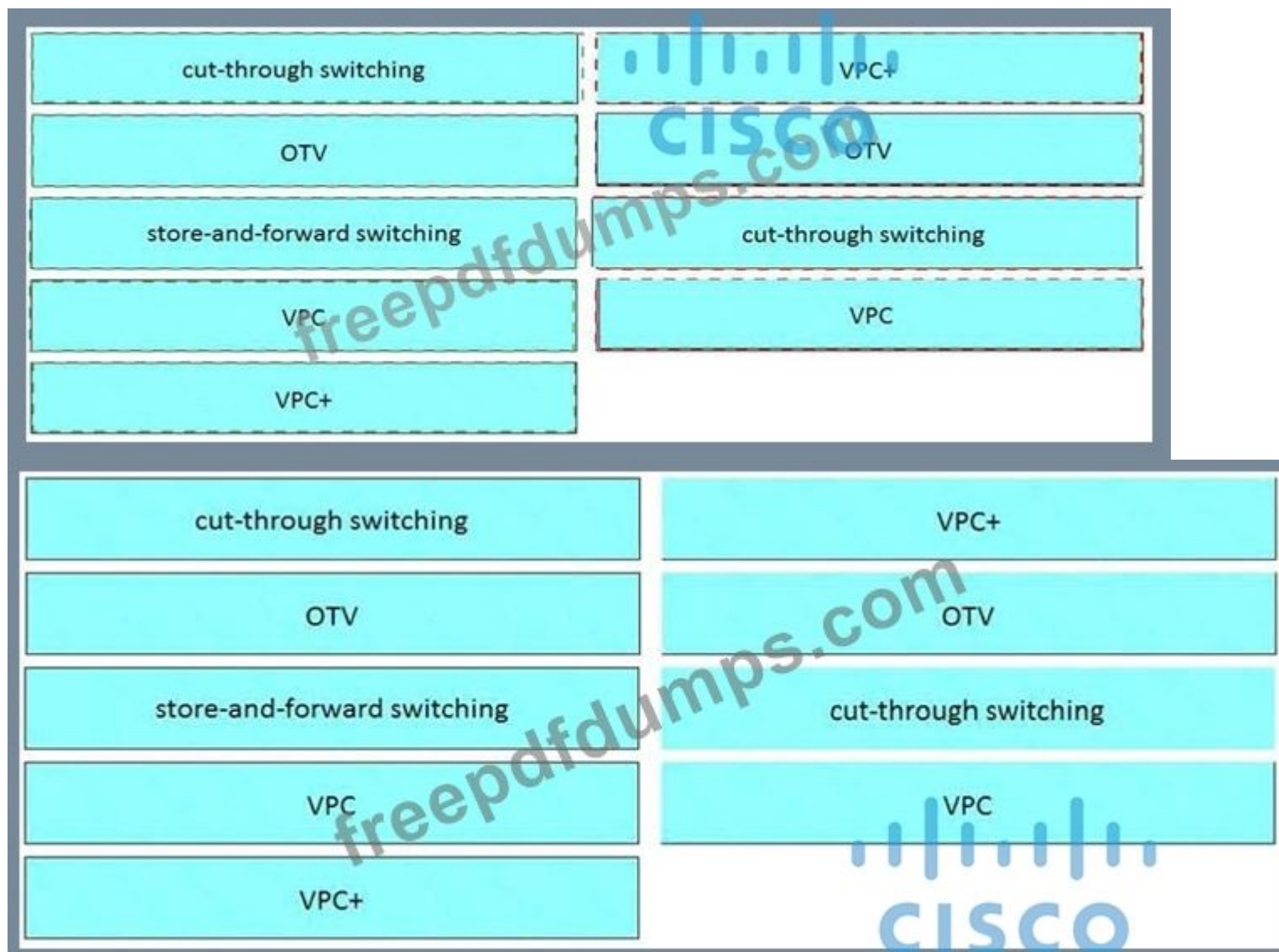
Each data center has its own APIC cluster. This is multi-site setup.

#### NEW QUESTION: 55

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: 56**

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

- A. Cisco Nexus Fabric Manager
- B. Cisco Intersight

- C. Cisco Data Center Network Manager
- D. Cisco UCS Manager

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

**NEW QUESTION: 57**

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

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

**NEW QUESTION: 58**

A cloud provider deploys an infrastructure based on Cisco ACI Fabric, Cisco UCS, and Cisco HyperFlex Data Platform. The storage area network will be based on Cisco MDS 9000 Series Switches with Hyper-V, VMware, and KVM used as the virtualization platform. The requirement is to deploy the overall solution by using a robust automation and orchestration tool.

Which tool meets these requirements?

- A. Cisco Cloud Center
- B. Cisco UCS Director
- C. Cisco Prime Infrastructure
- D. Cisco Network Assurance

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

**NEW QUESTION: 59**

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

Set the number of queues.

Set the RSS hash value.

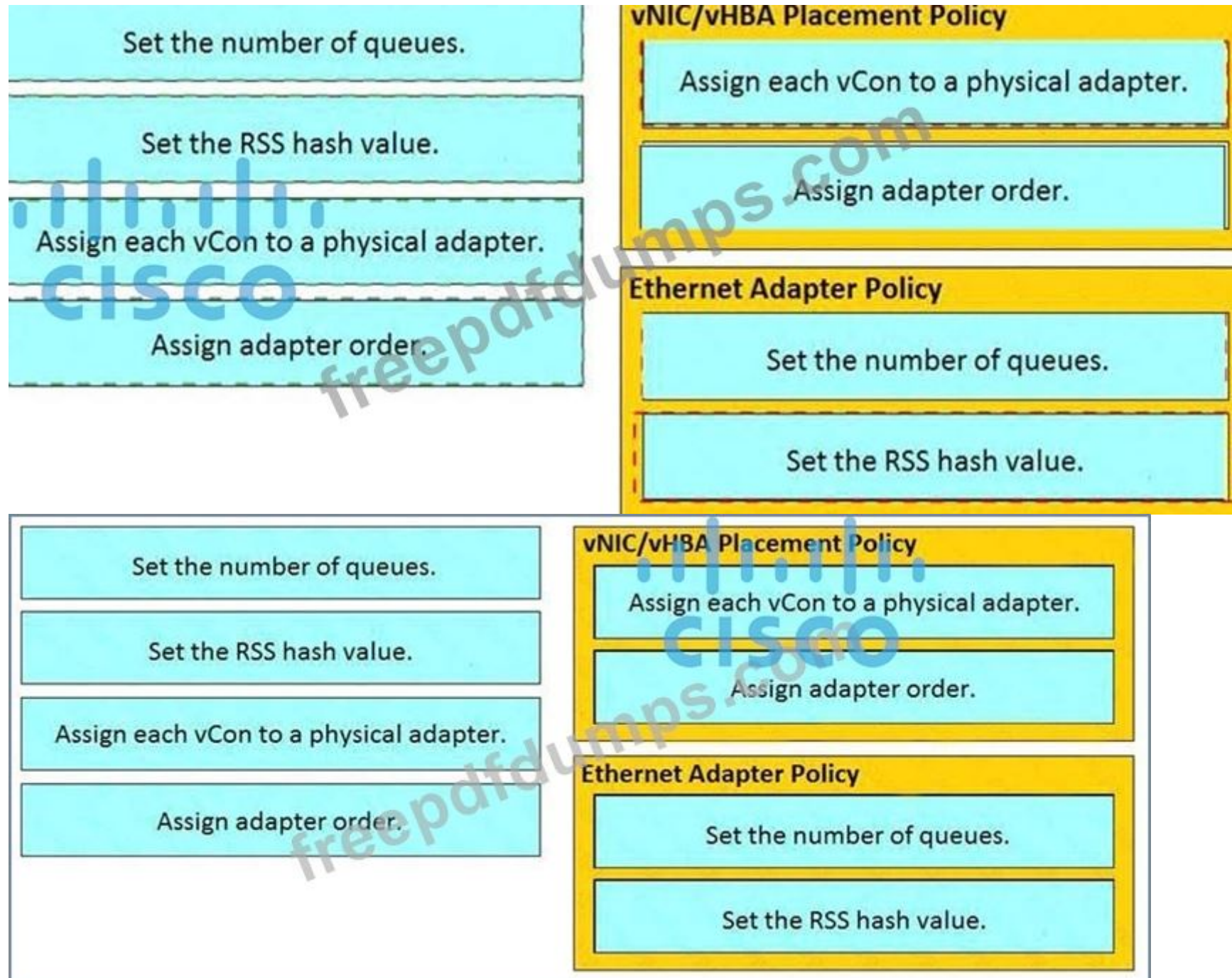
Assign each vCon to a physical adapter.

Assign adapter order.

vNIC/vHBA Placement Policy

Ethernet Adapter Policy

Answer:



**NEW QUESTION: 60**

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

NEW QUESTION: 61

Refer to the exhibit.

## Create vHBA Template

Name :

Description :

Fabric ID :  A  B

---

Redundancy

Redundancy Type :  No Redundancy  Primary Template  Secondary Template

Select VSAN :

Template Type :  Initial Template  Updating Template


Max Data Field Size :

WWPN Pool :

QoS Policy :

Pin Group :

Stats Threshold Policy :



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

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

Answer: ([SHOW ANSWER](#))

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### NEW QUESTION: 62

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

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

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

### NEW QUESTION: 63

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)**

Reference:

## 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: 64

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

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

#### NEW QUESTION: 65

A network architect designs the iSCSI-based storage area network solution. The iSCSI datastore must be designed with high availability, minimal downtime, and no single point of failure. The requirement is to fail over I/O to alternate paths based on SCSI sense codes without reliance on network failures.

Which feature must be deployed to meet these requirements?

- A. NIC teaming
- B. iSCSI multipath
- C. port security
- D. hardware-based flow control

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

**NEW QUESTION: 66**

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

**NEW QUESTION: 67**

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

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

Answer: B (LEAVE A REPLY)

**NEW QUESTION: 68**

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

Set the number of queues.

Set the RSS hash value.

Assign each vCon to a physical adapter.

Assign adapter order.

**vNIC/vHBA Placement Policy**

**Ethernet Adapter Policy**

**Answer:**

Set the number of queues.

Set the RSS hash value.

Assign each vCon to a physical adapter.

Assign adapter order.

**vNIC/vHBA Placement Policy**

Assign each vCon to a physical adapter.

Assign adapter order.

**Ethernet Adapter Policy**

Set the number of queues.

Set the RSS hash value.

**NEW QUESTION: 69**

An engineer must use OTV for layer 2 connectivity between data centers to support virtual machine between the customer sites. To support this requirement, the engineer must ensure the existence of the same default gateway on both sites. Additionally, the operations team report

high bandwidth utilization on site A and wants to optimize the outbound traffic flows to use a DC exit point. Which feature must be used to meet these requirement?

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

Answer: ([SHOW ANSWER](#))

Reference:

It is critical that you enable the filtering of FHRP messages across the overlay because it allows the use of the same FHRP configuration in different sites. The end result is that the same default gateway is available, and it is characterized by the same virtual IP and virtual MAC addresses in each data center. Thus the outbound traffic will be able to follow the optimal and shortest path, always using the local default gateway.

The appendix has a sample configuration that can be copied into your Nexus 7000 Series in order to utilize this feature.

#### NEW QUESTION: 70

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: 71

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

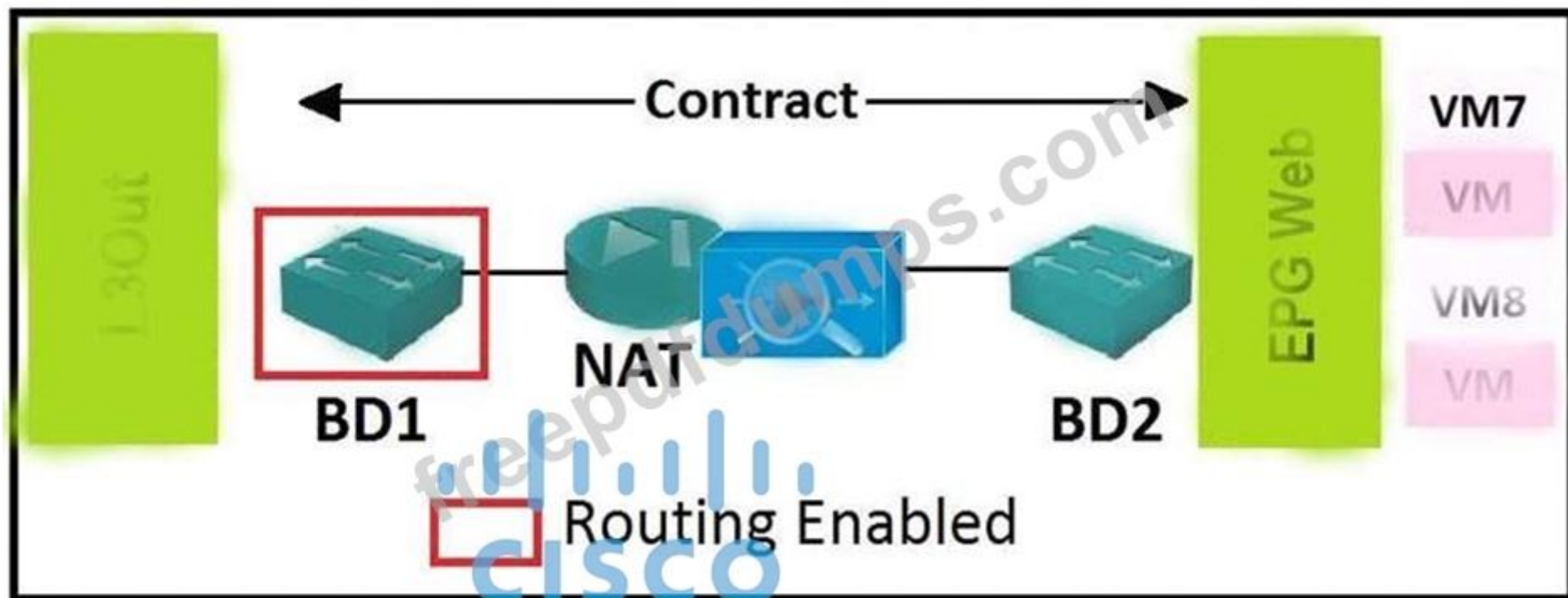
Support tagging policies.	<b>Cisco Intersight Global Policy</b>   
Scrub disks on disassociation.	
Synchronize server power state.	
Create a utility partition on a SD card.	<b>Cisco UCS Manager Local Policy</b>  
Implement Hypervisor password policies.	

