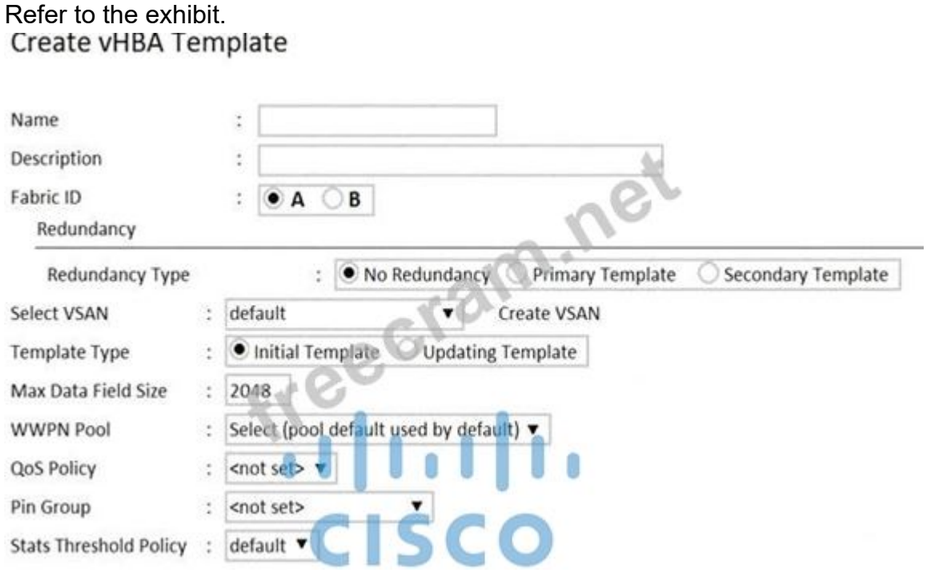
Cisco.300-610.v2026-10-06.q138

Exam Code:	300-610
Exam Name:	Designing Cisco Data Center Infrastructure
Certification Provider:	Cisco
Free Question Number:	138
Version:	v2026-10-06
# of views:	103
# of Questions views:	1386
https://www.freecram.net/torrent/Cisco.300-610.v2026-10-06.q138.html	

NEW QUESTION: 1
Refer to the exhibit.



Which template is used when a vHBA template pair is created for a specific server that inherits its attributes from an existing template?
A. Primary
B. Updating
C. Secondary
D. Initial
Answer: D (LEAVE A REPLY)

NEW QUESTION: 2
A storage engineer requires a solution that achieves multiple paths between a server and storage array. The design must support complete traffic isolation and support a 50% growth in the next year. Which FCoE solution meets these requirements?
A. single switch with multiple links

B. at least two VSANs across the fabric
C. at least two FC zone sets with multiple zones
D. single VSAN across the fabric
Answer: (SHOW ANSWER)
Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_2/configuration/guides/dmm/dmmcfg/toplgy.html

NEW QUESTION: 3
A network engineer designs a virtual network in a Cisco UCS Manager. The traffic must be explicitly forwarded from the vNIC on the server to a specific uplink Ethernet port on the Cisco fabric interconnect. Also, the server vNIC must use the same uplink Ethernet port after reboot. Finally, the design requires a OoS policy for remote direct memory access over converged Ethernet (RoCE v2). Which set of design features meets these requirements?
A. vNIC template and Gold priority
B. vNIC pool and Silver priority
C. LAN pin group and Platinum priority
D. server VLAN pool and Gold priority
Answer: (SHOW ANSWER)

NEW QUESTION: 4
A network consultant evaluates the Cisco UCS Fabric Interconnect SAN configuration, which must meet these requirements:
All traffic must pass over the upstream device for switching and domain IDs must be preserved in the fabric.
Each server should be pinned to one designated upstream interface and for the traffic to pass through the pinned port.
Which Fabric Interconnect SAN operational mode meets these requirements?
A. NPIV
B. end host
C. Fibre Channel
D. switch
Answer: (SHOW ANSWER)

NEW QUESTION: 5
An engineer enables the HSRP feature on a Cisco Nexus 7000 Series Switch. It must be ensured that the switch manages packets that are sent to the local vPC MAC address, remote vPC MAC address, and HSRP virtual MAC address.
Which command accomplishes this goal?
A. map-server
B. peer-gateway
C. hsrp preempt
D. peer-switch
Answer: (SHOW ANSWER)

NEW QUESTION: 6
A company must integrate an iSCSI storage solution into its existing production environment. The new iSCSI network must be accessible from a limited set of network segments. The client devices follow a strict network security policy to access critical data from the storage array. Which design steps must be used to meet these requirements?
A. Option D

B. Option A
C. Option C
D. Option B
Answer: C (LEAVE A REPLY)

NEW QUESTION: 7
A customer needs a design for a new data center network that meets these requirements:
Logically partition the environment into separate security domains.
Cut costs related to purchasing additional equipment.
Separate routing processes, TCAM, QoS tables, and data planes.
Which technology must be used?
A. vPC
B. VRF
C. VDC
D. VLAN
Answer: (SHOW ANSWER)

NEW QUESTION: 8
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 separate VRF for the testing and development environments.2) Control reachability by using firewall access policies.
C. 1) Create a VRF for the testing and development environments.2) Use ACLs to control traffic between the two environments.
D. 1) Assign a separate VDC for the testing and development environments.2. Place a firewall between the VDCs.
Answer: (SHOW ANSWER)

NEW QUESTION: 9



Refer to the exhibit. FCoE is used in the topology between the SAN Storage devices and SAN-Core routers.
After noticing traffic drops to hosts accessing SAN-B storage, the engineering team wants to reduce the oversubscription ratio in the topology. Which action must the team take?

A. Configure QoS to prioritize SAN-B traffic.
B. Increase the bandwidth between SAN-A and SAN-B Storage toward the SAN-Core devices.
C. Configure QoS to prioritize SAN-A traffic
D. Increase the bandwidth between the SAN-Coro and SAN-Edgo devices.
Answer: (SHOW ANSWER)

NEW QUESTION: 10

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. Phython
B. Bash
C. YAML
D. Perl
Answer: (SHOW ANSWER)
Python is object-oriented and imperative language.
YAML is declarative.

NEW QUESTION: 11
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.

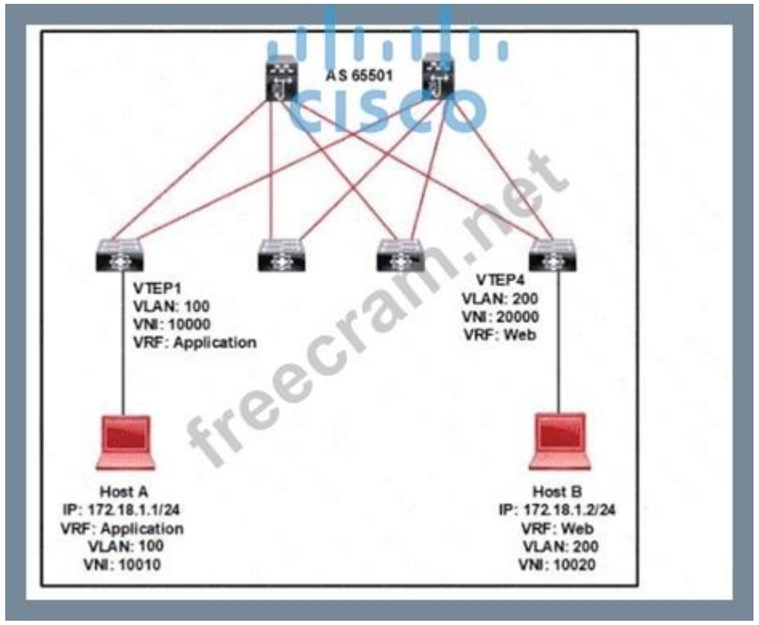
B. Configure the FCoE VLAN traffic on a separate interface from any other VLANs that traverse the network.

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

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

Answer: (SHOW ANSWER)

NEW QUESTION: 12



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

* interface VLAN 100 on VTEP1 with no IP address

* interface VLAN 200 on VTEP4 with no IP address

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

A. Associate VNI 20000 to VRF Web on VTEP1.Associate VNI 10000 to VRF Application on VTEP1.

B. Associate VN110000 to VRF Web on VTEP4.Associate VNI 10000 to VRF Application on VTEP1.

C. Associate VN110000 to VRF Application on VTEP4.Associate VNI 20000 lo VRF Web on VTEP1.

D. Associate VNI 20000 to VRF Application on VTEP1.Associate VNI 20000 to VRF Web on VTEP1.

Answer: (SHOW ANSWER)

NEW QUESTION: 13

An engineer must design a VXLAN EVPN network. The solution should optimize broadcast, unknown unicast, and multicast (BUM) and short BUM replication, and use PIM anycast RP. Which solution should be included in the design?

A. head-end replication

B. PIM sparse mode

C. PIM dense mode

D. ingress replication
Answer: (SHOW ANSWER)

NEW QUESTION: 14
A network architect wants to automate data center LAN configuration by use of Kubernetes, aligned with Cisco best practices for underlay and overlay provisioning The automation must be able to operate in high-availability mode with active/active operation between hosts in dual data centers. Which configuration approach must the architect choose?
A. Cisco OpFlex
B. OpenFlow
C. Cisco Nexus Dashboard Fabric Controller
D. APIC-EM CLI
Answer: (SHOW ANSWER)

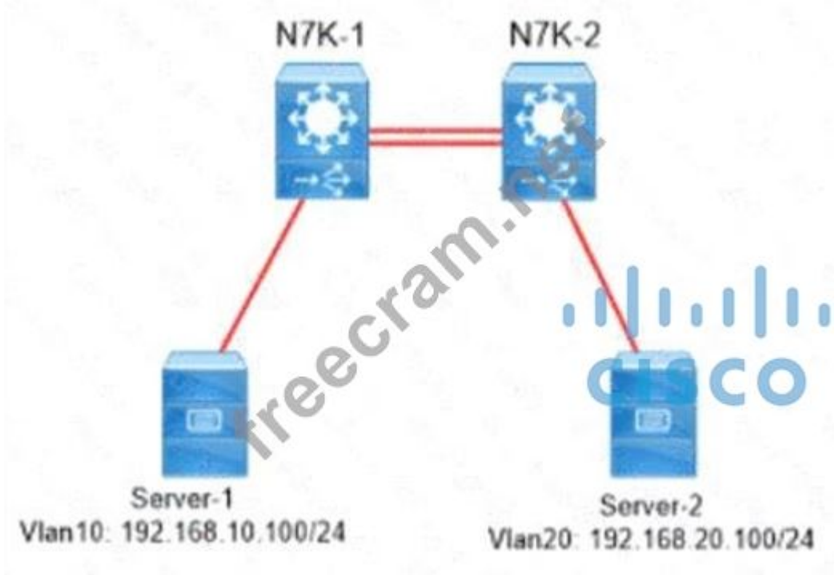
NEW QUESTION: 15
Company A has engaged a network architect to design a robust redundancy strategy for its primary data center. The company wants an active-active configuration within the primary data center and a disaster- recovery site that can take over operations after a major disruption. The company has these requirements:
The solution must provide high availability and minimize downtime.
Data must remain synchronized and consistent between the primary and disaster-recovery sites.
The recovery time objective (RTO) must be less than four hours, and the recovery point objective (RPO) must not exceed 15 minutes.
The network solution must follow RFC 7348 principles.
Which solution meets the requirements?
A. Implement DMVPN Phase 3 to establish a secure channel between the data centers.
B. Implement a Geneve-based overlay to replicate all storage data to a remote backup site and ensure rapid disaster recovery.
C. Implement a VXLAN-based overlay to provide network virtualization, segmentation, flexibility, and scalability.
D. Implement OTV to provide seamless virtual-machine migration and active-active workload distribution across sites.
Answer: (SHOW ANSWER)
RFC 7348 defines Virtual Extensible LAN, so a VXLAN-based overlay is the only option that directly satisfies the stated standards requirement. VXLAN encapsulates Layer 2 Ethernet frames in UDP and transports them across a Layer 3 underlay. Its 24-bit VXLAN Network Identifier provides far greater segmentation scale than the 12-bit VLAN identifier, while the overlay permits workload mobility and logical network extension without requiring the underlay to carry every tenant VLAN. These properties support an active-active application design and preserve network identity when workloads move or recover between locations. The RTO and RPO are operational recovery objectives; VXLAN supplies the network reachability and segmentation foundation, while storage or application replication must maintain the required 15-minute data currency and the recovery orchestration must complete service restoration within four hours. The overlay itself does not replace application-consistent replication or recovery automation. DMVPN provides scalable routed VPN connectivity but is not the RFC 7348 data-center overlay. Geneve is a different encapsulation and does not itself replicate storage data. OTV is a Cisco MAC-in-IP Layer 2 extension technology and can support workload mobility, but it is not the protocol defined by RFC 7348. Therefore, where the question requires an RFC 7348-compliant network design, VXLAN is determinative. Cisco VXLAN EVPN design guide

NEW QUESTION: 16
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-SAN
B. Hybrid
C. All-Flash
D. All-HDD

Answer: (SHOW ANSWER)

Valid 300-610 Dumps shared by EduDump.com for Helping Passing 300-610 Exam! EduDump.com now offer the **newest 300-610 exam dumps**, the EduDump.com 300-610 exam **questions have been updated** and **answers have been corrected** get the **newest** EduDump.com 300-610 dumps with Test Engine here: https://www.edudump.com/exams/Cisco/300-610/premium/ (**350** Q&As Dumps, **35%OFF Special Discount Code: freecram**)

NEW QUESTION: 17
Refer to the exhibit.



A system administrator needs a solution to manage random packet drops between two Cisco UCS C240 M4 servers The servers are connected to a pair of Cisco Nexus 7009 switches using 10G fibre interfaces Both servers are generating too many east-west traffic flows from TCP-based applications which causes significant latency that impacts the customer Also the transfer of files from Server-1 to Server-2 larger than 10 GB results in multiple retransmits Which design solution resolves this issue?
A. Add a second uplink to each server NIC
B. Apply rate-limit on the server 1 VLAN interface per application flow.
C. Connect both servers m the same VLAN
D. Increase the amount of memory m both servers
Answer: (SHOW ANSWER)

NEW QUESTION: 18
An engineer deploys LISP VM mobility. Which feature is configured on the interfaces that have VM mobility enabled?
A. IP redirects
B. flow control
C. proxy ARP
D. HSRP
Answer: (SHOW ANSWER)

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/lisp/configuration/guide/ b_NX-OS_LISP_Configuration_Guide/b_NX-OS_LISP_Configuration_Guide_chapter_010.html

NEW QUESTION: 19
A customer must deploy a new Cisco HyperFlex stretched cluster solution to ensure virtual server availability in case the data center fails. The current network environment provides multiple geographic locations. Which action must be taken to meet these objectives?
A. Deploy the stretch duster sites to be within the distance of 300 miles apart
B. Implement the round trip time latency between the sites to be lower than 20 ms
C. Place an independent witness component at a third site
D. Configure the cluster with the maximum data replication factor
Answer: (SHOW ANSWER)

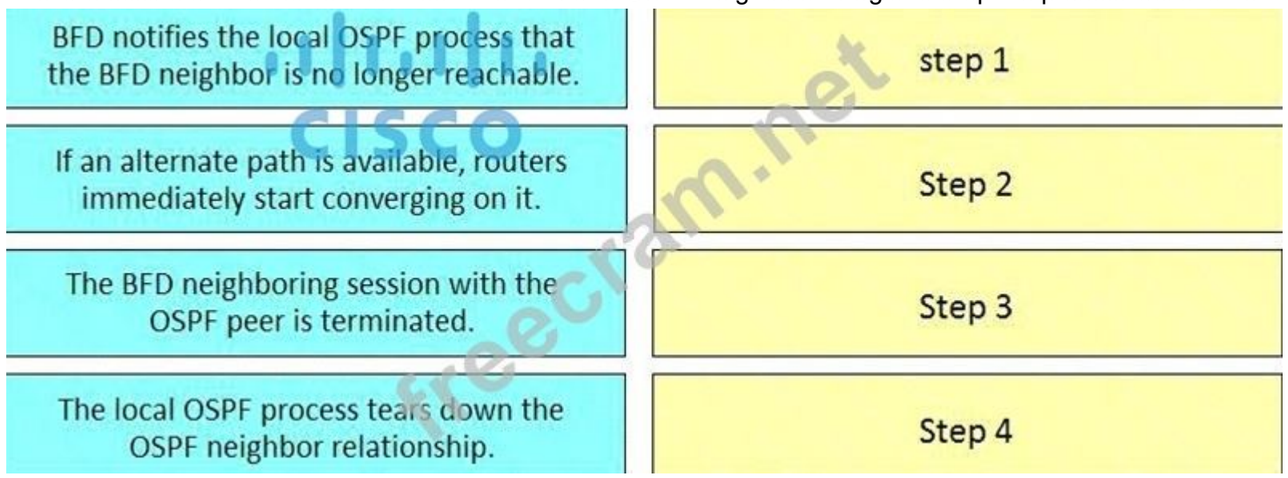
NEW QUESTION: 20
An engineer is designing a data center that uses FCIP. How is QoS configured in this environment?
A. A separate DSCP value and CoPP must be configured for all FCIP traffic and another for all of the FCIP in the data connection.
B. A separate DSCP value must be configured for all FCIP 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: (SHOW ANSWER)
Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_0/configuration/guides/ ipsvc/nxos/ipsvc/cfcip.html

NEW QUESTION: 21
Refer to the exhibit A Cisco engineer is configuring Cisco Nexus 7000 Series Switches. To simplify initial configuration verification and vPC+/HSRP troubleshooting, the engineer configures the primary vPC+ peer device with the FHRP active router highest priority. The primary FHRP device responds to ARP requests, even though the secondary vPC+ device also forwards the data traffic. Which configuration enables the Layer
3 connectivity from each vPC* peer device?
A. Set a restore timer that delays the vPC+ restart.
B. Manually configure virtual MAC addresses tor any FHRP protocol.
C. Configure a VLAN network interlace for the same VLAN from both devices.
D. Ensure that the enhanced Layer 2 license has been installed.
Answer: (SHOW ANSWER)

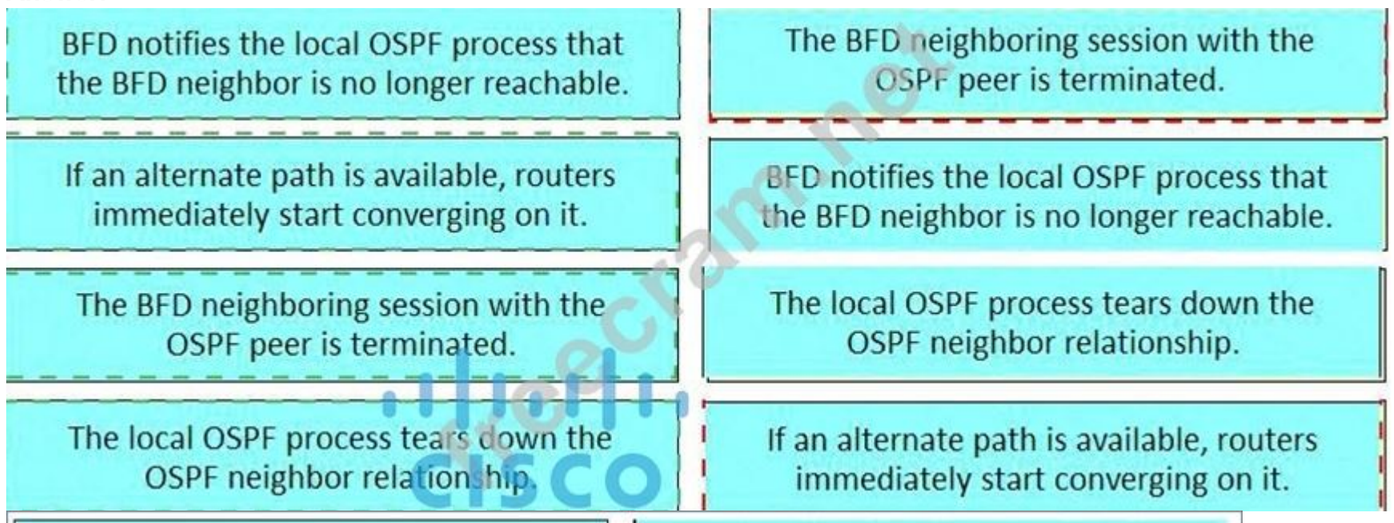
NEW QUESTION: 22
A network architect needs secure access to the organization's perimeter routers and firewalls. The administrator must access network devices from a remote location that is reachable from the WAN cloud Which action meets these requirements?
A. Enable the SSH protocol with a strong username and password using an internet link for management purposes
B. Create an in-band network management network
C. Create an out-of-band network management network
D. Create a secure IPsec tunnel interface using an internet link for device management purposes
Answer: (SHOW ANSWER)

NEW QUESTION: 23

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



Answer:





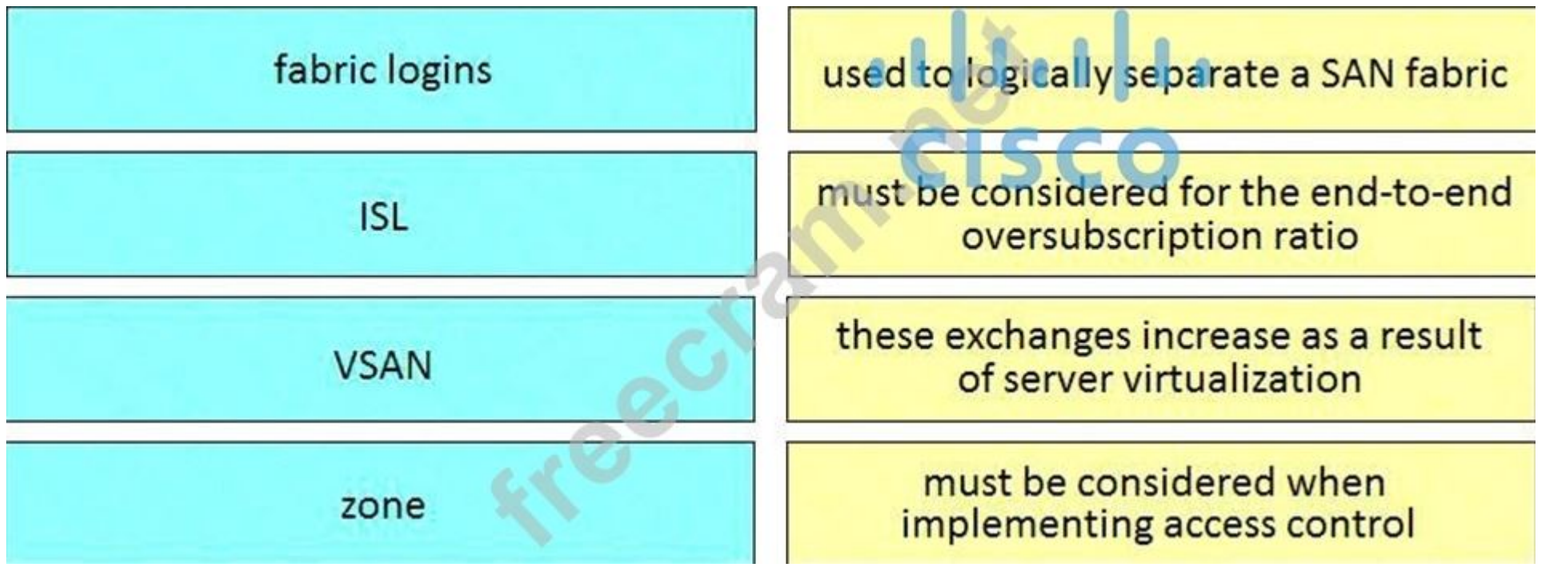
Reference: https://www.cisco.com/c/en/us/td/docs/ios/12_0s/feature/guide/fs_bfd.html#wp1238898

NEW QUESTION: 24
An engineer requires a solution that achieves Ethernet traffic forwarding on all available paths from the hosts to the Cisco Nexus Fabric Extender and from the Fabric Extenders to the Cisco Nexus 5000 Series Switches.
The NIC teaming from the Fabric Extender to a server should use an LACP EtherChannel. Which solution should be implemented to meet these requirements?
A. Back-to-Back Virtual Port Channel
B. Virtual Port Channel
C. Virtual Port Channel Plus (vPC+)
D. Enhanced Virtual Port Channel
Answer: (SHOW ANSWER)