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.	<b>Cisco UCS Manager Local Policy</b> Scrub disks on disassociation. Create a utility partition on a SD card.
Implement Hypervisor password policies.	

**NEW QUESTION: 72**

Refer to the exhibit.



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

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

**Answer: A (LEAVE A REPLY)**

#### NEW QUESTION: 73

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

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

**Answer: C (LEAVE A REPLY)**

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

#### NEW QUESTION: 74

A data center uses Cisco Nexus 7000 Series Switch and contains two tenants, tenant A and tenant B.

\* Tenant A uses IP addresses in the 10.2.30.41/24 to 10.2.30.64/24 range.

\* Tenant B uses IP addresses in the 10.2.30.120/24 to 10.2.30.192/24 range.

The engineer must implement a solution that

\* Isolates the traffic for each tenant as separate routing data and control planes.

\* Physically partitions the Cisco Nexus device into separate multiple logical devices with separate management, failure domain isolation, and resource management.

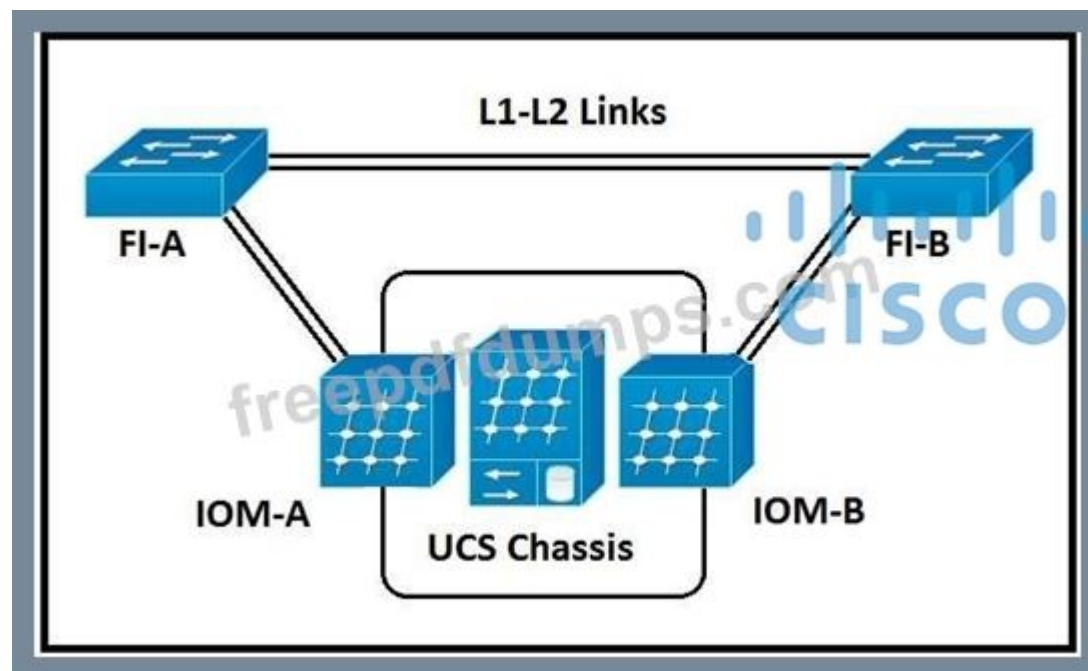
Which two technologies meet these requirements? (Choose two.)

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

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

#### NEW QUESTION: 75

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 two separate fabric port channels.
- B. Cisco UCS Manager creates a single fabric port channel.
- 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: ([SHOW ANSWER](#))

Section: Compute Design

#### NEW QUESTION: 76

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

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

Answer: B (LEAVE A REPLY)

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

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

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**NEW QUESTION: 77**

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.

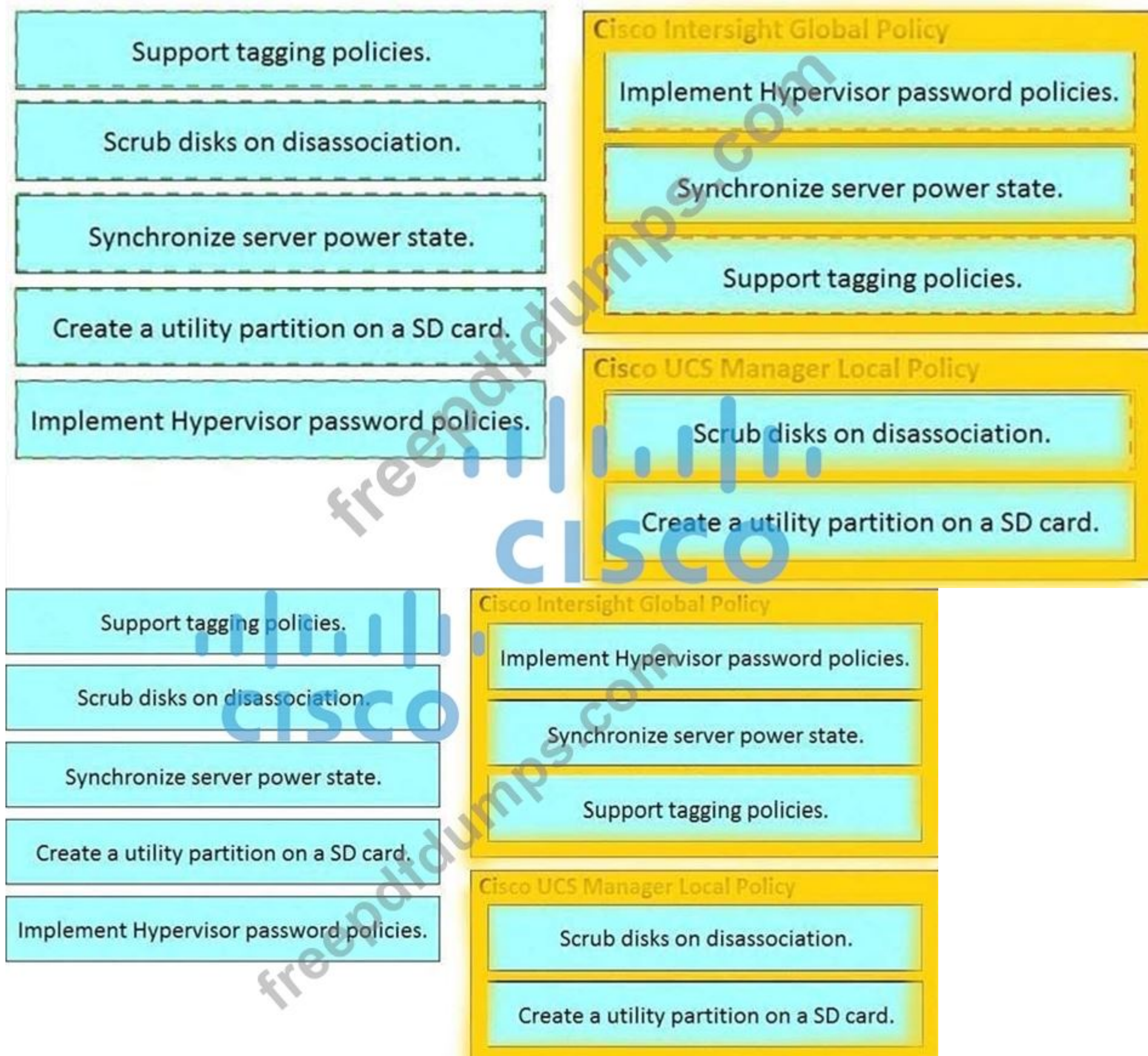
Create a utility partition on a SD card.

Implement Hypervisor password policies.

Cisco Intersight Global Policy

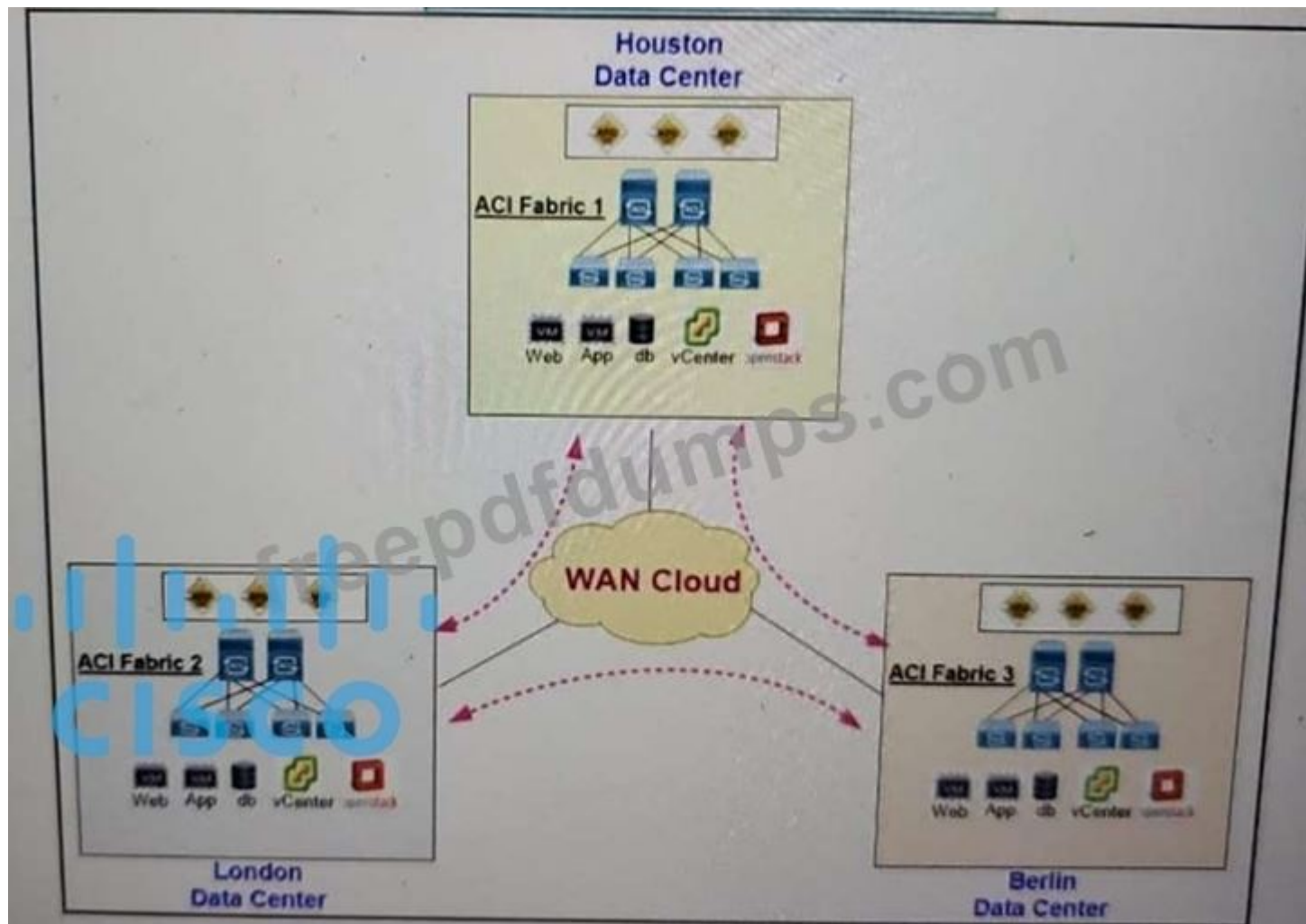
Cisco UCS Manager Local Policy

Answer:



**NEW QUESTION: 78**

Refer to the exhibit.



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

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

**Answer: A (LEAVE A REPLY)**

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

#### NEW QUESTION: 79

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.