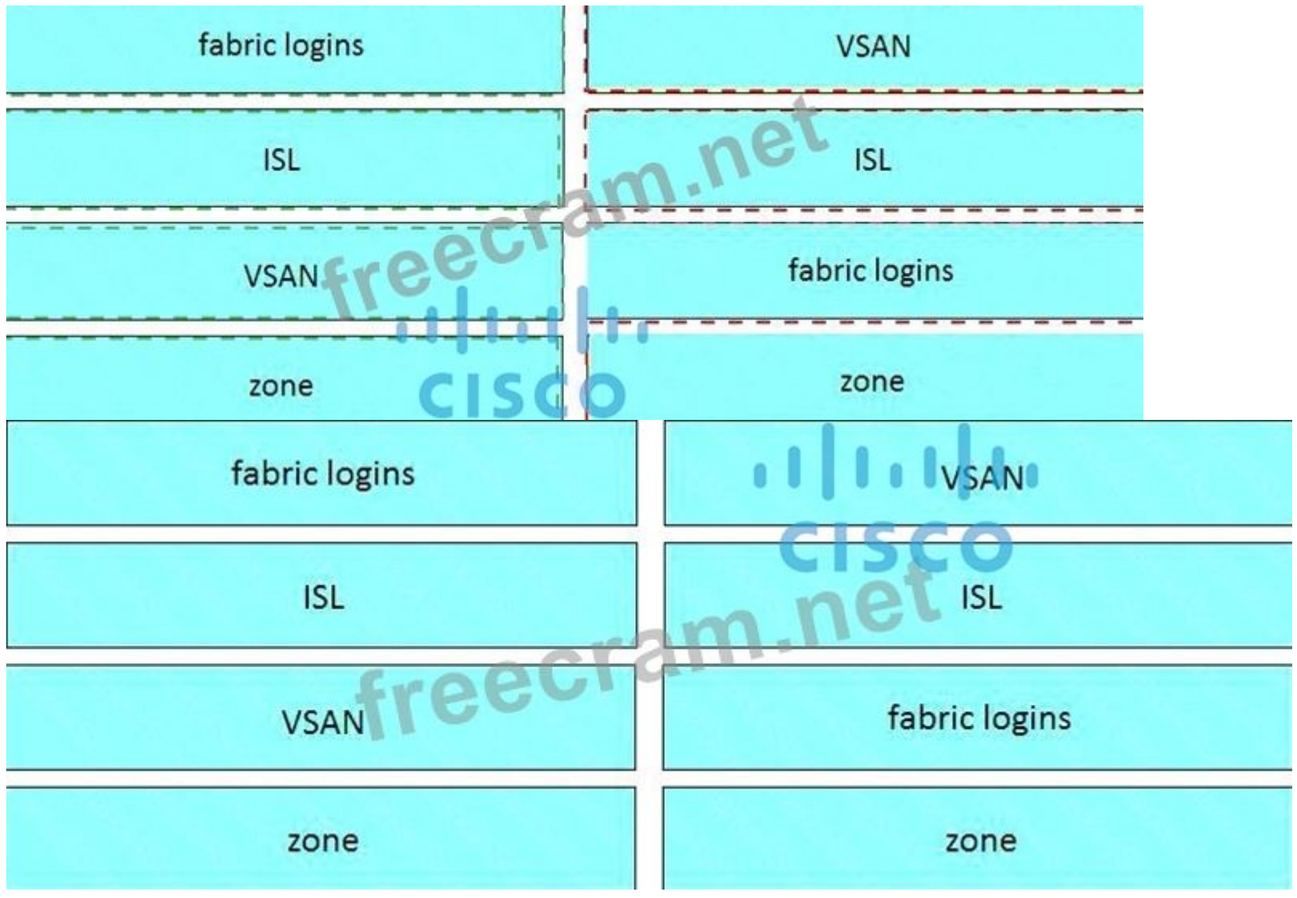
NEW QUESTION: 25
When planning to deploy a load-balancing service as a managed node, which ACI configuration must be included?
A. BGP ECMP
B. Layer 4 to Layer 7 device package
C. inline load-balancing device
D. ITD
Answer: (SHOW ANSWER)
Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI_Best_Practices/ b_ACI_Best_Practices/b_ACI_Best_Practices_chapter_0110.html

NEW QUESTION: 26
A network administrator must create a redundant vHBA for the mission-critical virtual machines (VMs) installed on a Cisco UCS Fabric Interconnect blade server. The VMs access multiple datastores using VSAN55 and VSAN95. The datastore on which the VMs are hosted must be accessible if any of the uplinks goes offline. Which action meets these requirements?
A. Enable failover for the vHBA with VSAN55 and VSAN95 enabled.
B. Attach VSAN55 to vHBA1 and VSAN95 to vHBA2.
C. Assign VSAN55 and VSAN95 to vHBA1 and vHBA2.
D. Configure load-balancing for vHBAs with VSAN55 and VSAN95 attached.
Answer: (SHOW ANSWER)

NEW QUESTION: 27
Drag and drop the SAN components from the left onto the correct design considerations on the right.

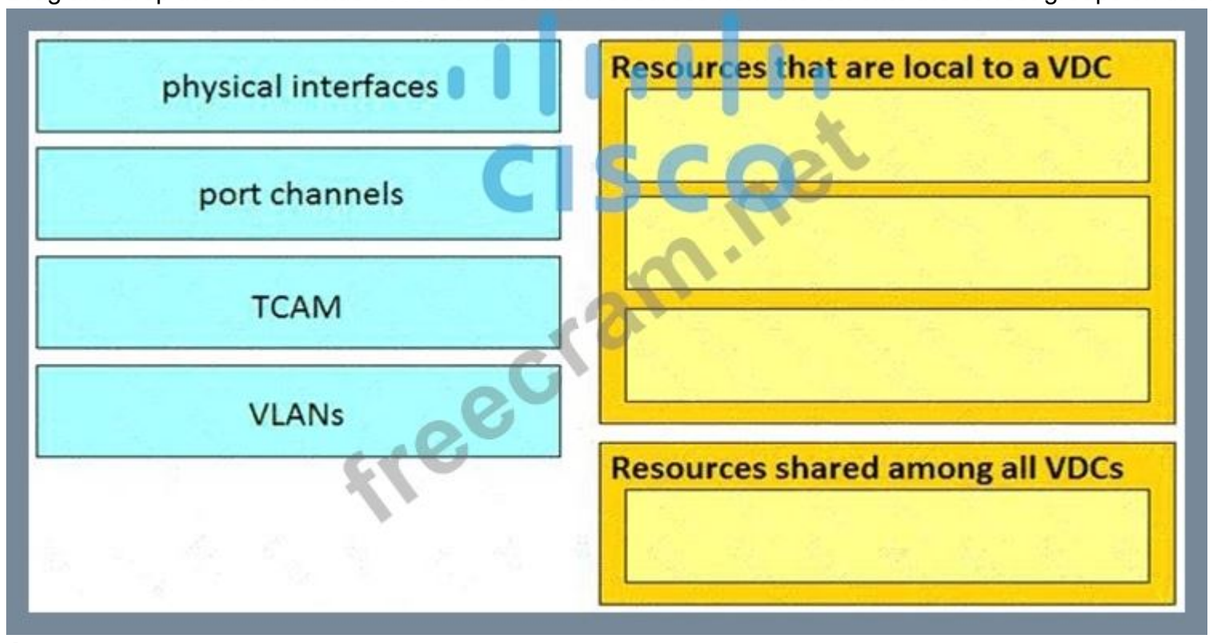


Answer:

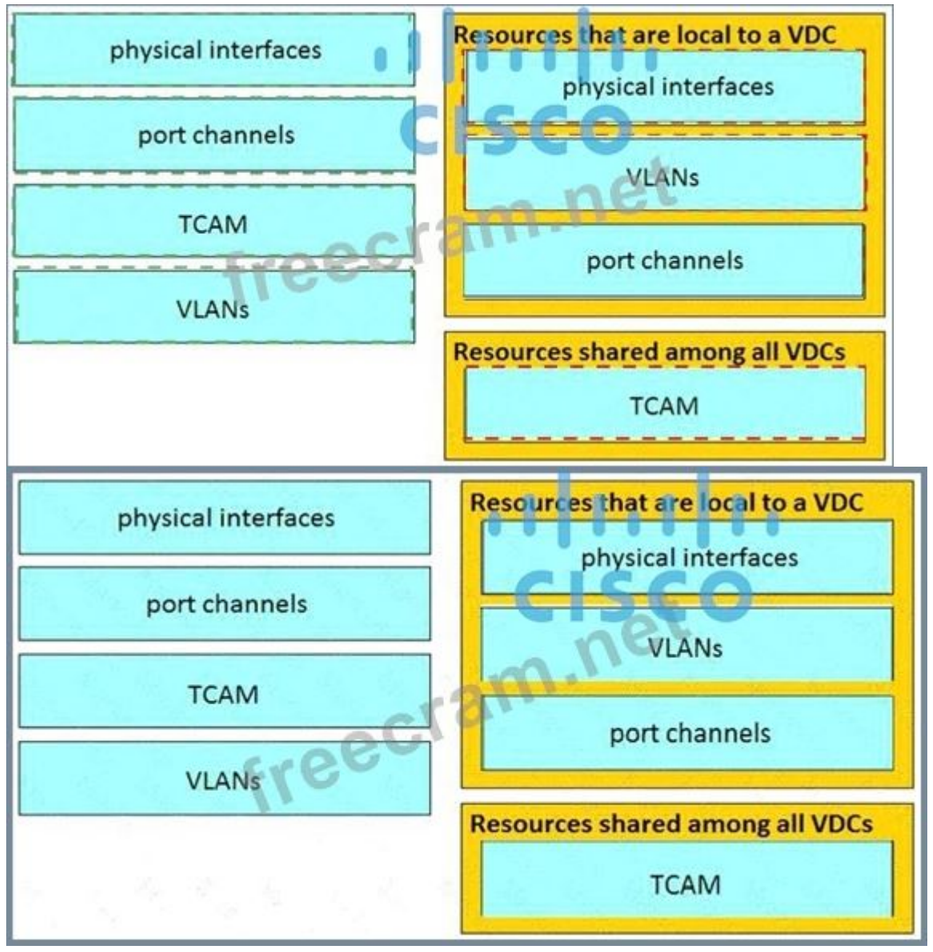


NEW QUESTION: 28

Refer to the exhibit.
A high-availability setup for iSCSI is designed with the host running ISCSI software. Each storage port on the MDS exports the same two Fibre Channel target ports with different ISCSI target names. In this design, how many ISCSI session are created from the host so that recovery occurs if any component fails?
A. 2
B. 3
C. 4
D. 5
Answer: (SHOW ANSWER)
https://www.cisco.com/en/US/docs/storage/san_switches/mds9000/sw/rel_3_x/configuration/guides/fm_3_2
/ciscsi.html

NEW QUESTION: 29
Drag and drop the Cisco Nexus 7000 Series Switch resources from the left onto the correct groups on the right.


Answer:



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

NEW QUESTION: 30

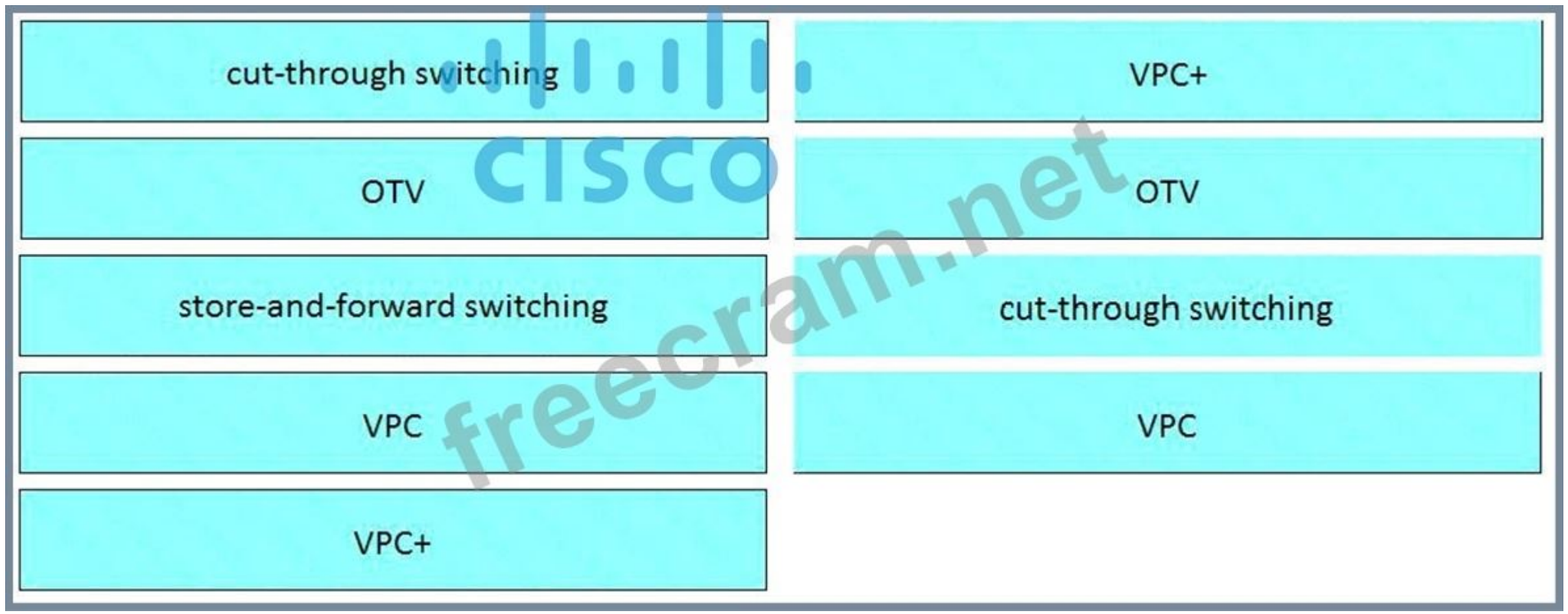
Drag and drop the data center technologies from the left onto the correct descriptions on the right. Not all technologies are used.

cut-through switching	connects a classical Etherent 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+	

freecram.net



NEW QUESTION: 31
A company owns a large-scale compute infrastructure that consists of over 1000 servers and virtual machines.
The operational complexity continues to grow with additional policies and servers added to the environment.
An infrastructure engineer is looking for an automation tool to reduce the operational complexity of configuring complex infrastructure. Because of the strict security requirements, the tool must be agentless, use the secure shell for transport, and be extendable using existing Python modules. Which tool meets these requirements?
A. NSO
B. Ansible
C. Puppet
D. Saltstack
Answer: (SHOW ANSWER)

Valid 300-610 Dumps shared by EduDump.com for Helping Passing 300-610 Exam! EduDump.com now offer the **newest 300-610 exam dumps**, the EduDump.com 300-610 exam **questions have been updated** and **answers have been corrected** get the **newest** EduDump.com 300-610 dumps with Test Engine here: https://www.edudump.com/exams/Cisco/300-610/premium/ (**350** Q&As Dumps, **35%OFF Special Discount Code: freecram**)

NEW QUESTION: 32
A network consultant reviews the requirements for the Storage Area Network (SAN) design. The proposed solution must offer a very efficient port usage and eliminate the need for a separate physical layer of switches and their associated ISLs. The design is not expected to require future expansion.
Which SAN topology must be used to meet these requirements?

A. core-edge
B. collapsed-core
C. core-distribution-access
D. edge-core-edge
Answer: A (LEAVE A REPLY)

NEW QUESTION: 33
To help automate the vHBA configuration process, a network engineer is configuring vHBA template pairs on UCS The engineer is creating primary and secondary templates to define how vHBAs on a server connect to the SAN. Which fact about the template pair should the engineer consider for Its potential impact on service7
A. The WWPN pool configuration will not be shared between the two templates.
B. The fabric ID configuration will be shared between the two templates
C. The description configuration will be shared between the two templates
D. The QoS policy configuration will not be shared between the two templates
Answer: (SHOW ANSWER)

NEW QUESTION: 34
An engineer is designing a Cisco UCS Central implementation for an existing Cisco UCS infrastructure, and the current policies must be reused. Which action must the engineer select?
A. Export the policies from Cisco UCS Manager and import them in Cisco UCS Central.
B. Connect Cisco UCS Manager to Cisco UCS Central and convert local policies to global policies.
C. Create new policies in Cisco UCS Central and change the assignment to central.
D. Retain existing policies in Cisco UCS Manager and use global policies for new service profiles.
Answer: (SHOW ANSWER)

NEW QUESTION: 35
The management of the Cisco Nexus switches is provided over an isolated put-of-band network. The VDC feature is configured on the Cisco Nexus core switches. How is out-of-band management access provided for each VDC?
A. Each VDC has a unique out-of-band IP address from the same IP subnet.
B. Each VDC has a unique out-of-band IP address from different IP subnets among VDCs.
C. Each VDC has a dedicated out-of-band Ethernet management port.
D. All the VDC have the same out-of-band IP address.
Answer: A (LEAVE A REPLY)

NEW QUESTION: 36
An engineer must design a Cisco UCS environment for a customer The design requires the most efficient use of available bandwidth with active-active uplinks The upstream Cisco Nexus 9000 Series Switch must automatically initiate the port-channel connectivity to the fabric interconnects Which configuration must the engineer choose to meet these requirements?
A. * fabric interconnects in Ethernet switching mode* LACP port-channel from fabric interconnects and Cisco Nexus 9000 switches
B. * fabric interconnects in Ethernet switching mode* static port-channel from fabric interconnects and Cisco Nexus 9000 switches
C. * fabric interconnects in Ethernet end-host mode* LACP port-channel from fabric interconnects and Cisco Nexus 9000 switches
D. * fabric interconnects in Ethernet end-host mode* static port-channel from fabric interconnects and Cisco Nexus 9000 switches
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_011.html
Cisco UCS Fabric Interconnect in Switch Mode with Cisco MDS 9000 Family Fibre Channel Switching Modules When the Cisco UCS Fabric Interconnect is in switch mode, the port channel mode can only be in ON mode and not Active . However, to get the peer wwn information for the Fabric Interconnect, the port channel must be in Active mode.

NEW QUESTION: 37
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. Configure application data replication to all backup data centers.
C. Use asynchronous replication between data centers 1 and 2.
D. Deploy database services in data center 1 and application layer to other data centers.
E. Implement active cluster in data centers 1 and 2 and backup in 3 and 4.
Answer: (SHOW ANSWER)

NEW QUESTION: 38
Which two types of service profile templates does Cisco UCS support? (Choose two.)
A. initial
B. permanent
C. updating
D. temporary
E. connected
Answer: (SHOW ANSWER)
Reference: https://www.cisco.com/en/US/docs/unified_computing/ucs/sw/gui/config/guide/141/ UCSM_GUI_Configuration_Guide_141_chapter28.
html#concept_C9D27CE2AA1245EA976DAA79F5BC6808

NEW QUESTION: 39
A midsize company recently deployed a Cisco UCS environment with a vSAN datastore to support its virtualized data center infrastructure. After monitoring the environment for several months, the network engineering team is concerned about potential performance degradation caused by competing traffic between management vNICs and vSAN over shared physical adapters. The team also wants a standardized approach to vNIC/vHBA placement across all blade servers to simplify maintenance, preserve consistency, and minimize configuration errors. Which two actions must the team take to achieve these goals? (Choose two.)
A. Deploy VLANs to separate the management vNIC from vSAN traffic and provision the configuration on the fabric interconnects.
B. Create a dedicated vCon placement policy for management vNICs and incorporate it into a reusable template.
C. Create a separate virtual fabric for management traffic.
D. Automate template submission across all blade servers by using Cisco UCS Manager.
E. Reroute management traffic to a dedicated network segment.
Answer: (SHOW ANSWER)
The design has two distinct requirements: traffic separation and repeatable interface placement. Option A addresses the first by assigning management and vSAN traffic to different VLANs and ensuring that those VLANs are defined and carried by the fabric interconnect configuration. VLAN separation creates distinct Layer 2 broadcast domains and lets the design apply independent upstream controls,

monitoring, and quality- of-service treatment. It does not create additional physical bandwidth by itself, but it prevents the two services from sharing one undifferentiated logical network and provides the policy boundary needed to manage contention. Cisco's vSAN validated design similarly maps in-band management and vSAN to different VLANs and separate vNIC group policies.
Option B addresses consistency. In Cisco UCS, a vNIC/vHBA placement policy specifies how vCons map to physical adapters and which virtual interfaces are assigned to each vCon. Incorporating a dedicated policy into a reusable service-profile template makes the same placement rules apply whenever profiles are instantiated for blade servers, reducing drift and manual errors. Cisco documentation explicitly describes placement policies as the mechanism for mapping vCons to physical adapters.
Option C is not a standard requirement; separate traffic classes do not require creating another UCS virtual fabric. Option D describes automation but does not define either the required traffic isolation or interface-to- adapter mapping. Option E is vague and lacks the UCS VLAN and placement-policy controls needed for a repeatable implementation. Therefore, A and B jointly satisfy both performance isolation and standardized placement. Cisco vSAN validated design and Cisco vNIC/vHBA placement guidance

NEW QUESTION: 40

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

Freecram.net

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

NEW QUESTION: 41
A network design must include a solution to run CLI commands remotely on Cisco Nexus 9000 Series Switches. The customer's security policy requires secure login credentials and an encrypted underlying transport. The command output will be processed using tools that support XML or JSON encoding. Which two components should be included in the design? (Choose two.)
A. Bash shell
B. HTTPS
C. SSH
D. NX-API
E. HTTP
Answer: (SHOW ANSWER)