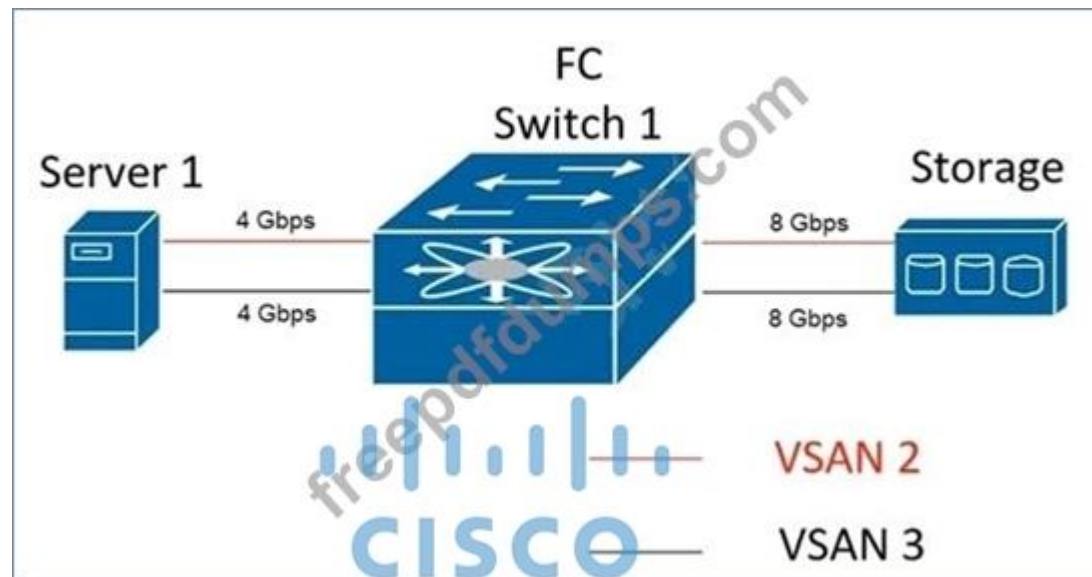
The interfaces are bound to a separate pin group to segregate traffic with a CoS value of 0 Which Cisco UCS Manager feature meets these requirements?

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

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

**NEW QUESTION: 80**

Refer to the exhibit.



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

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

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

Which action must be taken to meet these requirements?

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 81**

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

The diagram shows four requirements on the left and two policy types on the right. The requirements are: 'Set the number of queues.', 'Set the RSS hash value.', 'Assign each vCon to a physical adapter.', and 'Assign adapter order.'. The 'vNIC/vHBA Placement Policy' has two empty slots, and the 'Ethernet Adapter Policy' has two empty slots.

Answer:

The diagram shows the requirements on the left and the policy types on the right with the requirements mapped to the correct slots. The 'vNIC/vHBA Placement Policy' contains 'Assign each vCon to a physical adapter.' and 'Assign adapter order.'. The 'Ethernet Adapter Policy' contains 'Set the number of queues.' and 'Set the RSS hash value.'.

**NEW QUESTION: 82**

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.
- 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: 83**

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

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

#### NEW QUESTION: 84

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: ([SHOW ANSWER](#))

#### NEW QUESTION: 85

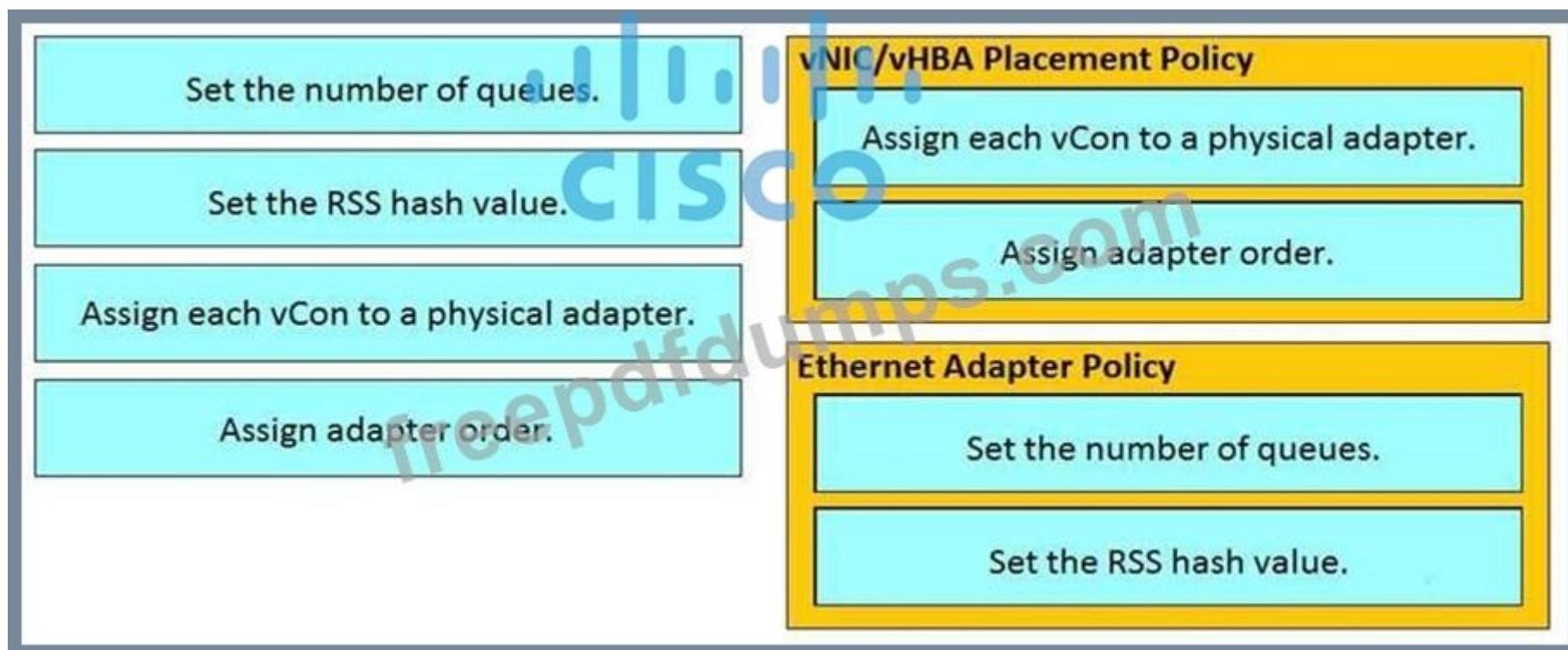
DRAG DROP

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

Select and Place:

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

Answer:



Section: Compute Design

Explanation/Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/sw/gui/config/guide/2-2/](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/configuring\\_network\\_related\\_policies.html#task\\_7F03A03C719A4A44B8ACFAD73AADC73C](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/configuring_network_related_policies.html#task_7F03A03C719A4A44B8ACFAD73AADC73C)

### NEW QUESTION: 86

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 87**

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

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

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

Section: Storage Network Design

Explanation

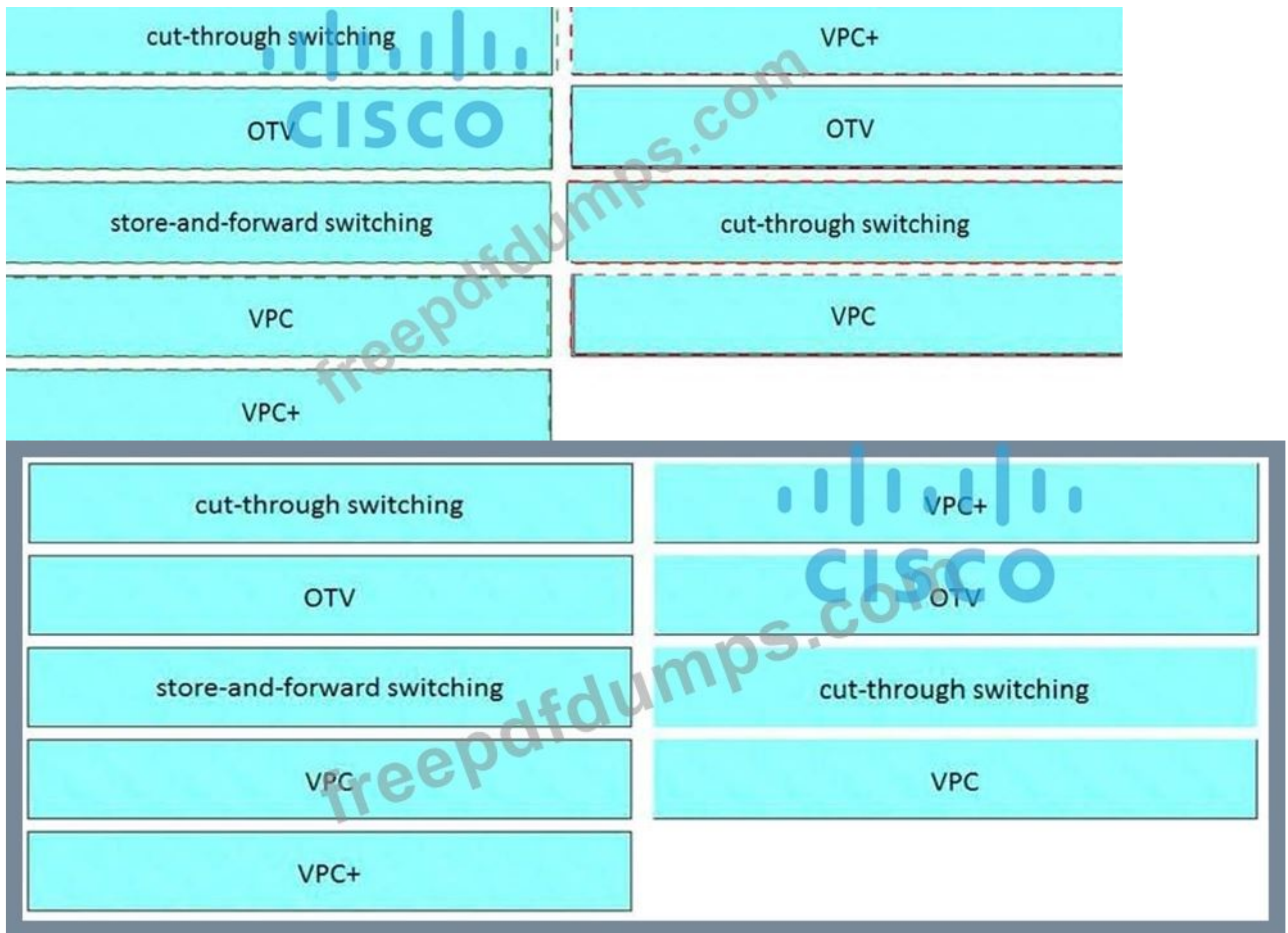
Explanation/Reference: <https://www.cisco.com/c/en/us/support/docs/servers-unified-computing/ucs-manager/116188-configure-fcoe-00.html#anc11>

**NEW QUESTION: 88**

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: 89**

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

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

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

- A. Bash scripts
- B. domain-based policies
- C. YAML

- D. REST calls
- E. Python scripts

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 90**

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

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

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

**NEW QUESTION: 91**

A customer wants to deploy a Layer 2 extension over a transport infrastructure for multiple data centers. The data center technology should support a localized Layer 3 gateway, a separate flooding domain, and STP isolation per data center. Which DCI technology meets these requirements?

- A. VXLAN EVPN
- B. E-Line
- C. E-LAN
- D. Pseudowire

Answer: ([SHOW ANSWER](#))

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**NEW QUESTION: 92**

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: 93**

An engineer must logically partition two Cisco Nexus 7000 Series Switches into two environments called Test\_39919596 and Production\_59423879. The environments must use only F2-Series line cards and be limited to a maximum of 265 port-channels. Which Cisco Nexus feature must be used?

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

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

#### NEW QUESTION: 94

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



**NEW QUESTION: 95**

An engineer is designing a Cisco 7000 Series disaster recovery site using the data center interconnect solution to provide gateway redundancy and needs to ensure that devices use gateways in their own data centers. Which design approach should be used to accomplish this goal?

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

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

**NEW QUESTION: 96**

An engineer is installing a Cisco Nexus 7000 Series Switch with F2-Series I/O Module. The company's strict security policy requires that the port be in-band. The engineer must also keep these considerations in mind:

The customer's security requirements mandate the use of a secure management mechanism that supports authentication and encryption.

The port should support management over IP.

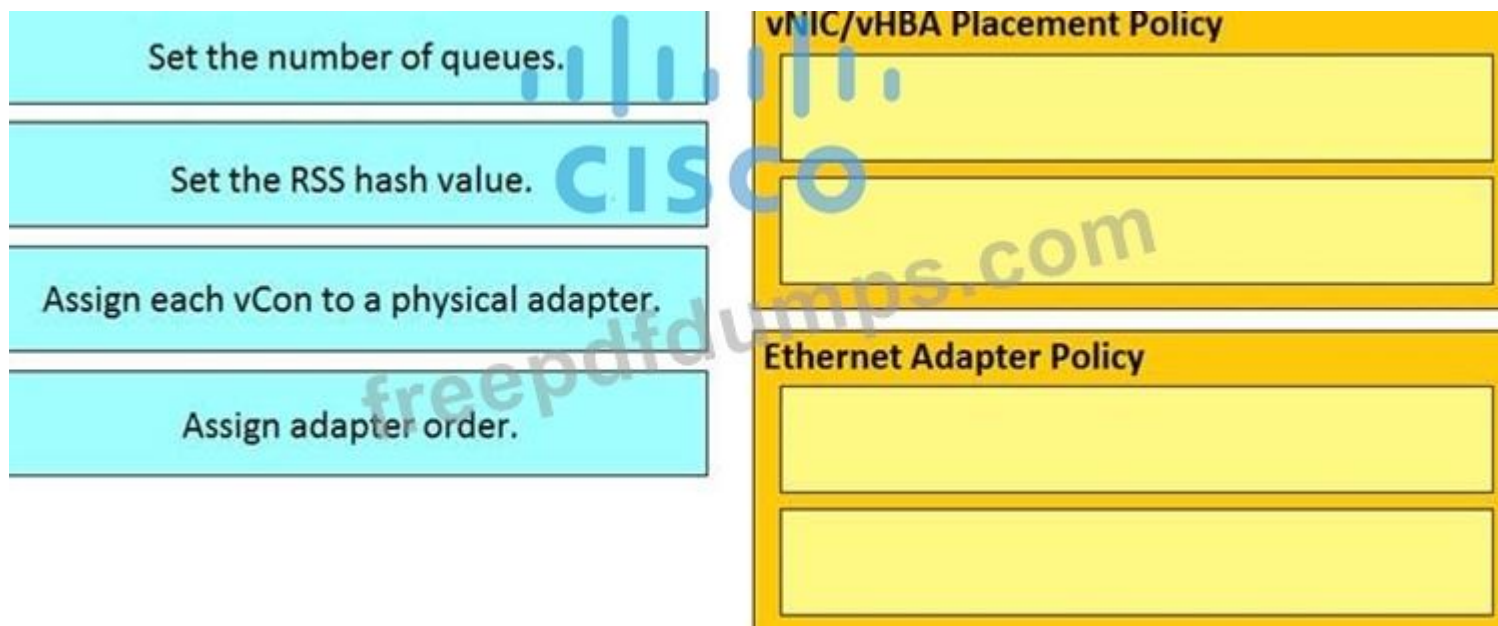
Which port type must be used to meet these requirements?