NEW QUESTION: 42
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
```

freecram.net

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

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

Answer: (SHOW ANSWER)

This policy map shows a wrong MTU config. Check " 12. Do I need to enable Jumbo frames for FCOE? " in
https://community.cisco.com/t5/data-center-documents/fibre-channel-over-ethernet-fcoe-questions-and-answers-from-live/ta-p/3108755
https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/qos/521_n1_1
/b_5k_QoS_Config_521N11/b_5k_QoS_Config_521N11_chapter_0110.html

NEW QUESTION: 43

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. CFS localized to Its own data center
C. STP localized to Its own data center
D. vPC localized to Its own data center

Answer: (SHOW ANSWER)

NEW QUESTION: 44
A customer is evaluating a new disaster-recovery solution for their SAN, which is used for noncritical CRM purposes. The SAN is frequently backed up locally at the customer's existing single location, and several hours of data loss can be sustained. The customer wants to retain complete control of the failover process to a separate physical location. Which type of DR is most suitable for the customer?
A. cold standby
B. active/active
C. active/passive
D. warm standby
Answer: (SHOW ANSWER)

NEW QUESTION: 45
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)
Reference: https://www.evidian.com/products/high-availability-software-for-application-clustering
/synchronous- replication-vs-asynchronous-replication/

NEW QUESTION: 46
Which set of actions ensures that the Cisco UCS network configuration contains the required VLAN settings and that those settings are consistently applied through the service profile templates?
A. Define the VLANs directly on each service profile template, and manually attach the uplinks after template association.
B. Configure the VLANs as global parameters in Cisco UCS Manager, and associate the service profile template with a LAN connectivity policy.
C. Assign the VLANs to vNIC templates, and bind the vNIC templates to the service profile templates.
D. Add the VLANs directly to the server adapters from the Hardware tab, and bind the server adapter policy to the service profile template.
Answer: C (LEAVE A REPLY)
The reusable Cisco UCS design is to define VLAN membership on vNIC templates and reference those vNIC templates from the service profile templates. Cisco states that a vNIC can be bound to a vNIC template and that UCS Manager then configures the vNIC with the values defined by that template. If a bound vNIC does not match the template, UCS Manager reconfigures it; changes must subsequently be made through the associated template. This creates a single policy location for VLAN selection, fabric choice, MTU, QoS policy references, and related vNIC properties. Binding the vNIC template to the service profile template ensures that every derived service profile receives the same intended LAN configuration. With updating templates, eligible changes can propagate to already-associated profiles in a controlled manner. Defining settings separately in each service profile template duplicates configuration and weakens consistency.
Manually attaching uplinks is an infrastructure operation and does not provide reusable server-side VLAN policy. A LAN connectivity policy can group vNIC definitions, but merely declaring VLANs globally does not assign them to the vNICs consumed by the servers. Editing individual server adapters from the Hardware tab defeats policy-based stateless computing and creates configuration drift; a server adapter policy controls adapter behavior rather than VLAN membership. Option C is therefore the only approach that centralizes VLAN intent at the correct UCS abstraction and applies it consistently to all profiles derived from the templates. Cisco UCS Manager vNIC template behavior

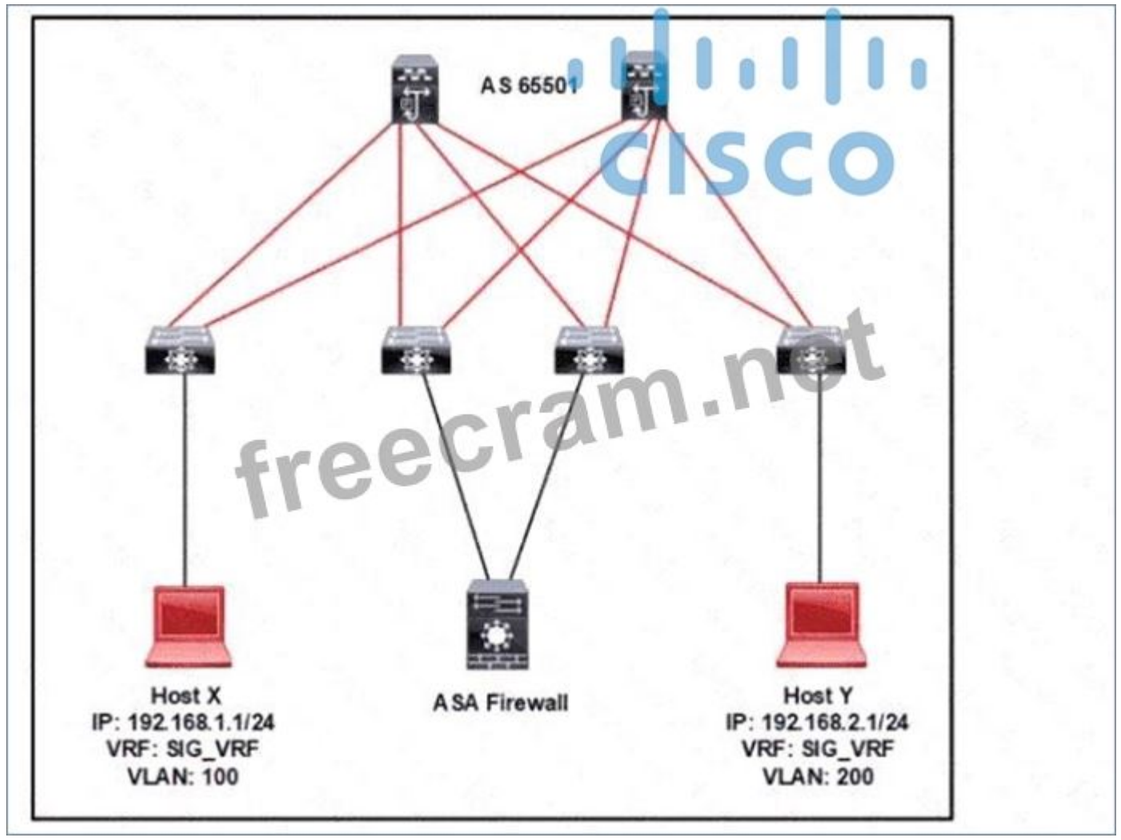
Valid 300-610 Dumps shared by EduDump.com for Helping Passing 300-610 Exam! EduDump.com now offer the **newest 300-610 exam dumps**, the EduDump.com 300-610 exam **questions have been updated** and **answers have been corrected** get the **newest** EduDump.com 300-610 dumps with Test Engine here: https://www.edudump.com/exams/Cisco/300-610/premium/ (**350** Q&As Dumps, **35%OFF Special Discount Code: freecram**)

NEW QUESTION: 47
A company has several data centers around the world that must be interconnected over Layer2. The service provider supports MPLS services to all the locations. The proposed solution must be vendor agnostic and scalable enough to support the rapid growth of the company. Which data center technology is recommended to achieve this goal?
A. OTV
B. VXLANEVPN
C. EoMPLS
D. FabricPath
Answer: (SHOW ANSWER)

NEW QUESTION: 48
An engineer Installs a B-Series server in a Cisco UCS chassis that contains a pair of UCS-IOM-2208XP I/O modules. The full bandwidth of the I/O module must be utilized. Which two elements should be used in this environment? (Choose two.)
A. eight twinax cables from each I/O module to each fabric interconnect
B. four twinax cables from each I/O module to each fabric Interconnect
C. Cisco UCS VIC 1225
D. Cisco UCS M81KR
E. Cisco UCS VIC 1280
Answer: (SHOW ANSWER)
2208 has 8 uplinks. VIC 1225 only works on C-Series UCS. M81KR has only 2x10G ports. VIC 1280 has
8x10G ports.

NEW QUESTION: 49
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. DCNM to manage both fabrics
C. multicast group
D. NX-OS version
Answer: (SHOW ANSWER)

NEW QUESTION: 50



freecram.net

Refer to the exhibit. An engineer builds a data center network design using EVPN technology. Within the design, the fabric acts as a gateway. Traffic from host X to host Y must pass through the Cisco ASA firewall for deep packet inspection and increased security. Which firewall deployment must the engineer choose to accomplish this goal?

A. VRF sandwich
B. routed mode
C. VLAN stitching
Answer: (SHOW ANSWER)

NEW QUESTION: 51
An engineer must implement an iSCSI storage connectivity in the existing Cisco UCS environment. The environment is based on Cisco UCS #-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. hardware iSCSI NIC
B. software iSCSI adapter
C. uplink pinning
D. storage binding
E. system VLAN
Answer: (SHOW ANSWER)

NEW QUESTION: 52
Refer to the exhibit. An engineer needs a solution to extend Fibre Channel traffic between multiple sites. The IPsec tunnels must be used to encrypt and secure the traffic. Which technology must be selected to meet these requirements?
A. iSCSI
B. FCoE
C. FCIP
D. VXLAN
Answer: (SHOW ANSWER)

NEW QUESTION: 53
A network engineer is configuring an Ethernet Adapter Policy for a server in Cisco UCS. The CPU must process all large TCP packets, and network receive processing must be distributed across available processors whenever possible. How must the policy be configured?
A. Enable TCP Large Receive Offload and enable Receive Side Scaling.
B. Disable TCP Large Receive Offload and disable Receive Side Scaling.
C. Enable TCP Large Receive Offload and disable Receive Side Scaling.
D. Disable TCP Large Receive Offload and enable Receive Side Scaling.
Answer: (SHOW ANSWER)
The two requirements map independently to the two Ethernet Adapter Policy controls. Cisco documents that when TCP Large Receive Offload is disabled, the CPU processes the large packets. When it is enabled, adapter hardware reassembles segmented TCP packets before sending them to the CPU, reducing CPU work and potentially increasing inbound throughput. Because the question explicitly requires the CPU to perform that processing, TCP Large Receive Offload must be disabled. Receive Side Scaling serves a different purpose. RSS distributes network receive processing across multiple CPUs or cores in a multiprocessor system instead of assigning all receive work to a single processor. Cisco's VIC tuning guidance explains that RSS spreads traffic across receive queues and permits different queues to be processed by different CPU cores, improving throughput and preventing one processor from becoming the receive bottleneck. Therefore, RSS must be enabled to satisfy the second requirement. Option A incorrectly offloads large-packet reassembly to hardware. Option B leaves receive processing concentrated on one processor. Option C both offloads the large packets and disables the required CPU distribution. Only Option D preserves CPU processing of large TCP packets while enabling multi-processor receive scaling. Queue counts, completion queues, interrupt settings, and MSI-X mode must also be sized correctly in an implementation, but those parameters do not change the required enabled/disabled states asked for here. Cisco UCS Manager Ethernet Adapter Policy fields

NEW QUESTION: 54
An engineer deploys a Cisco UCS environment with the storage array directly attached to the Fabric Interconnects. The operations team mandates that the solution must not require the configuration of Fibre Channel zoning. Which configuration set meets these requirements?
A. Storage facing port type: FCoE storage portFabric interconnect FC mode: End-host
B. Storage lacing port type: Uplink portFabric interconnect FC mode: End-host
C. Storage facing port type: Appliance portFabric interconnect FC mode: Switching
D. Storage facing port type: Storage portFabric interconnect FC mode: Switching
Answer: (SHOW ANSWER)

NEW QUESTION: 55
What are two functions of a Network Services Orchestrator in an NFV environment? (Choose two.)
A. It operates at the resource-facing services layer and provides overall lifecycle management at the network service level.
B. It provides an API-based northbound interface for transparent integration with systems that operate at the resource-facing services layer.
C. It provides a standards-based southbound interface for transparent integration with systems that operate at the customer-facing services layer.

D. It provides a standards-based northbound interface for transparent integration with systems that operate at the customer-facing services layer.
E. It operates at the customer-facing services layer and provides the management interface for the virtual network devices.
Answer: (SHOW ANSWER)
Reference: https://www.cisco.com/c/en/us/td/docs/net_mgmt/msx/3_4/solution_overview/ Cisco_VMS_Sol_Overview.pdf

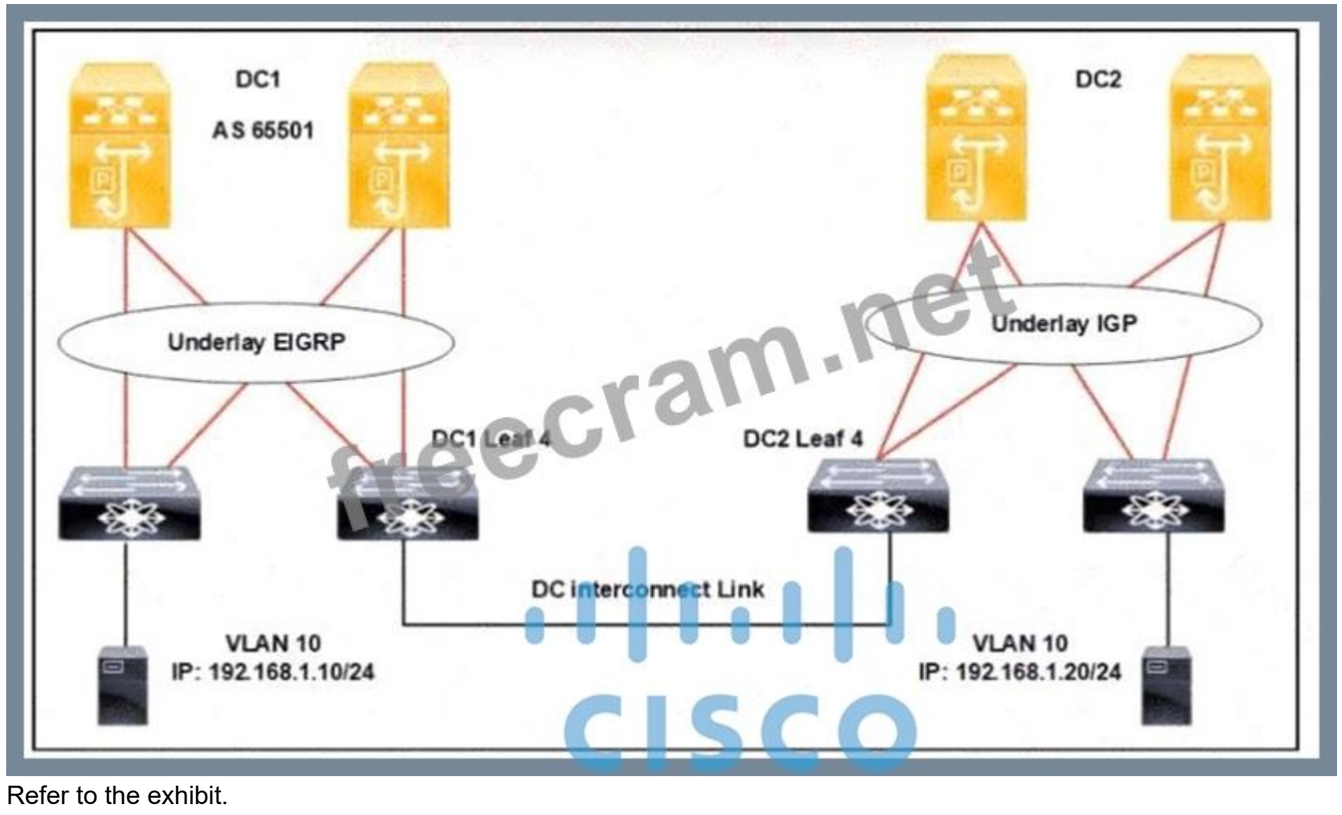
NEW QUESTION: 56
An engineer must design a DNS service available to multiple network zones as a shared service. The network zones are deployed as VRFs within the data center network and no firewall is available for communication between VRFs.
Which protocol is needed to implement the shared services?
A. OSPF
B. ISIS
C. BGP
D. VXLAN
Answer: D (LEAVE A REPLY)

NEW QUESTION: 57
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. Netmiko
C. Nornir
D. ncciient
Answer: (SHOW ANSWER)

NEW QUESTION: 58
An engineer is deploying a Fabric Interconnect within a data center SAN over a Fiber Channel link in end-host mode. The hosts are connected through multiple vHBAs, each of which has been hard-pinned to a specific Fibre Channel uplink. What happens to the vHBAs if the Fibre Channel uplink port fails?
A. The vHBAs go down and remain down until the fabric interconnect mode is changed to switch mode.
B. The vHBAs remain operational because SAN pin groups are ignored in end host mode.
C. The system performs repinning to an active uplink, and the vHBAs remain operational.
D. The vHBAs go down and remain down until the uplink is restored because the system cannot perform repinning.
Answer: (SHOW ANSWER)

NEW QUESTION: 59
An engineer must design a solution with storage reachability between too physical servers and a storage array.
The storage array connectivity is to a SAN switch that Is limited to 46 ports. Which topology meets the requirements without adding more MOS switches?
A. VXLANs between the servers and the ToR switches that passes the FCoE traffic to the MDS switches
B. FCoE between the servers and the ToR switches that passes the Ffcee Channel traffic to the MDS switches
C. FCIP between me servers and Lite ToR switches that passes the Fibre Channel traffic to the MOS switches
D. ISCSI between the servers and the ToR switches that passes the FCoE traffic to the MDS switches
Answer: (SHOW ANSWER)

NEW QUESTION: 60



freecram.net

Refer to the exhibit.
The data center DC1 uses VXLAN technology The company asked a service provider to design another data center called DC2 and stretch EVPN information between the data centers based on the same technology The fabric requires
*endpoint information propagated end-to-end across both data centers
*misconfiguration replicated from DC1 to DC2
Which actions must the design include in DC2 to meet these criteria?
Refer to the exhibit The data center DC1 uses VXLAN technology The company asked a service provider to design another data center called DC2 and stretch EVPN information between the data centers based on the same technology The fabric requires
*endpoint information propagated end-to-end across both data centers
*misconfiguration replicated from DC1 to DC2
Which actions must the design include in DC2 to meet these criteria?
A. * Set BGP AS to 65500* Configure IGRP as an underlay IGP
B. * Set BGP AS to 65501* Configure RIP as an underlay IGP
C. * Set BGP AS to 65501* Configure EIGRP as an underlay IGP
D. * Set BGP AS to 65500* Configure RIP as an underlay IGP
Answer: (SHOW ANSWER)

NEW QUESTION: 61

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

A. Static Pinning and UCS Fabric Interconnect in Fibre Channel End Host Mode
B. Dynamic Pinning and UCS Fabric Interconnect in Fibre Channel Switching Mode
C. Dynamic Pinning and UCS Fabric Interconnect in Fibre Channel End Host Mode
D. Static Pinning and UCS Fabric Interconnect in Fibre Channel Switching Mode
Answer: (SHOW ANSWER)

Valid 300-610 Dumps shared by EduDump.com for Helping Passing 300-610 Exam! EduDump.com now offer the **newest 300-610 exam dumps**, the EduDump.com 300-610 exam **questions have been updated** and **answers have been corrected** get the **newest** EduDump.com 300-610 dumps with Test Engine here: https://www.edudump.com/exams/Cisco/300-610/premium/ (**350** Q&As Dumps, **35%OFF Special Discount Code: freecram**)

NEW QUESTION: 62
To help automate the vHBA configuration process, a network engineer is configuring vHBA template pairs on UCS. The engineer is creating primary and secondary templates to define how vHBAs on a server connect to the SAN. Which fact about the template pair should the engineer consider for its potential impact on service?

A. The description configuration will be shared between the two templates.
B. The WWPN pool configuration will not be shared between the two templates.
C. The fabric ID configuration will be shared between the two templates.
D. The QoS policy configuration will not be shared between the two templates.
Answer: (SHOW ANSWER)

NEW QUESTION: 63
A network engineer must create a Fibre Channel fabric QoS design for an existing data center. The solution must provide relative bandwidth guarantees to application traffic, control latency, and prioritize application traffic.
Which mechanism must be deployed to support these requirements?

A. traffic remarking
B. traffic shaping
C. traffic policing
D. traffic classification
Answer: (SHOW ANSWER)

NEW QUESTION: 64
An engineer is implementing a Cisco UCS environment. The system must aggregate all vNICs into a single policy and consistently enforce node disassociation across the cluster. Which two UCS policies meet these requirements? (Choose two.)

A. LAN connectivity policy
B. scrub policy
C. firmware policy
D. vNIC policy

E. boot policy
Answer: (SHOW ANSWER)

NEW QUESTION: 65
A network engineer must design a data center network with four Cisco Nexus 7706 switches. The switches will be installed in primary and secondary data centers in vPC domains. The two data centers must be connected via Layer 2 links and provide the maximum throughput, redundancy, and avoid port-blocking spanning-tree design.
Which deployment model meets these requirements?
A. single-sided single vPC
B. dual-sided single vPC
C. dual-sided dual vPC
D. single-sided dual vPC
Answer: (SHOW ANSWER)

NEW QUESTION: 66
An engineer must deploy a Cisco HyperFlex system at two data centers. For redundancy reasons, the setup must achieve data protection in case of an entire site failure. The data must be available on both sites at all times to keep the recovery time objective to a minimum.
Which Cisco HyperFlex deployment model meets these requirements?
A. ROBO cluster
B. stretched cluster
C. standard with eight nodes
D. edge with four nodes or more
Answer: (SHOW ANSWER)

NEW QUESTION: 67
Which feature provides a sandbox to convert NX-OS CLI commands to REST-based scripts on Cisco Nexus 7700 Series Switches?
A. NX-API
B. Postman
C. Bash shell
D. Guest shell
Answer: (SHOW ANSWER)

NEW QUESTION: 68