- A. connectivity management port
- B. console port
- C. Ethernet port
- D. management port

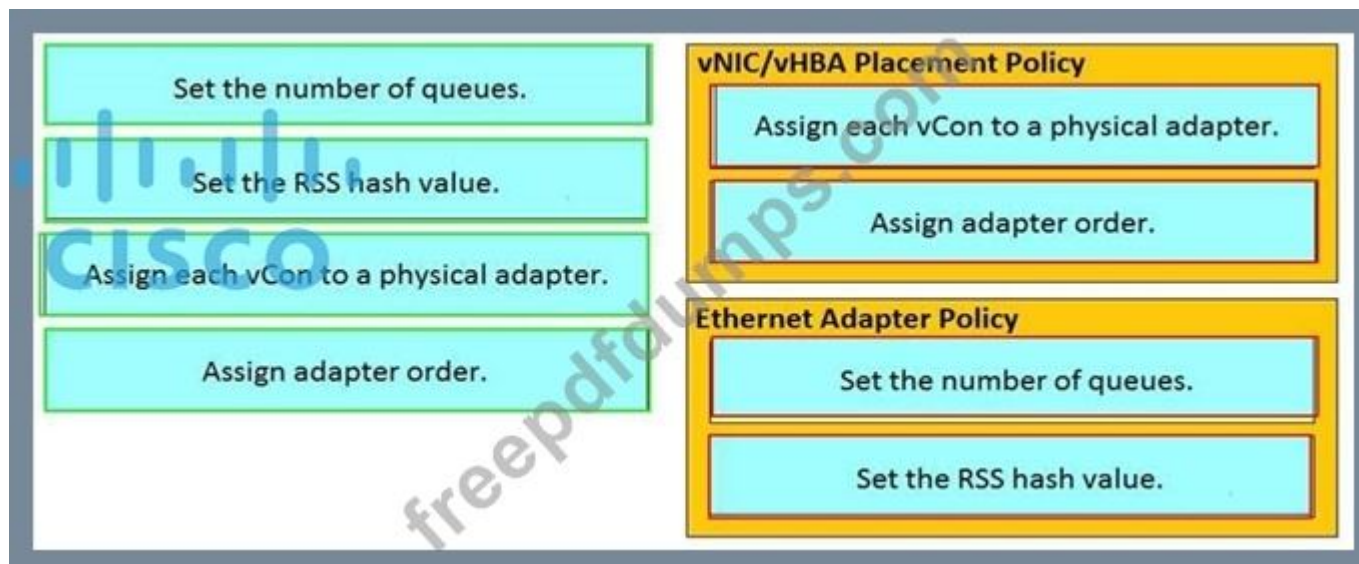
**Answer: B** ([LEAVE A REPLY](#))

**NEW QUESTION: 97**

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



**Answer:**



**NEW QUESTION: 98**

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

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

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

- A. UCSB B200
- B. Fabric Interconnect 6300
- C. Gigabit Ethernet Switch
- D. HX220C
- E. HX240C

**Answer: (SHOW ANSWER)**

**NEW QUESTION: 99**

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

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

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

**NEW QUESTION: 100**

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

- A. HSRP
- B. VSS
- C. vPC
- D. 802.1q
- E. FEX

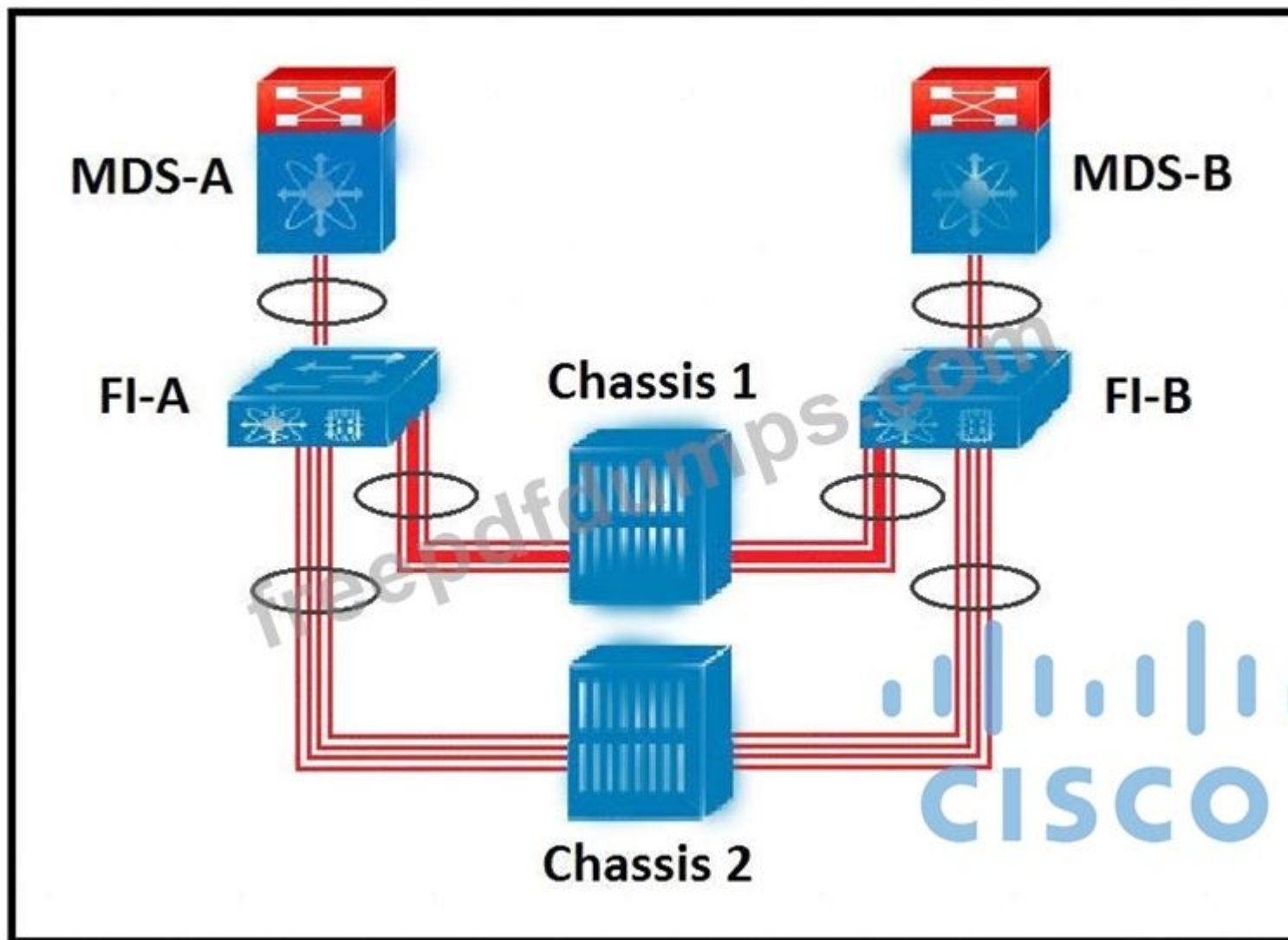
**Answer: B,C** ([LEAVE A REPLY](#))

Section: Compute Design

Explanation/Reference: [https://www.cisco.com/c/dam/en/us/products/collateral/switches/nexus-7000-series-switches/C07-572835-00\\_NX-OS\\_vPC\\_DG.pdf](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: 101**

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

**Answer: A,C (LEAVE A REPLY)**

**NEW QUESTION: 102**

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+	

#### NEW QUESTION: 103

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. management interface
- D. physical interface

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

**NEW QUESTION: 104**

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

Answer: ([SHOW ANSWER](#))

**NEW QUESTION: 105**

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

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

**NEW QUESTION: 106**

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

- Place all interfaces that face the fabric interconnects in the same VSAN.  
• Disable zoning for the VSAN.
- Connect the fabric interconnect to the E Ports on the SAN switch.  
• Create a SAN port channel.
- Enable Fibre Channel end-host mode on the fabric interconnect and NPIV mode on the SAN switch.  
• Create an F Port channel that faces the fabric interconnect.
- Configure Ethernet end-host automatic load balancing on the fabric interconnect.  
• Set NL port mode on the SAN switch.

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

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

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**NEW QUESTION: 107**

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

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

**Answer: A (LEAVE A REPLY)**

[https://www.cisco.com/en/US/docs/unified\\_computing/ucs/sw/gui/config/guide/141/UCSM\\_GUI\\_Configuration\\_Guide\\_141\\_chapter19.html](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: 108**

A Cisco engineer is configuring MPLS VPN BGP at a customer site that is connected to the provider site by more than one path MPLS VPN BGP Local Convergence link protection is enabled. After the engineer installs the main forwarding path and the redundant backup path within the BGP, they assign a unique route distinguisher to each VRF table on all PE devices that serve as a backup to the link. What is a prerequisite for this local convergence to work?

- A. The system is performing a PE-CE link protection on both ends
- B. BGP must support lossless switchover between operational paths
- C. IP/GRE is enabled.
- D. Interautonomous system option A (back-to-back VRF) is active.

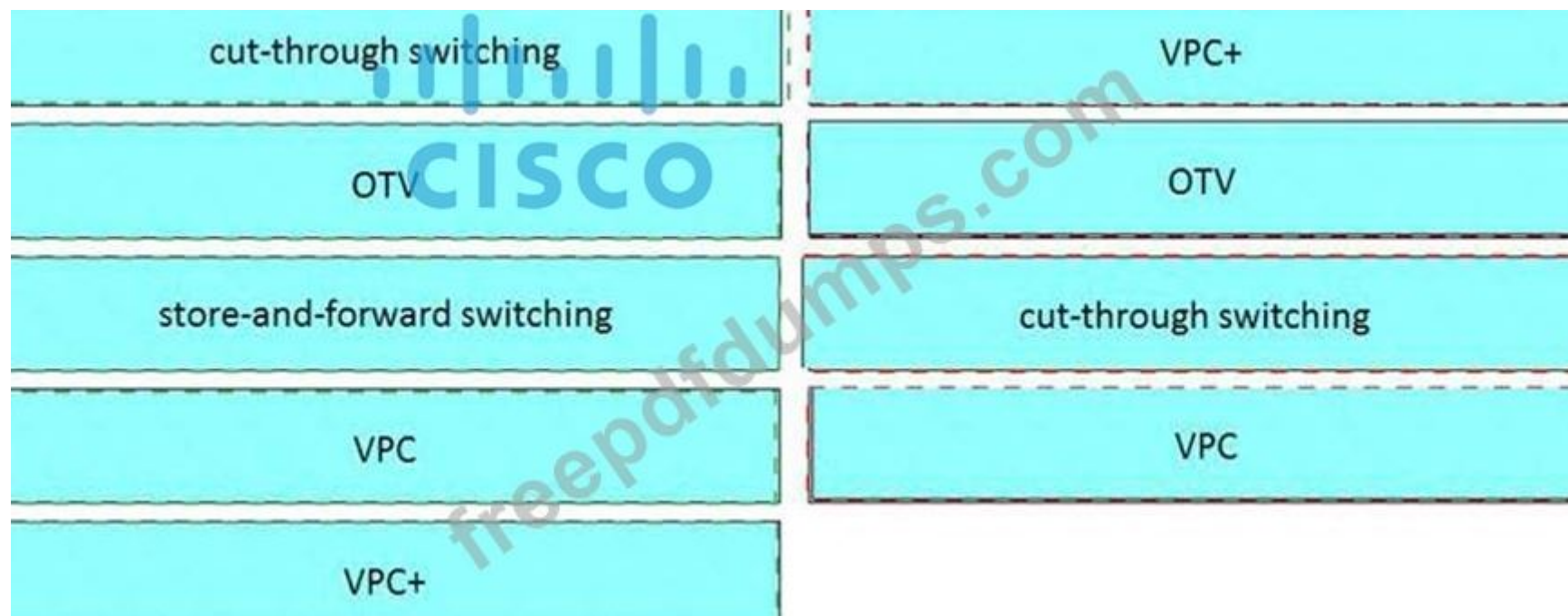
**Answer: A (LEAVE A REPLY)**

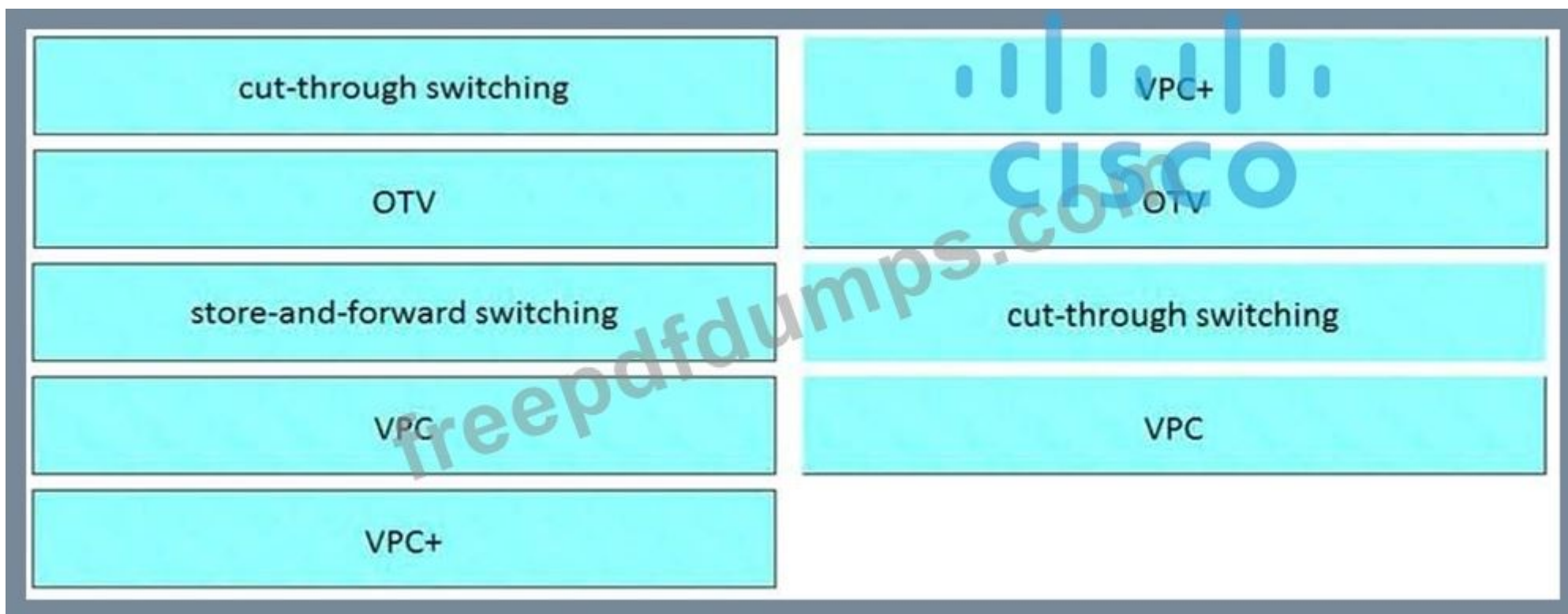
**NEW QUESTION: 109**

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+	

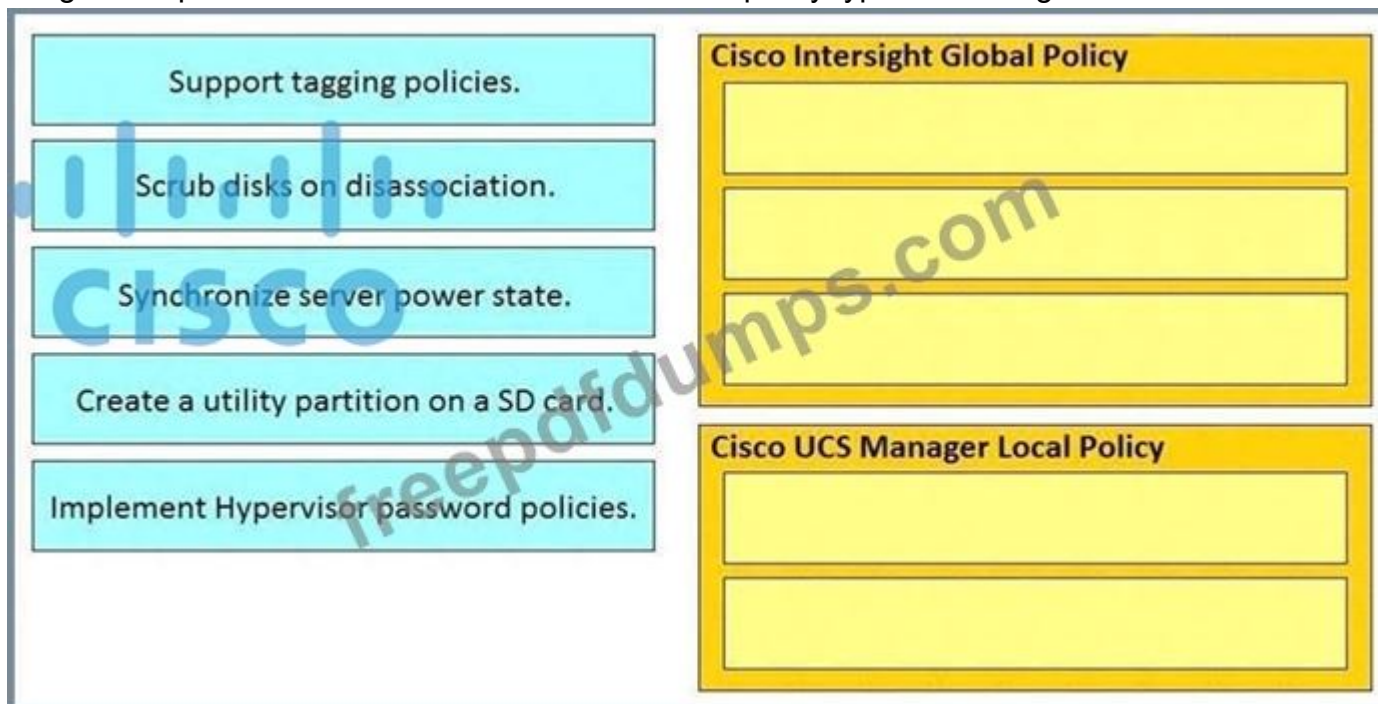
Answer:



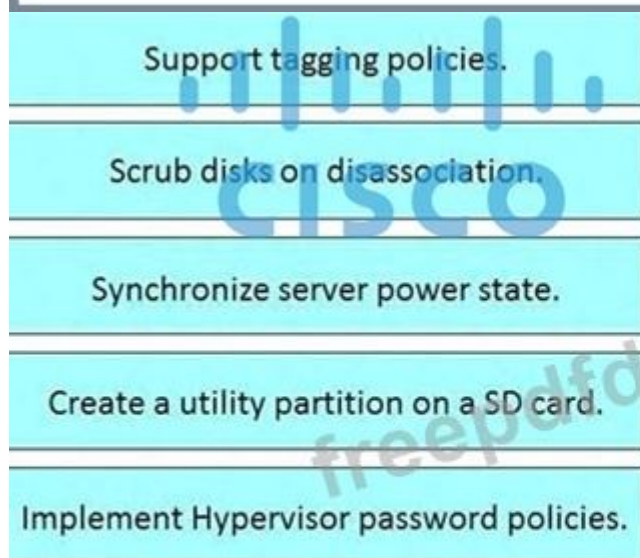
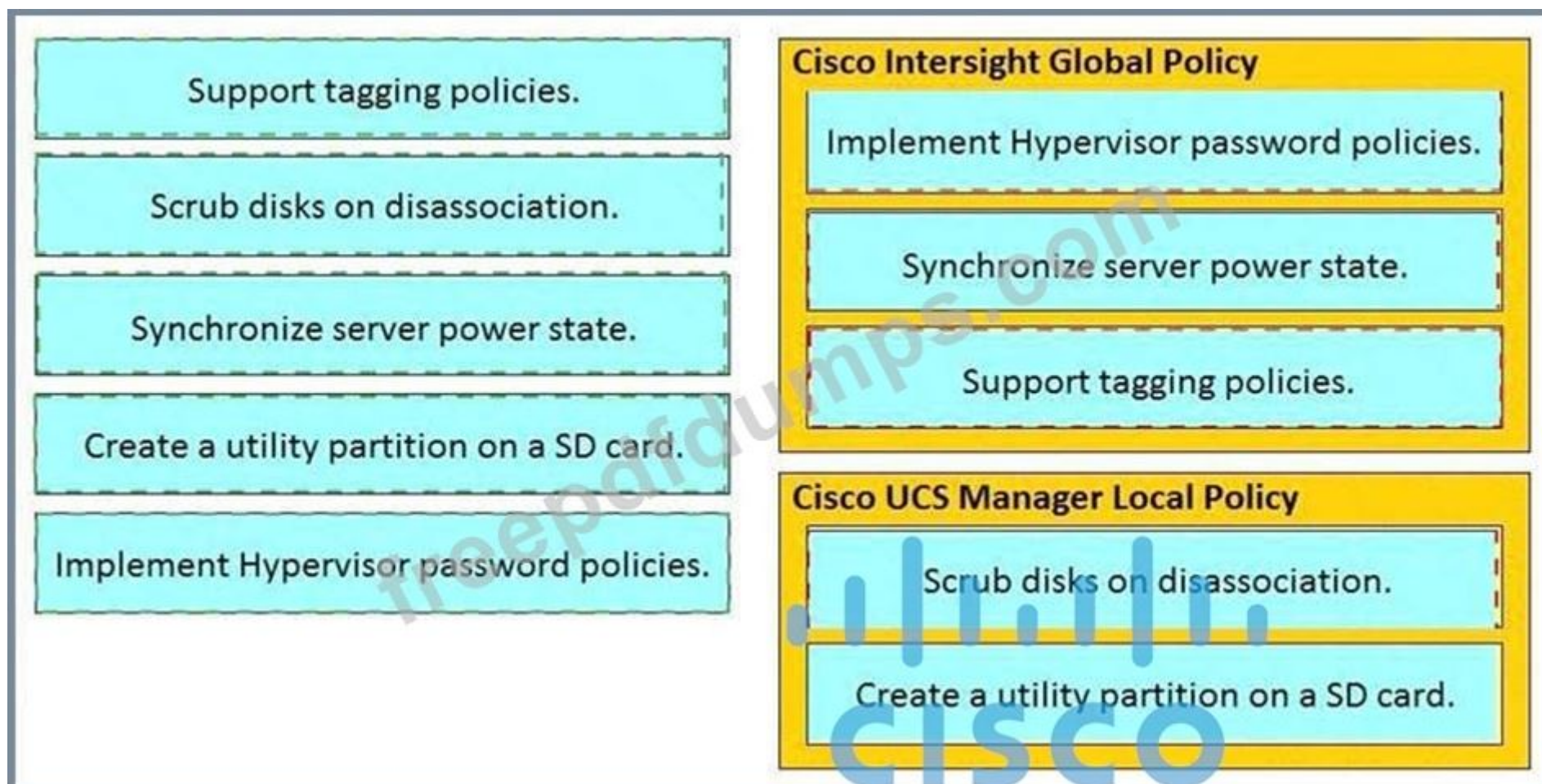


**NEW QUESTION: 110**

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



**Answer:**



**NEW QUESTION: 111**

A company has added a new FCoE storage array to increase the performance of datastore access for end users. This storage array is directly connected to the Cisco Nexus 5672UP switches using four 10G port-channel interfaces. After deployment, the end users fail to access the datastore compared to the older solution. A network engineer verified the port-channel interface and finds that the congestion occurs when PFC frames are generated at the FCoE ingress interface. Which action must be taken to resolve the congestion issue?

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

**Answer: D (LEAVE A REPLY)**

#### **NEW QUESTION: 112**

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

**Answer: C (LEAVE A REPLY)**

#### **NEW QUESTION: 113**

What is an advantage of Cisco HyperFlex Edge as compared to Cisco HyperFlex Standard Clusters?

- A. Cisco Intersight automatically creates an invisible cloud witness.
- B. Cisco UCS 5108 Blade Server chassis provides SEEPROM connectivity to solve split-brain scenarios.
- C. Cisco UCS Manager provides service profile portability across nodes.
- D. Cisco HyperFlex Edge provides native container support through the KVM hypervisor.

**Answer: A (LEAVE A REPLY)**

Section: Compute Design

Explanation/Reference: <https://www.cisco.com/c/dam/en/us/products/collateral/hyperconverged-infrastructure/hyperflex-hx-series/whitepaper-c11-741999.pdf>

#### **NEW QUESTION: 114**

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

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

**Answer: A (LEAVE A REPLY)**

[https://www.cisco.com/c/dam/en/us/products/collateral/switches/nexus-7000-series-switches/guide\\_c07-728315.pdf](https://www.cisco.com/c/dam/en/us/products/collateral/switches/nexus-7000-series-switches/guide_c07-728315.pdf)

It is critical that you enable the filtering of FHRP messages across the overlay because it allows the use of the same FHRP configuration in different sites. The end result is that the same default gateway is available, and it is characterized by the same virtual IP and virtual MAC addresses in each data center. Thus the outbound traffic will be able to follow the optimal and shortest path, always using the local default gateway.

The appendix has a sample configuration that can be copied into your Nexus 7000 Series in order to utilize this feature.