Which protocol prevents fiber failures from causing a Layer 2 loop in a dark fiber DCI?
A. UDLD
B. MCP
C. LLDP
D. BFD
Answer: (SHOW ANSWER)

NEW QUESTION: 69

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 tetration
B. Cisco intersight
C. Cisco data center network manager
D. Cisco UCS director
Answer: (SHOW ANSWER)

NEW QUESTION: 70

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

Freecram.net

A. Fibre Channel end-host mode, and ports as Fibre Channel storage port
B. Ftore Channel switching mode, and ports as Fibre Channel storage port
C. Fibre Channel switching mode, and ports as Fibre Channel uplink port
D. Fibre Channel end-host mode, and ports as Fibre Channel uplink port
Answer: (SHOW ANSWER)

NEW QUESTION: 71

What is a design consideration when implementing FSPF?

A. Routes are based on the domain ID.
B. Routes are based on the distance vector protocol.
C. FSPF runs only on F Ports.
D. FSPF runs on a per-chassis basis.
Answer: (SHOW ANSWER)
Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_0/configuration/guides/ fabric/nxos/cli_fabric/fspf.html

NEW QUESTION: 72

Which programming model is vendor-agnostic and combines operational and configuration data in the same container?

A. OpenConfig
B. native YANG
C. IETF
D. open YANG
Answer: (SHOW ANSWER)

NEW QUESTION: 73

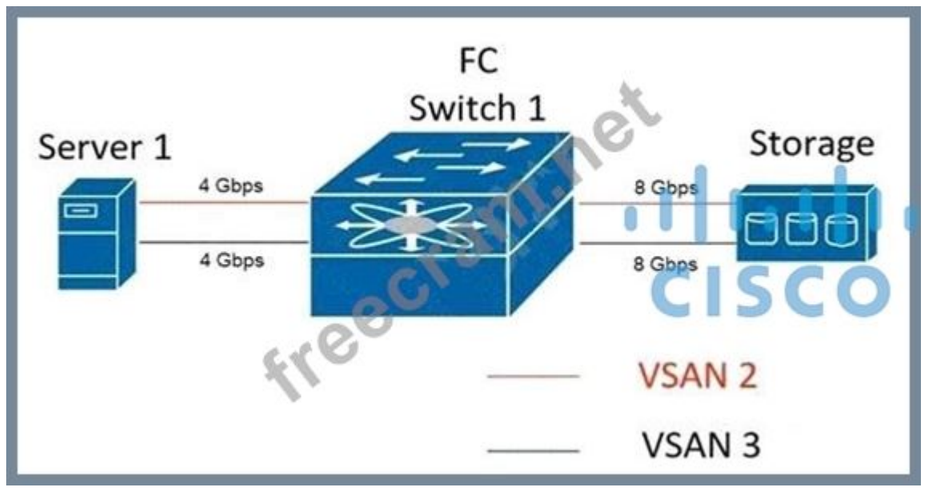
Refer to the exhibit.
A default route must be advertised into the VXLAN fabric for internet access. The engineer must use a static route because the edge firewall does not support any dynamic routing protocol. Which two features must the engineer use to allow learning and withdrawing of the default route without any manual intervention?
(Choose two)

A. policy-based routing
B. HMM tracking
C. IP forwarding
D. anycast gateway
E. Network Address Translation
Answer: (SHOW ANSWER)

NEW QUESTION: 74
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. Configure data destaging and deduplication
B. Implement a replication factor of four.
C. Create multiple datastores for storage of VM.
D. Enable logical availability zones.
Answer: (SHOW ANSWER)

NEW QUESTION: 75
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)
Reference: https://www.iol.unh.edu/sites/default/files/knowledgebase/10gec/10GbE_Cl49.pdf

NEW QUESTION: 76
Refer to the exhibit.



Server 1 fails to connect to the storage array over the Storage Area Network (SAN) of the Cisco NDS 9000 Series Switch. The requirements are to redesign the storage network and keep these considerations in mind:
The traffic from each of the server must be redundant and isolated.
The design must tolerate hardware and software failures and upgrades of SAN fabric devices.
Which action must be taken to meet these requirements?
A. Place an additional Fibre Channel switch to create two physically independent storage fabrics.
B. Create a SAN port channel that faces the storage device to sustain a link failure.
C. Add an additional supervisor to the Fibre Channel switch to support nondisruptive upgrades.
D. Enable NPV and F-Port-channel on ports that face Server 1 on the Fibre Channel switch to create redundant paths.
Answer: (SHOW ANSWER)

Valid 300-610 Dumps shared by EduDump.com for Helping Passing 300-610 Exam! EduDump.com now offer the **newest 300-610 exam dumps**, the EduDump.com 300-610 exam **questions have been updated** and **answers have been corrected** get the **newest** EduDump.com 300-610 dumps with Test Engine here: https://www.edudump.com/exams/Cisco/300-610/premium/ (**350** Q&As Dumps, **35%OFF Special Discount Code: freecram**)

NEW QUESTION: 77
Which statement describes differences between training and inference in AI learning models?
A. The training process is more computationally demanding because it processes new data.
B. The inference process requires continuous model adjustments to maintain accuracy with new data.
C. The training process is more optimized for low latency, which enables faster analysis of large datasets.
D. The inference process requires high throughput to enable rapid training on large datasets.
Answer: (SHOW ANSWER)

NEW QUESTION: 78
A customer is implementing a business continuity solution for the current data centers. The new location must mitigate the impact of a disaster in any existing data centers by providing an acceptable level of service. The solution must support:

- fully segregated Layer 2 and 3 fault domains
- low or no human intervention for service restoration
- medium to high RPCVRTO for a subset of applications
- asynchronous storage replication for application data

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

A. cold infrastructure facility with basic infrastructure
B. identical infrastructure facility ready to provide service
C. mirrored inactive infrastructure facility with fully stretched resources
D. partially equipped infrastructure faculty for on-demand activation
Answer: (SHOW ANSWER)

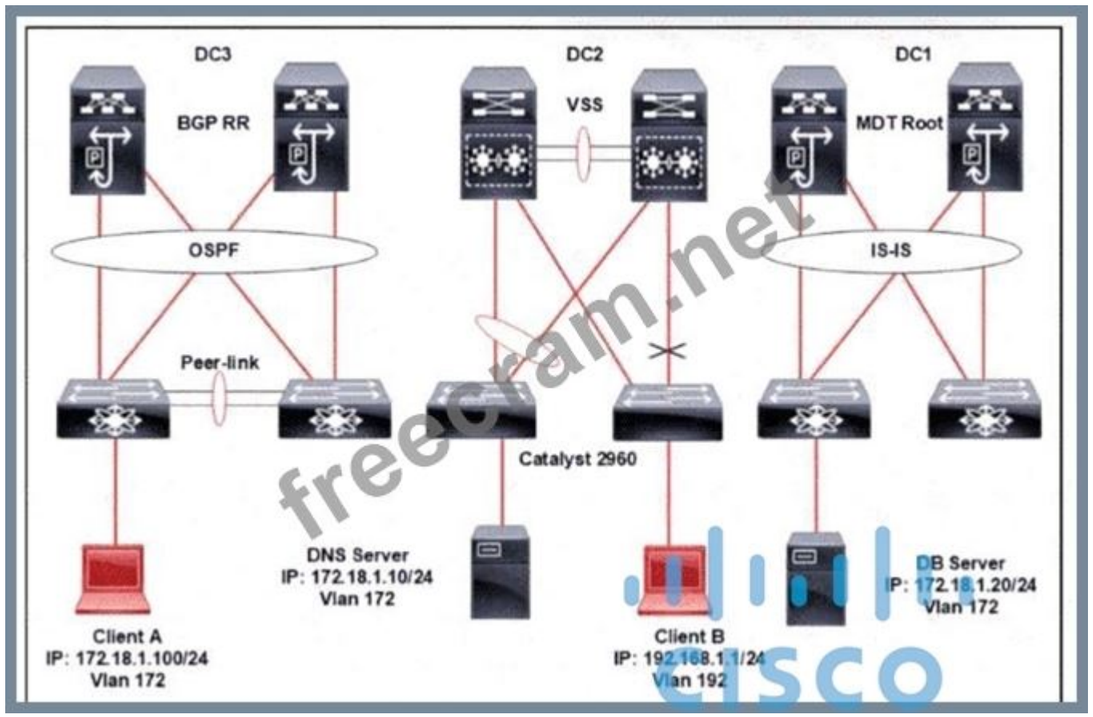
NEW QUESTION: 79
What can be implemented on Cisco Nexus 5600 Series Switches for link redundancy within a Fibre Channel fabric?
A. vPC+
B. LACP port channel
C. SAN port channel
D. E-Trunk
Answer: (SHOW ANSWER)

NEW QUESTION: 80
An engineer must connect a storage array directly to an existing Cisco UCS Fabric Interconnect. The customer requires a solution that provides IP-based storage that does not need to be connected through an external switch Also, the operations team wants to have the ability to have direct access to the files stored on the storage array from their Linux hosts. Which storage technology meets these requirements?

Freecram.net

A. FCoE
B. NAS
C. SCSI
D. SAN
Answer: (SHOW ANSWER)

NEW QUESTION: 81



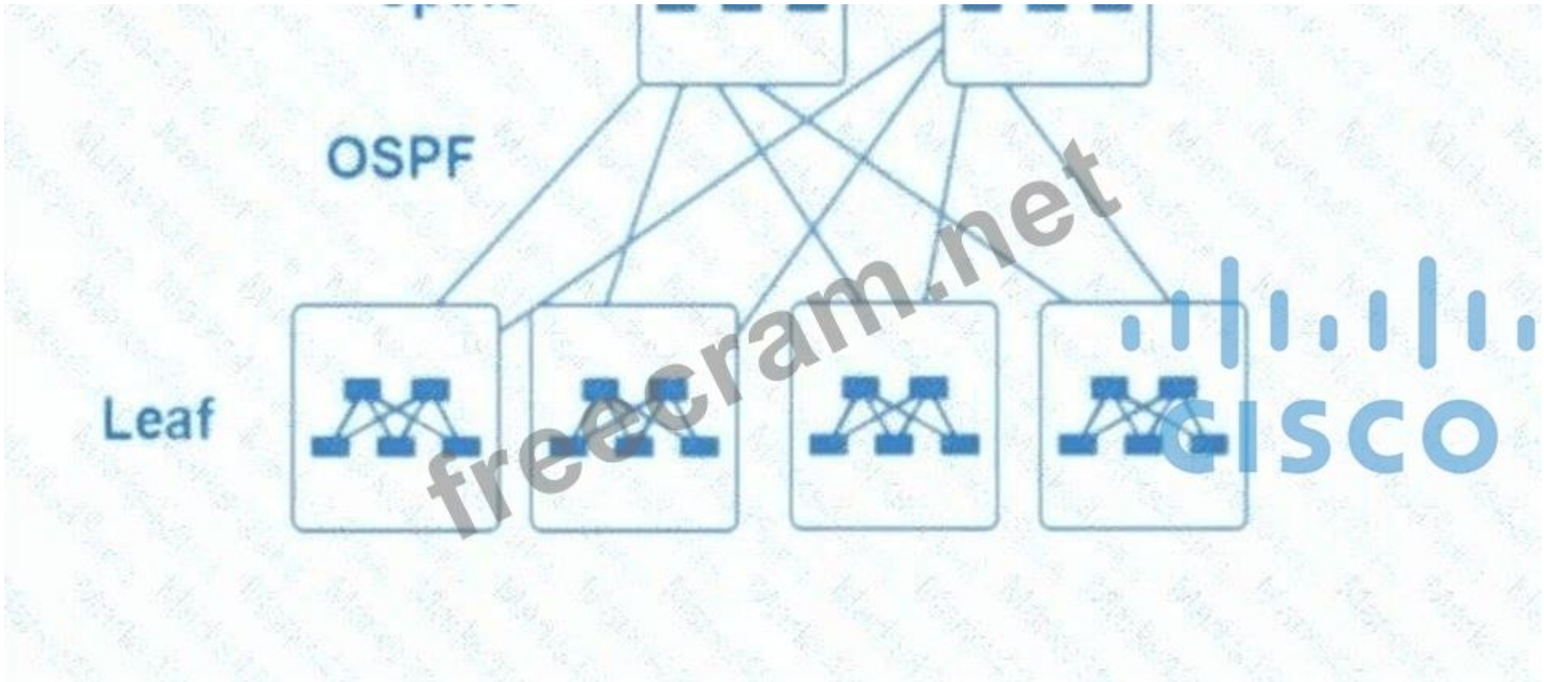
Refer to the exhibit. A company has three data centers based on different network technologies. The company must provide Layer 2 and Layer 3 connectivity among the sites with these requirements:
VLAN 172 must be extended as shown.
Client A must be able to access the database server.
Client B must be able to communicate with Client A.
Which solution meets the requirements?

A. Back-to-back vPC
B. VXLAN EVPN
C. Dark fibre
D. OTV

Answer: (SHOW ANSWER)

Overlay Transport Virtualization is the appropriate DCI technology for this mixed three-site environment.
Cisco OTV is a MAC-in-IP overlay designed specifically to extend selected Layer 2 broadcast domains across an IP transport. It requires IP reachability between OTV edge devices but does not require the internal switching technology to be identical at every site. That property is central here because the exhibit combines different campus and data-center designs, including vPC, VSS, and a FabricPath-style domain. Extending VLAN 172 through OTV preserves Layer 2 adjacency between Client A and the database server, while each site can retain its existing internal control plane. Inter-subnet communication from Client B in VLAN 192 to Client A in VLAN 172 continues through the local and DCI Layer 3 routing design; OTV supplies the required extension for the shared VLAN rather than replacing routing. A back-to-back vPC is a local multichassis port-channel construct and is unsuitable as a three-site DCI architecture. Dark fibre is only physical transport; by itself it supplies neither a scalable overlay control plane nor selective VLAN extension.
VXLAN EVPN can provide modern Layer 2 and Layer 3 overlays, but deploying it end to end would require compatible VTEP and EVPN integration across the disparate legacy domains shown. OTV is built to bridge those heterogeneous sites over their existing routed connectivity. Cisco OTV data-center interconnect design guide

NEW QUESTION: 82
Refer to the exhibit.



freecram.net

Fiber links are provisioned directly between the spine and leaf switches in the given LAN topology A/30 prefix has been configured over each fiber link to provide underlay connectivity for a VXLAN network. The network-engineering team must update the network configuration to provide the shortest possible convergence time if a fiber link is cut. Which action must the team take to meet the requirement?

A. Configure ECMP on the /30 links
B. Enable UDLD on the GO links
C. Enable BFD on the/30 links
D. Configure the /30 links as OSPF point-to-point networks
Answer: (SHOW ANSWER)

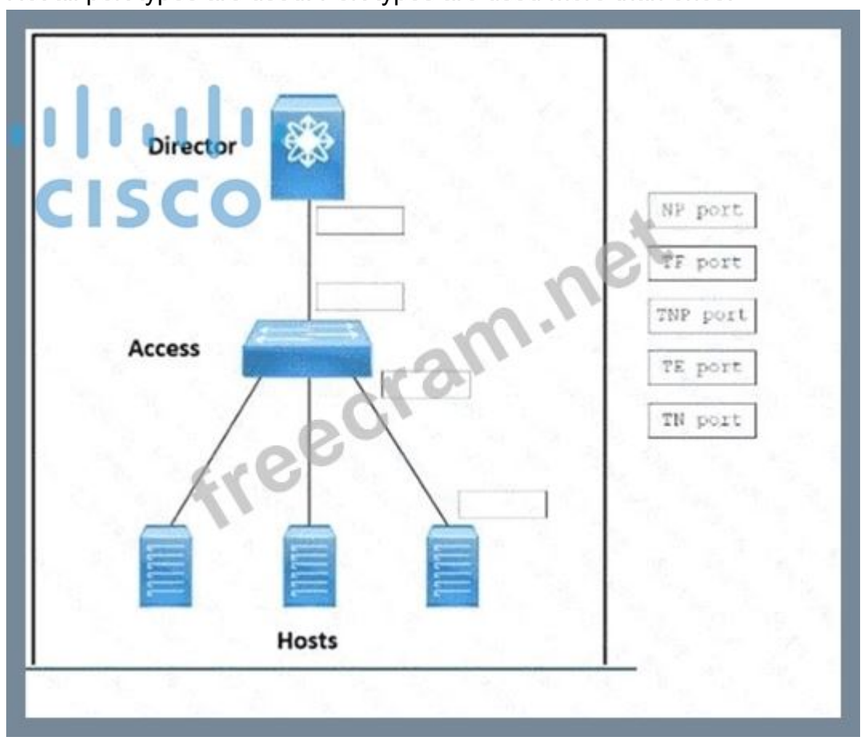
NEW QUESTION: 83
Which two paths are provided by deploying an OOB management network in a data center that uses Cisco Nexus switches? (Choose two.)