#### NEW QUESTION: 115

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

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

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

#### NEW QUESTION: 116

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

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

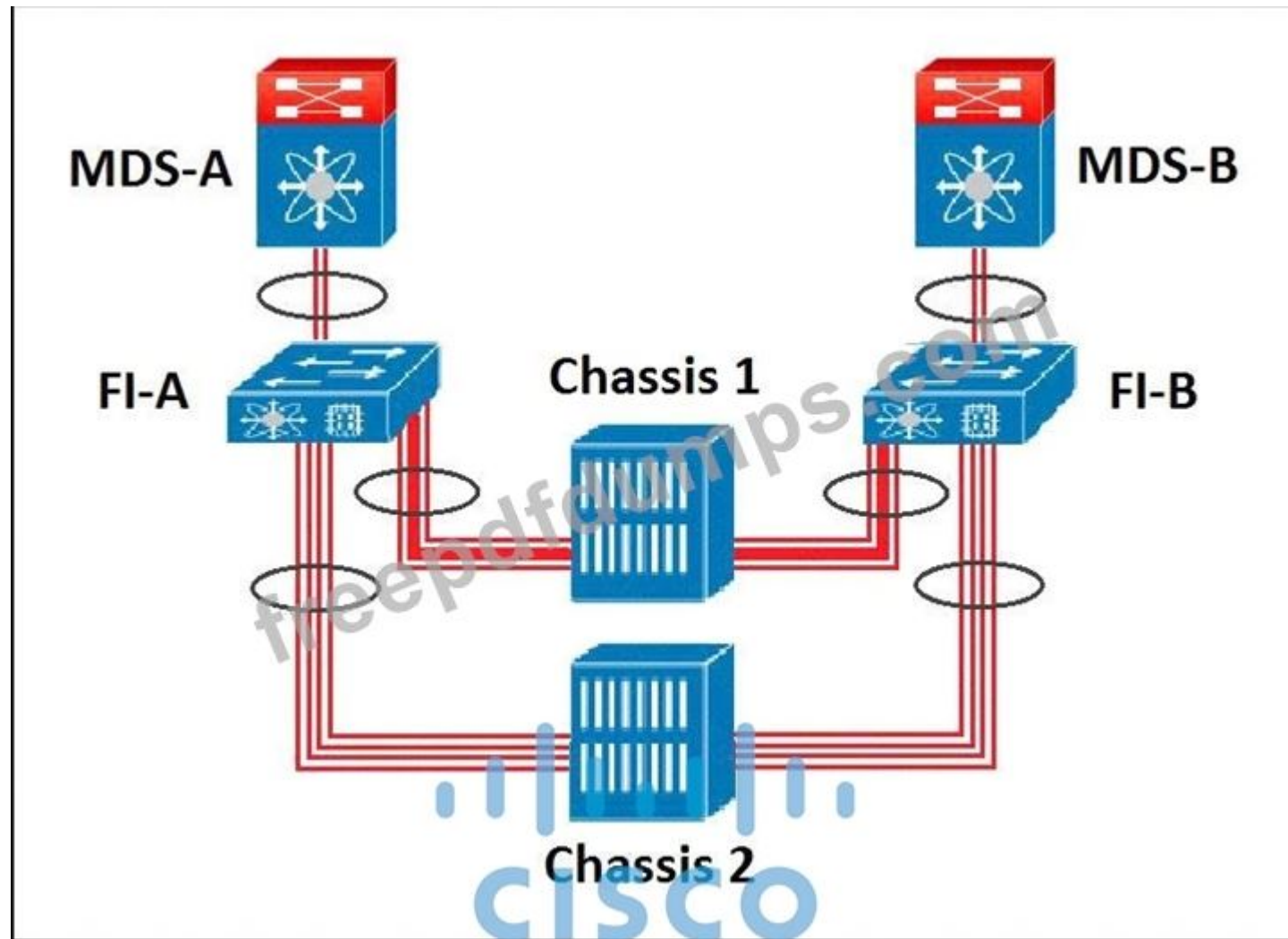
Answer: [B \(LEAVE A REPLY\)](#)

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.

**NEW QUESTION: 117**

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. SAN Pin Groups on the Cisco UCS Fabric Interconnects.
- 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: A,D (LEAVE A REPLY)**

**NEW QUESTION: 118**

An engineer must develop a Python tool to automate software upgrades of both data center and non-data center devices. All devices offer a RESTful API and require a JSON or XML payload. Vendor-specific libraries must be avoided. Which library must the engineer choose?

- A. requests
- B. Nornir
- C. ncclient
- D. Netmiko

**Answer: A (LEAVE A REPLY)**

**NEW QUESTION: 119**

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

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

**NEW QUESTION: 120**

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

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

**NEW QUESTION: 121**

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>

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**NEW QUESTION: 122**

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

**Answer: D (LEAVE A REPLY)**

#### NEW QUESTION: 123

A Cisco engineer is preparing a service profile template for a design, which consists of 20 x UCS B200M6 blade servers, 2 x UCS 6454 Fabric Interconnect in End Host Mode, and 3 x UCS 5108 server chassis with 2408 Fabric Extenders. The blade servers are equipped with VIC 1480 adapters. The engineer does not configure a vNIC/vHBA placement policy in the service profile and the vNICs and vHBAs are assigned to the vCon in a particular order. What is the mapping scheme in which Cisco UCS assigns the vCons based on the type of server and the selected virtual slot?

- A. round robin
- B. cross match
- C. linear ordered
- D. network mesh

**Answer: A (LEAVE A REPLY)**

#### NEW QUESTION: 124

A network engineer designs a Cisco Nexus data center network for a client-server farm using a pair of Nexus 9000 Series. Switches In a vPC setup. Each server connects with two interfaces to both Nexus switches. The Nexus switches must always initiate the negotiation with the server. Which feature should be used in this design to ensure traffic is forwarded from the server to the data center network?

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

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

#### **NEW QUESTION: 125**

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

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

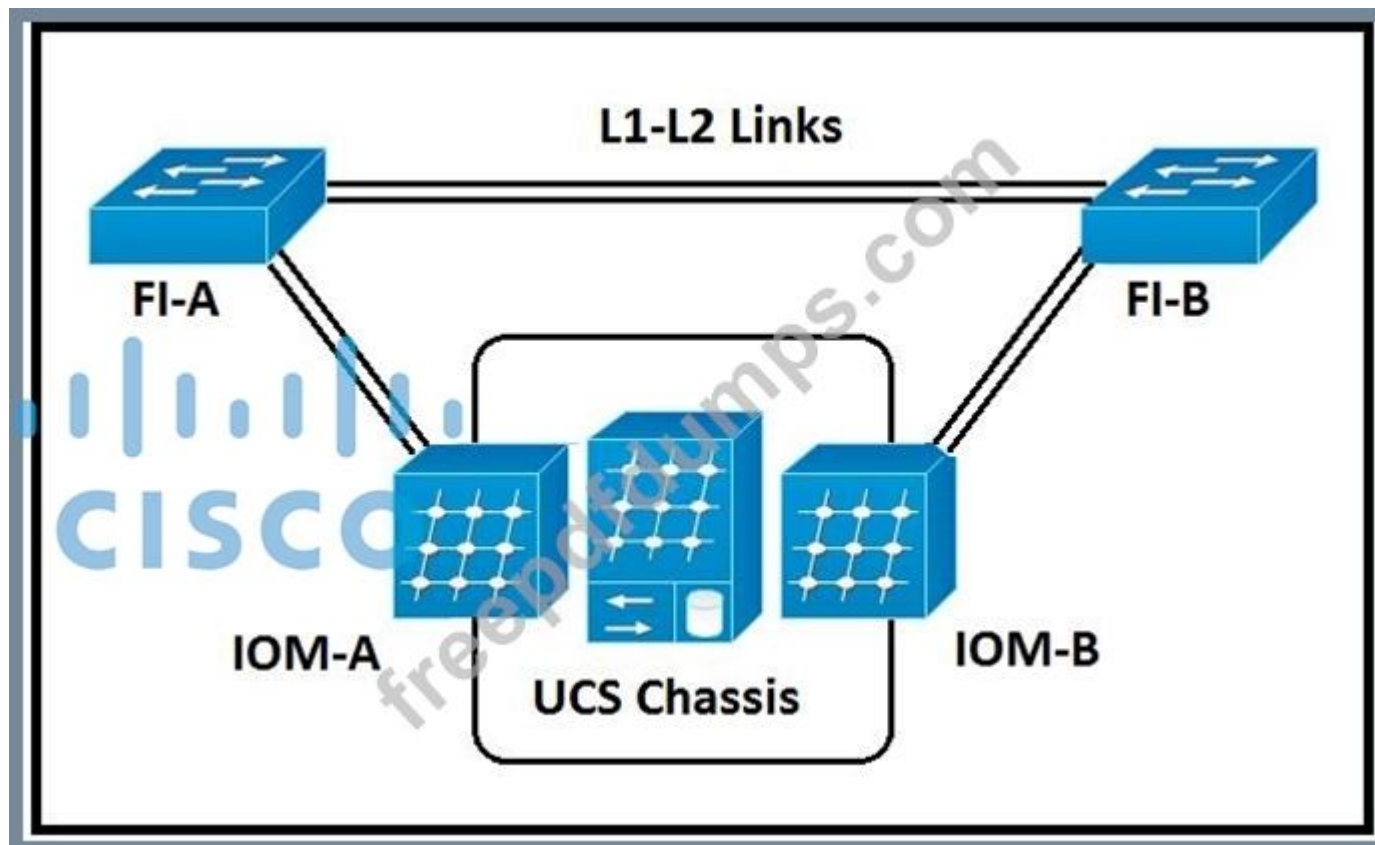
**Answer: B** ([LEAVE A REPLY](#))

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/sw/gui/config/guide/1-0-2/b\\_GUI\\_Config\\_Guide/GUI\\_Config\\_Guide\\_chapter4.pdf](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/1-0-2/b_GUI_Config_Guide/GUI_Config_Guide_chapter4.pdf)

To use the cluster configuration, the two fabric interconnects must be directly connected together using Ethernet cables between the L1 (L1-to-L1) and L2 (L2-to-L2) high availability ports, with no other fabric interconnects in between. This allows the two fabric interconnects to continuously monitor the status of each other and quickly know when one has failed.

#### **NEW QUESTION: 126**

Refer to the exhibit.



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

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

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

#### NEW QUESTION: 127

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: 128

A company has several data centers with hundreds of Cisco UCS blade chassis. A network consultant plans to active Cisco Discovery Protocol to the servers to facilitate Layer 1 troubleshooting. For security reasons, the company wants to restrict the servers from sending

different MAC addresses to the fabric interconnect after the MAC address from the first packet is learned. Which two policies be modified to support this design? (Choose two.)

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

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

Reference:

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/ucs-manager/GUI-User-Guides/Network-Mgmt/4-0/b\\_UCSM\\_Network\\_Mgmt\\_Guide\\_4\\_0/b\\_UCSM\\_Network\\_Mgmt\\_Guide\\_4\\_0\\_chapter\\_01010.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Network-Mgmt/4-0/b_UCSM_Network_Mgmt_Guide_4_0/b_UCSM_Network_Mgmt_Guide_4_0_chapter_01010.html)

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

## Creating a Network Control Policy

MAC address-based port security for Emulex converged Network Adapters (N20-AE0102) is not supported. When MAC address-based port security is enabled, the fabric interconnect restricts traffic to packets that contain the MAC address that it first learns. This is either the source MAC address used in the FCoE Initialization Protocol packet, or the MAC address in an ethernet packet, whichever is sent first by the adaptor. This configuration can result in either FCoE or Ethernet packets being dropped.

### Procedure

- Step 1** In the Navigation pane, click **LAN**.
- Step 2** Expand **LAN > Policies**.
- Step 3** Expand the node for the organization where you want to create the policy.  
If the system does not include multitenancy, expand the **root** node.
- Step 4** Right-click the **Network Control Policies** node and select **Create Network Control Policy**.
- Step 5** In the Create Network Control Policy dialog box, complete the required fields.
- Step 6** In the LLDP area, do the following:
  - a. To enable the transmission of LLDP packets on an interface, click **Enabled** in the **Transmit** field.
  - b. To enable the reception of LLDP packets on an interface, click **Enabled** in the **Receive** field.
- Step 7** In the **MAC Security** area, do the following to determine whether the server can use different MAC addresses when sending packets to the fabric interconnect:
  - a. Click the **Expand** icon to expand the area and display the radio buttons.
  - b. Click one of the following radio buttons to determine whether forged MAC addresses are allowed or denied when packets are sent from the server to the fabric interconnect:
    - **Allow**— All server packets are accepted by the fabric interconnect, regardless of the MAC address associated with the packets.
    - **Deny**— After the first packet has been sent to the fabric interconnect, all other packets must use the same MAC address or they will be silently rejected by the fabric interconnect. In effect, this option enables port security for the associated vNIC.

If you plan to install VMware ESX on the associated server, you must configure the **MAC Security** to **allow** for the network control policy applied to the default vNIC. If you do not configure **MAC Security** for **allow**, the ESX installation may fail because the MAC security permits only one MAC address while the installation process requires more than one MAC address.

**Note** Cisco UCS Manager Release 4.0(2) introduces support for **MAC Security** on Cisco UCS 6454 Fabric Interconnects.

The next step is to apply the new policy to the ESX vNICs. If you are using updating vNIC templates then all you need to do is go to each **vNIC template for your ESX vNICs** select the new policy from the **Network Control Policy** drop down. If you are not using vNIC templates but you are using an updating Service Profile Template then you can enable it there. If you are using one-off Service Profiles are a non-updating Service Profile then you must go to every Service Profile and enable this new policy on every vNIC.

**NEW QUESTION: 129**

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

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

**Answer: C (LEAVE A REPLY)**

<https://www.cisco.com/c/en/us/support/docs/servers-unified-computing/ucs-5100-series-blade-server-chassis/116075-ucs-app-connectivity-tshoot-00.html>

**Definition of a Unified Storage Port**

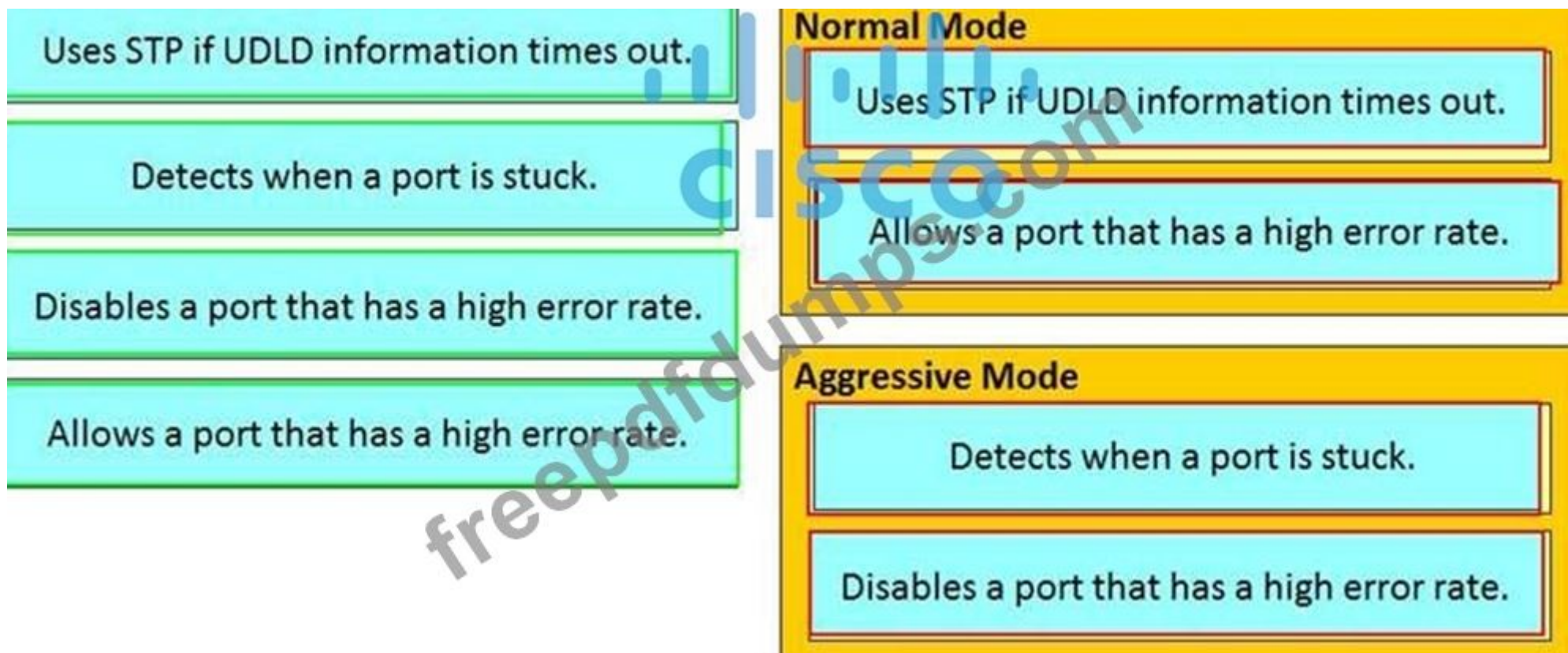
Prior to UCS Release 2.1(1a), appliance ports only worked for IP-based storage traffic, such as the Network File System (NFS) and the Internet Small Computer System Interfaces (iSCSIs). In UCS Releases 2.1(1a) and later, the ability for both IP-based storage and Fibre Channel over Ethernet (FCoE) to be used on the same interface was added. This type of interface is called a *Unified Storage port*. In order to use this feature, the storage controller must have a Converged Network Adapter (CNA) that is capable of FCoE and traditional Ethernet on the same port.

**NEW QUESTION: 130**

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>   
Detects when a port is stuck.	
Disables a port that has a high error rate.	<b>Aggressive Mode</b>   
Allows a port that has a high error rate.	

**Answer:**



**NEW QUESTION: 131**

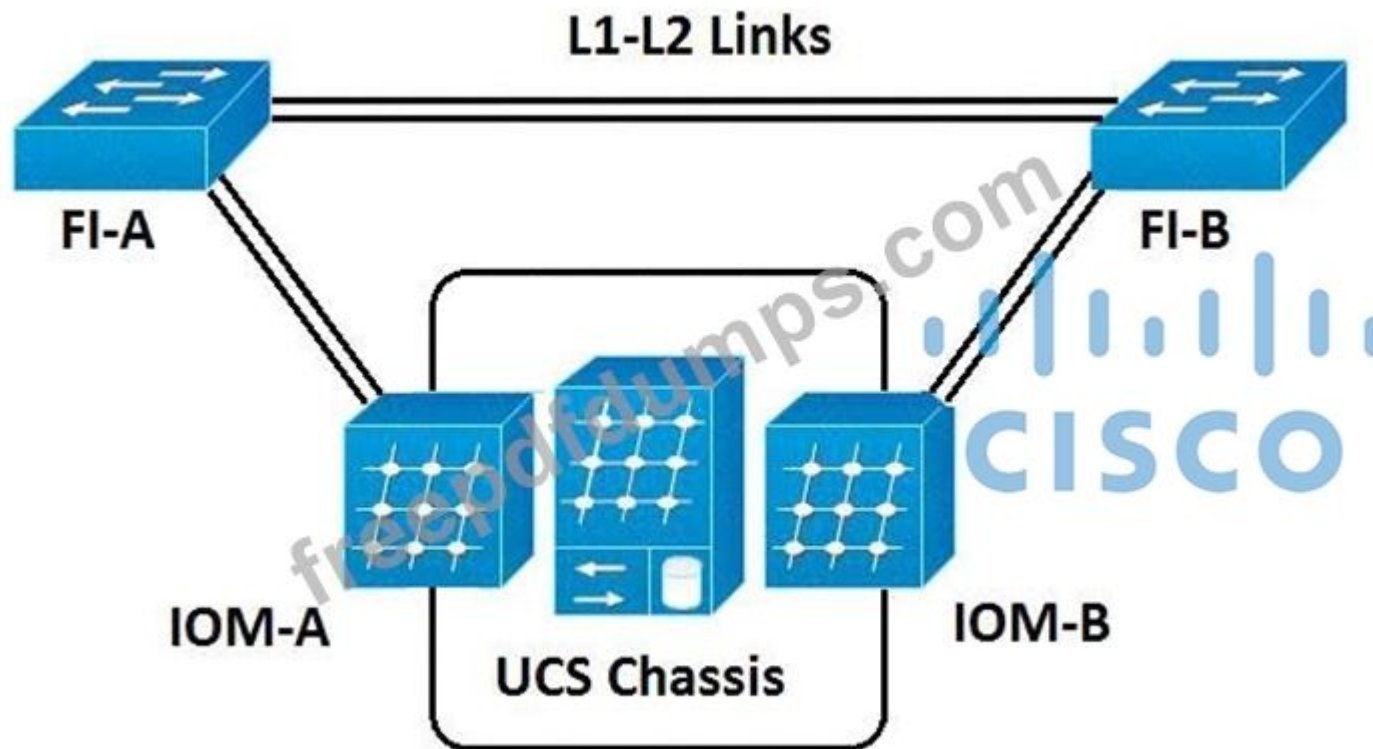
An engineer must interconnect customer data centers by using a 10-Gbps, unicast-only, Layer 3 circuit. The requirement is to stretch the Layer 2 connection over the tunnel, isolate STP traffic, and create more than two million logical network segments. Which solution meets these requirements?

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

**Answer: B (LEAVE A REPLY)**

**NEW QUESTION: 132**

Refer to the exhibit.



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

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

**Answer:** (SHOW ANSWER)

#### NEW QUESTION: 133

A network engineer is implementing Cisco UCS manager with Cisco UCS center 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. Global maintenance
- B. Public network control
- C. Restricted chassis
- D. Local power
- E. Local service

**Answer:** A,E (LEAVE A REPLY)

Reference:

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/ucs-central/GUI-User-Guides/Operations/b\\_UCSC\\_Ops\\_Guide/b\\_UCSC\\_Ops\\_Guide\\_chapter\\_0111.html#id\\_16185](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-central/GUI-User-Guides/Operations/b_UCSC_Ops_Guide/b_UCSC_Ops_Guide_chapter_0111.html#id_16185)

## User Acknowledgment Behavior Explained

- Global service profiles with global maintenance policy:
  - Shows pending activities alert in Cisco UCS Manager, **cannot** acknowledge in Cisco UCS Manager.
  - Shows pending activities alert in Cisco UCS Central, can acknowledge in Cisco UCS Central.
- Local service profiles with global maintenance policy:
  - Shows pending activities in Cisco UCS Manager, **cannot** acknowledge in Cisco UCS Manager.
  - Shows in Cisco UCS Central pending activities, **must** acknowledge in Cisco UCS Central.
- Local service profile with local maintenance policy (UCS domain registered with Cisco UCS Central):
  - Shows pending activities in Cisco UCS Manager, can acknowledge in Cisco UCS Manager.
  - Shows in Cisco UCS Central pending activities, can acknowledge in Cisco UCS Central.

### NEW QUESTION: 134

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

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

**Answer: D (LEAVE A REPLY)**

Section: Storage Network Design

Explanation/Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5\\_0/configuration/guides/ipsvc/nxos/ipsvc/cfcip.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_0/configuration/guides/ipsvc/nxos/ipsvc/cfcip.html)

### NEW QUESTION: 135

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: A,C (LEAVE A REPLY)**

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: 136**

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

(Choose two.)

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

**Answer: C,E (LEAVE A REPLY)**

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**NEW QUESTION: 137**

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

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

**Answer: (SHOW ANSWER)**

Section: Compute Design

Explanation/Reference: [https://www.iol.unh.edu/sites/default/files/knowledgebase/10gec/10GbE\\_CI49.pdf](https://www.iol.unh.edu/sites/default/files/knowledgebase/10gec/10GbE_CI49.pdf)

**NEW QUESTION: 138**

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

Which mechanism must be deployed to support these requirements?

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

**Answer: D (LEAVE A REPLY)**

**NEW QUESTION: 139**

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: 140**

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

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

**Answer: D (LEAVE A REPLY)**

**NEW QUESTION: 141**

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

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 142

A customer must install a new Hyperflex Stretched cluster in two sites. Low latency and predictable high performance are the top priorities for this setup due to the extensive usage of data-intensive applications across the cluster. Which HyperFlex storage solution is recommended to meet these requirements?

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

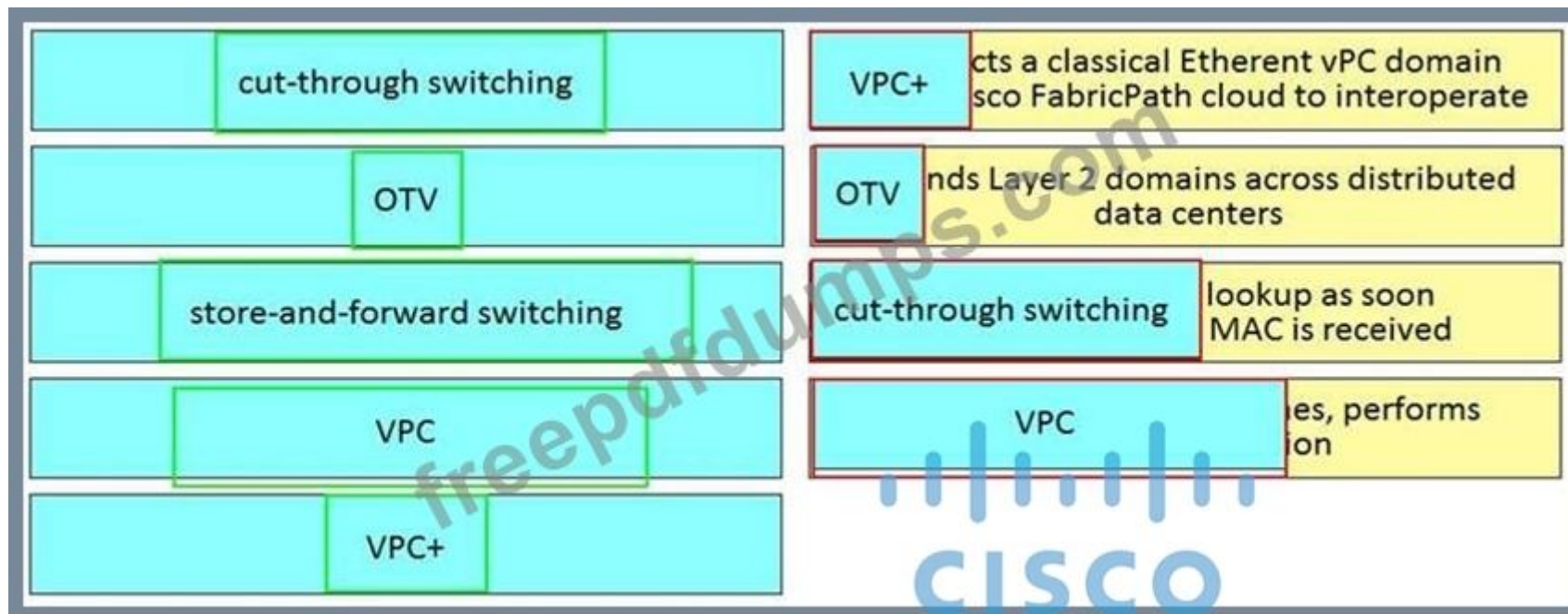
Answer: D ([LEAVE A REPLY](#))

#### NEW QUESTION: 143

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: 144**

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. NX-OS version
- C. DCNM to manage both fabrics
- D. multicast group

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

**NEW QUESTION: 145**

The user traffic destined to all web servers located in the data center must pass first through a set of firewalls for deep packet inspection. A network architect must design the Cisco Intelligent Traffic Director (ITD) deployment that meets these requirements:

The firewalls are connected to a set of two Cisco Nexus switches to provide stateful handling of traffic.

The ITD service is provided for inside and outside segments of the firewall.

Which ITD deployment mode must be implemented to meet these requirements?

- A. sandwich deployment mode
- B. server load-balancing deployment mode
- C. one-arm deployment mode
- D. server vPC deployment mode

**Answer: (SHOW ANSWER)**

**NEW QUESTION: 146**

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 C

B. Option A

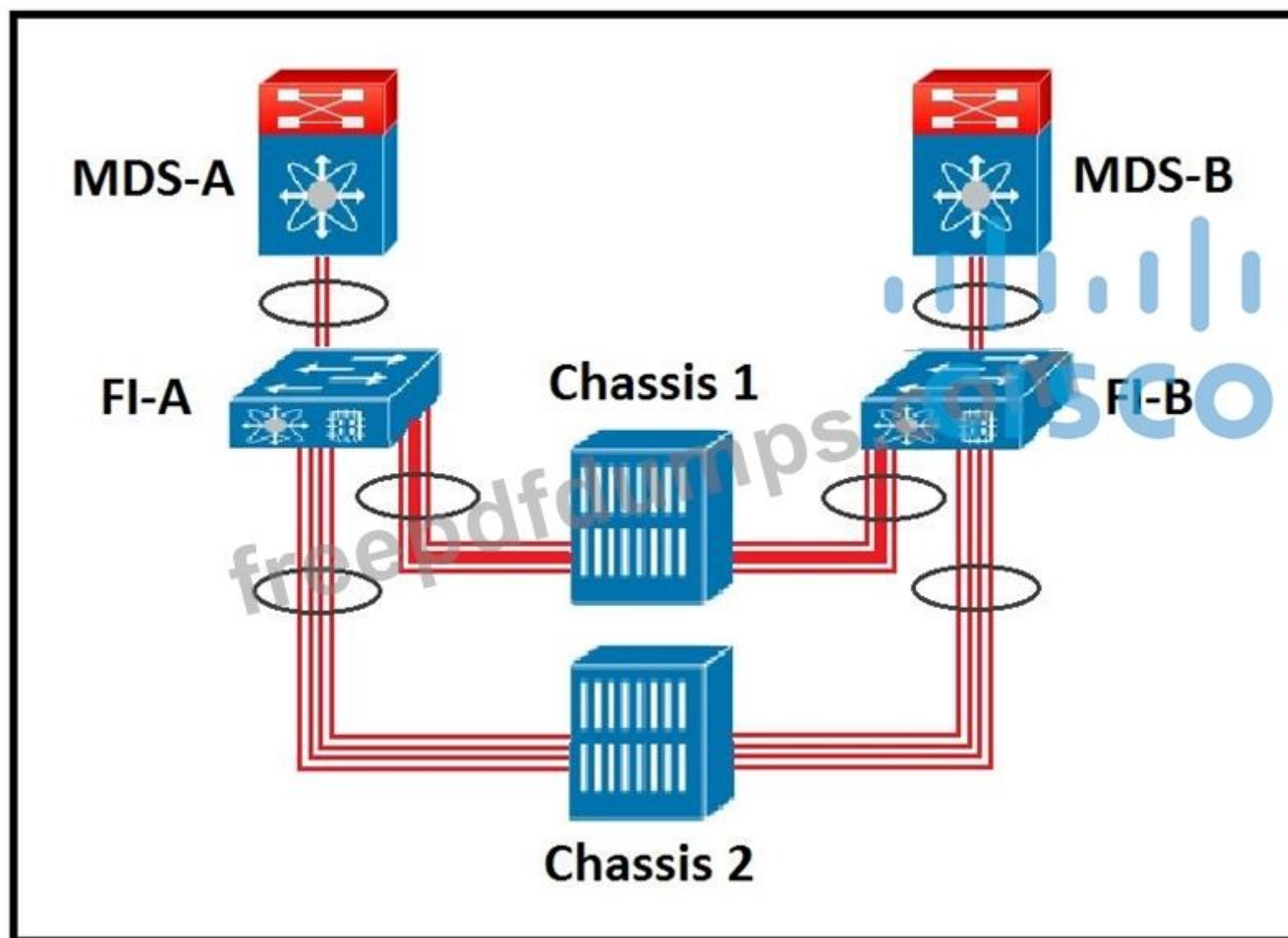
C. Option B

D. Option D

Answer: A (LEAVE A REPLY)

NEW QUESTION: 147

Refer to the exhibit.



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

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

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

**NEW QUESTION: 148**

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: 149**

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

Which port type should be used to meet these requirements?

- A. appliance
- B. uplink
- C. server
- D. network

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 150

A cloud service provider provisioned four active/active data centers in various locations within the country at 50 miles between each data center. The data centers must provide redundant network infrastructure and always be available to customers.

Which two data center design steps must be used to meet these requirements? (Choose two.)

- A. Provide application hosting services to customers from the closest data center.
- B. Deploy database services in data center 1 and application layer to other data centers.
- C. Implement active cluster in data centers 1 and 2 and backup in 3 and 4.
- D. Configure application data replication to all backup data centers.
- E. Use asynchronous replication between data centers 1 and 2.

Answer: ([SHOW ANSWER](#))

#### NEW QUESTION: 151

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

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**NEW QUESTION: 152**

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

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

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

**Answer: D,E (LEAVE A REPLY)**

**NEW QUESTION: 153**

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

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

#### NEW QUESTION: 154

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

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

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

#### NEW QUESTION: 155

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

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

**Answer: C (LEAVE A REPLY)**

#### **NEW QUESTION: 156**

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

**Answer: C (LEAVE A REPLY)**

#### **NEW QUESTION: 157**

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 host-facing FCoE ports as spanning-tree port type edge.
- B. Implement FCoE traffic on VLAN 10 and data traffic on VLAN 99.
- C. Configure the FCoE VLAN traffic on a separate interface from any other VLANs that traverse the network.
- D. Configure the FCoE VLAN in the VSAN database before including it in the trunk port.

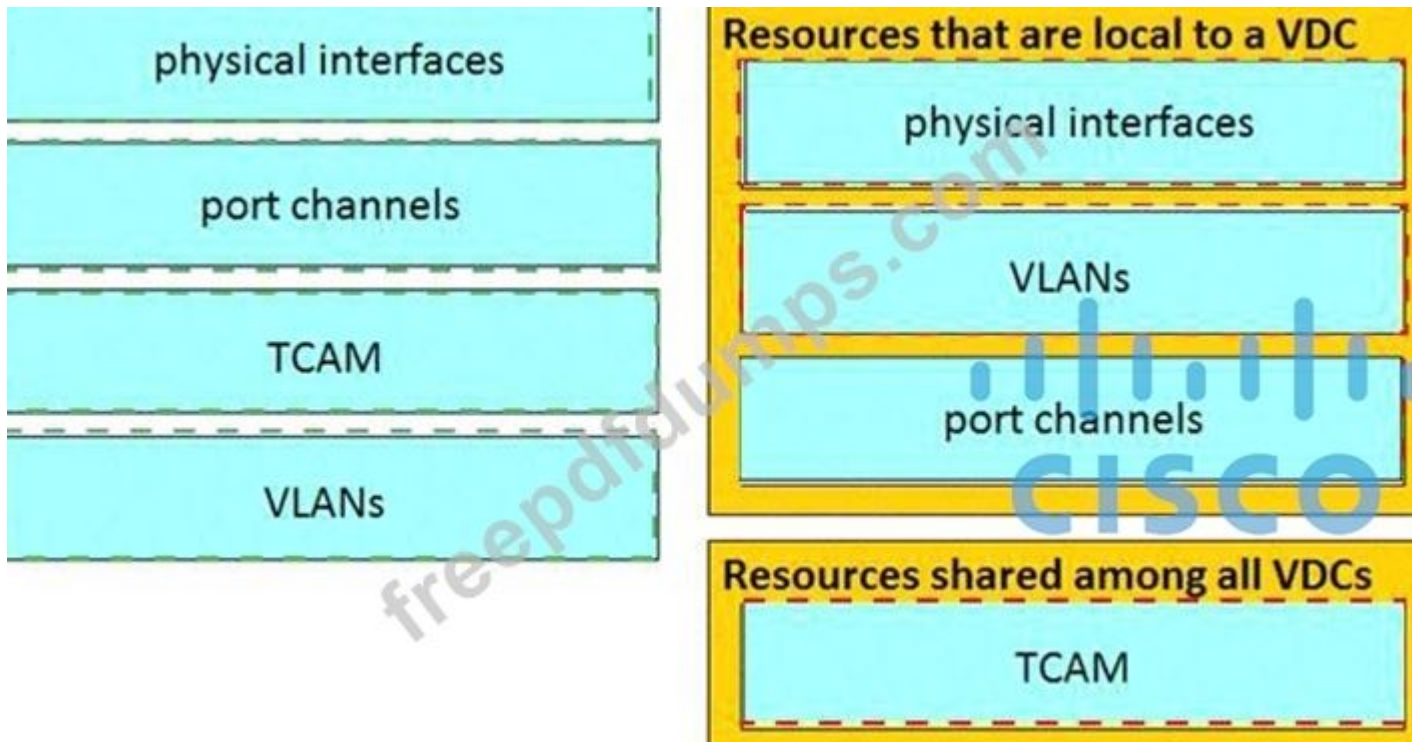
**Answer: B (LEAVE A REPLY)**

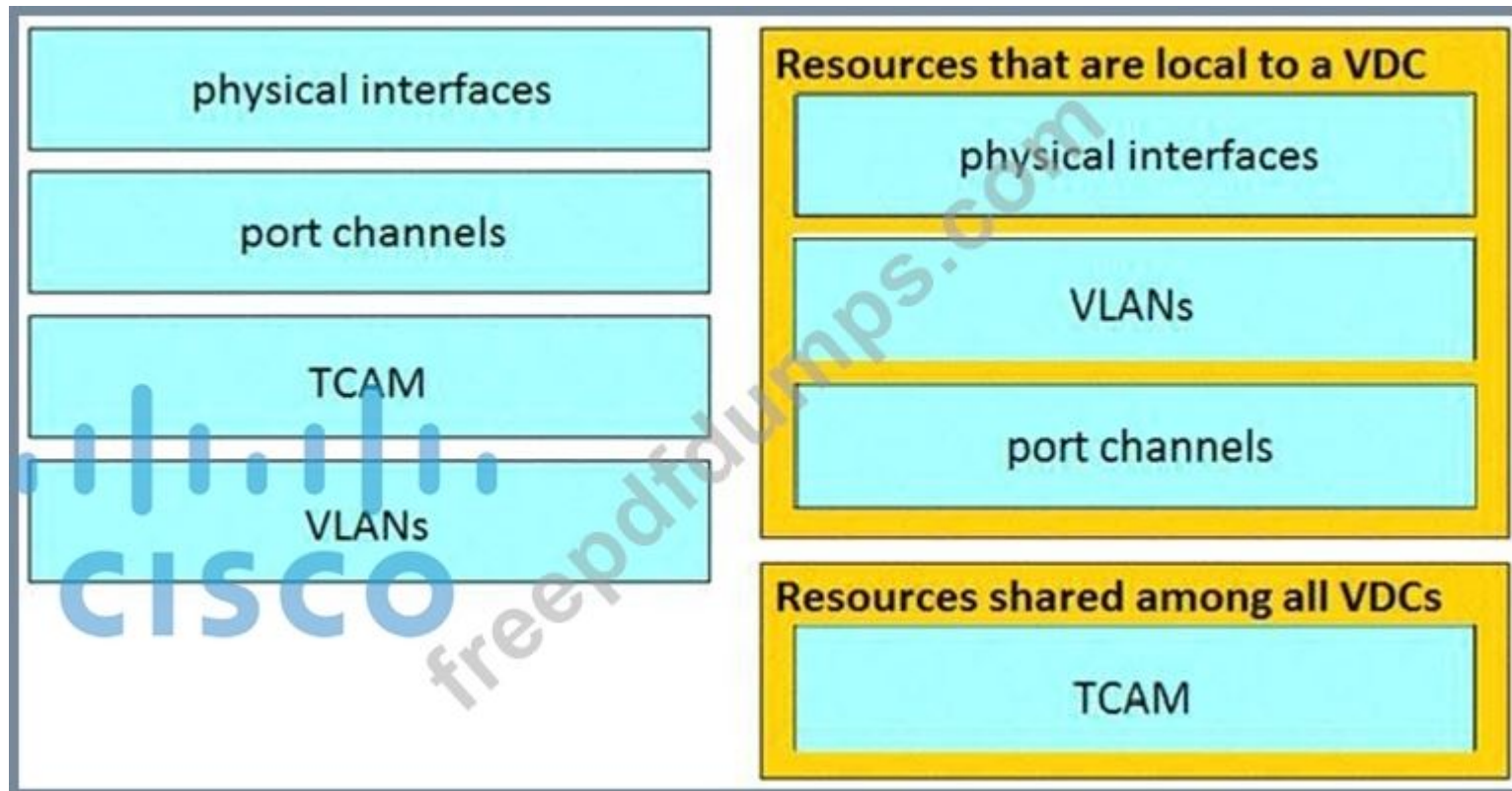
#### **NEW QUESTION: 158**

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



Answer:





**NEW QUESTION: 159**

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

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

**Answer: A (LEAVE A REPLY)**

Python is object-oriented and imperative language.

YAML is declarative.

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