A. Layer 2 for a vPC peer link
B. Layer 3 for server traffic
C. Layer 2 for server traffic
D. Layer 3 for monitoring purposes
E. Layer 3 for vPC keepalive packets
Answer: D,E (LEAVE A REPLY)

NEW QUESTION: 84
A network engineer must perform a VMM integration for the VMWare vCenter platform with the Cisco ACI Fabric. The vCenter is already installed in one of the rack servers connected to ACI leaf switches in a vPC mode. Which type of management network must be used to integrate vCenter with ACI?
A. VLAN infra
B. In-band management
C. ARC infra

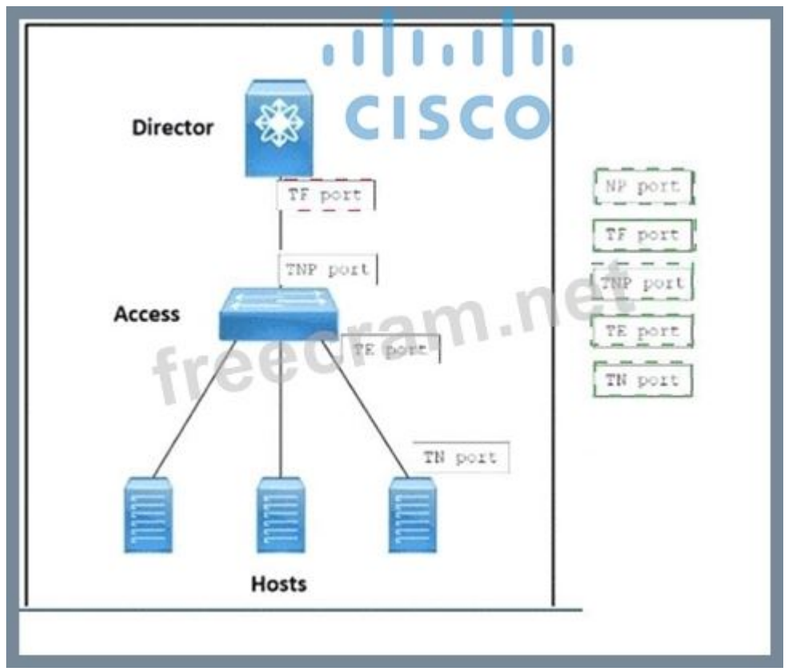
D. out-of-band management
Answer: (SHOW ANSWER)

NEW QUESTION: 85
A network consultant evaluates the Ethernet Adapter Policy configuration to be applied to the Cisco UCS blade servers. The policy must minimize latency and increase throughput for sensitive applications. The solution must increase the CPU data cache hit rate to meet these requirements Which policy is required?
A. ARFS
B. AIC
C. NVM-e
D. RDMA
Answer: (SHOW ANSWER)

NEW QUESTION: 86
A customer is deploying a SAN based on Cisco MDS 9000 Series Switches. Each Inter-Switch Link must carry multiple VSANs at the same time. The access switch must share the same domain ID as the director switch to reduce the number of domain IDs needed in the fabric Drag and drop the operational port types from the right onto the boxes on the left to create a topology that meets these requirements. Not all port types are used. Port types are used more than once.



Answer:



NEW QUESTION: 87
An engineer is designing a Multichassis EtherChannel topology in which two switches must appear as a single device to a third downstream switch? Which two technologies meet this requirement? (Choose two.)
A. HSRP
B. VSS
C. vPC
D. 802.1q
E. FEX
Answer: (SHOW ANSWER)
Reference: https://www.cisco.com/c/dam/en/us/products/collateral/switches/nexus-7000-series-switches/C07-572835-00_NX-OS_vPC_DG.pdf

NEW QUESTION: 88
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)
Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/DCNM_OLH/SAN_Client/fmhelp/ fmc.html#34479

NEW QUESTION: 89

A company's data center is currently running on a traditional SAN architecture with Cisco UCS C200 M5 Blade Servers, producing 1000 IOPS The SAN is becoming a performance bottleneck, so management decided to implement a new solution to provide better performance and scalability. The preferred solution must meet these requirements:
* Provide at least 10x the performance of the current SAN
* Provide up to 100 Gbps of throughput per node
* Be easily scalable to meet the future needs of the enterprise
Which solution must the company deploy to meet the requirements9
A. cloud-based virtual server infrastructure, which provides a scalable, easy-to-manage approach with reduced budget pressure
B. Cisco HyperFlex which provides a high-performance, scalable, and reliable hyperconverged infrastructure design
C. VMware vSAN solution, which provides storage mobility while remaining compatible with the existing Cisco UCS server infrastructure
D. ACI solution compatible with the current data center design to unlock workload mobility and provide flexible, effective scalability
Answer: (SHOW ANSWER)

NEW QUESTION: 90
Which authentication software natively runs within the CLI of Cisco NX-OS devices?
A. Chef
B. Puppet
C. Ansible
D. Python
Answer: (SHOW ANSWER)

NEW QUESTION: 91
A Cisco engineer is developing a custom application that can run natively in Cisco NX-OS on Nexus 9000 and Nexus 3000 platforms For the NX-SDK application to run the engineer enables the NX-SDK feature on the device Then the NX-SDK is imported into the application via an import nx_sdk_py statement. The engineer creates custom CLI commands and defines custom CLI command syntax within the sdkThread function When CLI commands originate from an NX-SDK application what class is this?
A. nx_sdk_pyValid-to_int
B. pyCmdhandler
C. postCliCb
D. clicm.printConsole
Answer: (SHOW ANSWER)

Valid 300-610 Dumps shared by EduDump.com for Helping Passing 300-610 Exam! EduDump.com now offer the **newest 300-610 exam dumps**, the EduDump.com 300-610 exam **questions have been updated** and **answers have been corrected** get the **newest** EduDump.com 300-610 dumps with Test Engine here: https://www.edudump.com/exams/Cisco/300-610/premium/ (**350** Q&As Dumps, **35%OFF Special Discount Code: freecram**)

NEW QUESTION: 92
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: (SHOW ANSWER)
Reference: https://community.cisco.com/t5/data-center-documents/understanding-overlay-transport- virtualization-otv/ta-p/3151502#toc-hId-1043251551

NEW QUESTION: 93
An engineer must integrate Layer 4 to Layer 7 services within Cisco ACI Fabric. The main requirement is to have a single point of configuration for network elements and firewall policies.
Which action meets these requirements?
A. Deploy the firewalls in routed mode with PBR.
B. Deploy the firewalls in transparent mode.
C. Define the service graph model as service policy mode.
D. Define the service graph model as network policy mode.
Answer: (SHOW ANSWER)

NEW QUESTION: 94
A Cisco engineer is analyzing a customer environment where dozens of VMs are running on a physical server and UCS chassis are cascaded The setup uses two ISLs in a port channel to the SAN switch (per fabric) The oversubscription from VM to physical SAN port is often 20 (VMs/host) x 72 (9 UCS chassis cascaded = 72 hosts): 2 (ISLs from fabric interconnect to SAN switch port on the NPV core (NPIV enabled switch) This results to 20 x 72 2 per single ISL = 720 VMs per ISL
20 (VMs per host) x 8 (hosts per chassis) x 9 (chassis per port channel to SAN switch) / 2 (ISLs per port channel) = 20 x 8 x 9 / 2 = 720 VMs per SAN F-port What is the best way to resolve possible IOPS bottleneck?
A. Deploy a content delivery network
B. Enable Windows 1Gb server full duplex
C. Remove data encryption on the SSD
D. Configure 802 1Qbb priority flow control
Answer: (SHOW ANSWER)

NEW QUESTION: 95
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. vNIC Template
D. storage policy
Answer: (SHOW ANSWER)

NEW QUESTION: 96
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. FHRR
B. VXLAN EVPN
C. FabricPath
D. VPLS

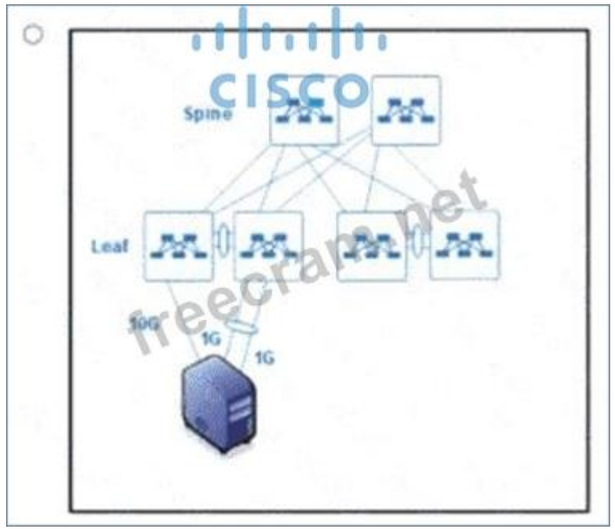
Answer: (SHOW ANSWER)

NEW QUESTION: 97
Which pools are used when a vNIC template is created in Cisco UCS Manager?
A. WWPN
B. UUID
C. MAC
D. IP
Answer: (SHOW ANSWER)
Reference: https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/ Network-Mgmt/3-1/b_UCSM_Network_Mgmt_Guide_3_1/ b_UCSM_Network_Mgmt_Guide_3_1_chapter_0111.html

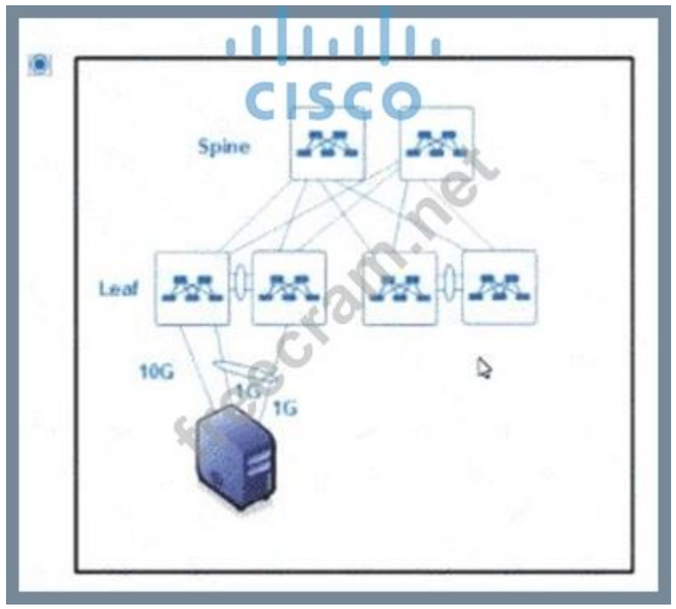
NEW QUESTION: 98
A small company hosts several critical applications on bare-metal servers connected via iSCSI protocol to shared JBOD storage. One of the critical applications is experiencing latency issues, which the engineering team suspects is due to incorrect prioritization for iSCSI traffic. An engineer must update the network QoS settings to prioritize iSCSI traffic with these requirements:
iSCSI traffic must be prioritized.
The solution must be able to differentiate between different types of iSCSI traffic.
The solution must be scalable because iSCSI traffic is expected to increase in the future.
The solution must not disrupt other traffic.
Which two configurations must the engineer apply to the devices on the network to meet the requirements?
(Choose two.)
A. policy-map QoS_Policyclass class-defaultpriority percent 100police rate 100 mbps burst 5000 packets conform-action transmit exceed-action drop
B. ip access-list extended ISCSIpermit tcp any any eq 3260
C. ip access-list extended iSCSIpermit tcp any any eq 865
D. class-map match-all ISCSImatch access-group name ISCSIpolicy-map QoS_Policyclass ISCSIpriority percent 50
Answer: B,D (LEAVE A REPLY)

NEW QUESTION: 99
A network engineer is connecting a backup server to the network shown. The server has three available physical Ethernet interfaces: two 1-Gbps interfaces and one 10-Gbps interface. All devices support virtual port channels (vPCs). The engineer must minimize backup time, eliminate any single point of failure in the server's data-center connectivity, and configure the interfaces in an active/passive arrangement. Which deployment model must the engineer use?

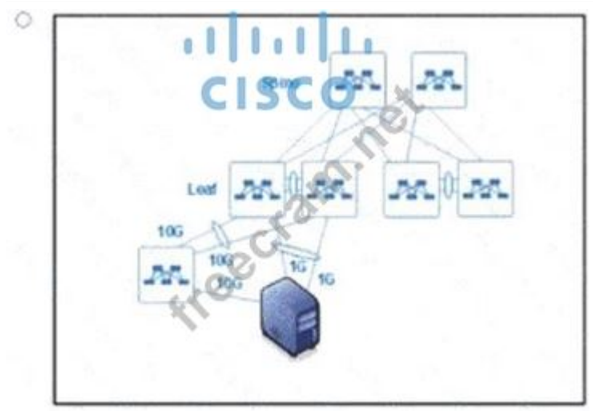
A.

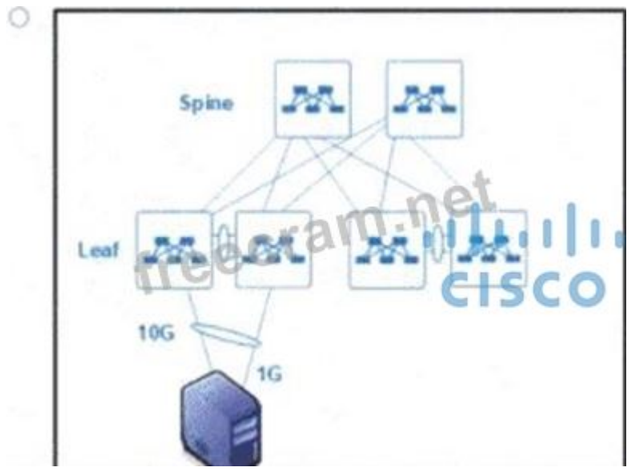

CISCO
Spine
Leaf
10G
1G
1G

B.


CISCO
Spine
Leaf
10G
1G
1G

C.


CISCO
Leaf
10G
1G
1G

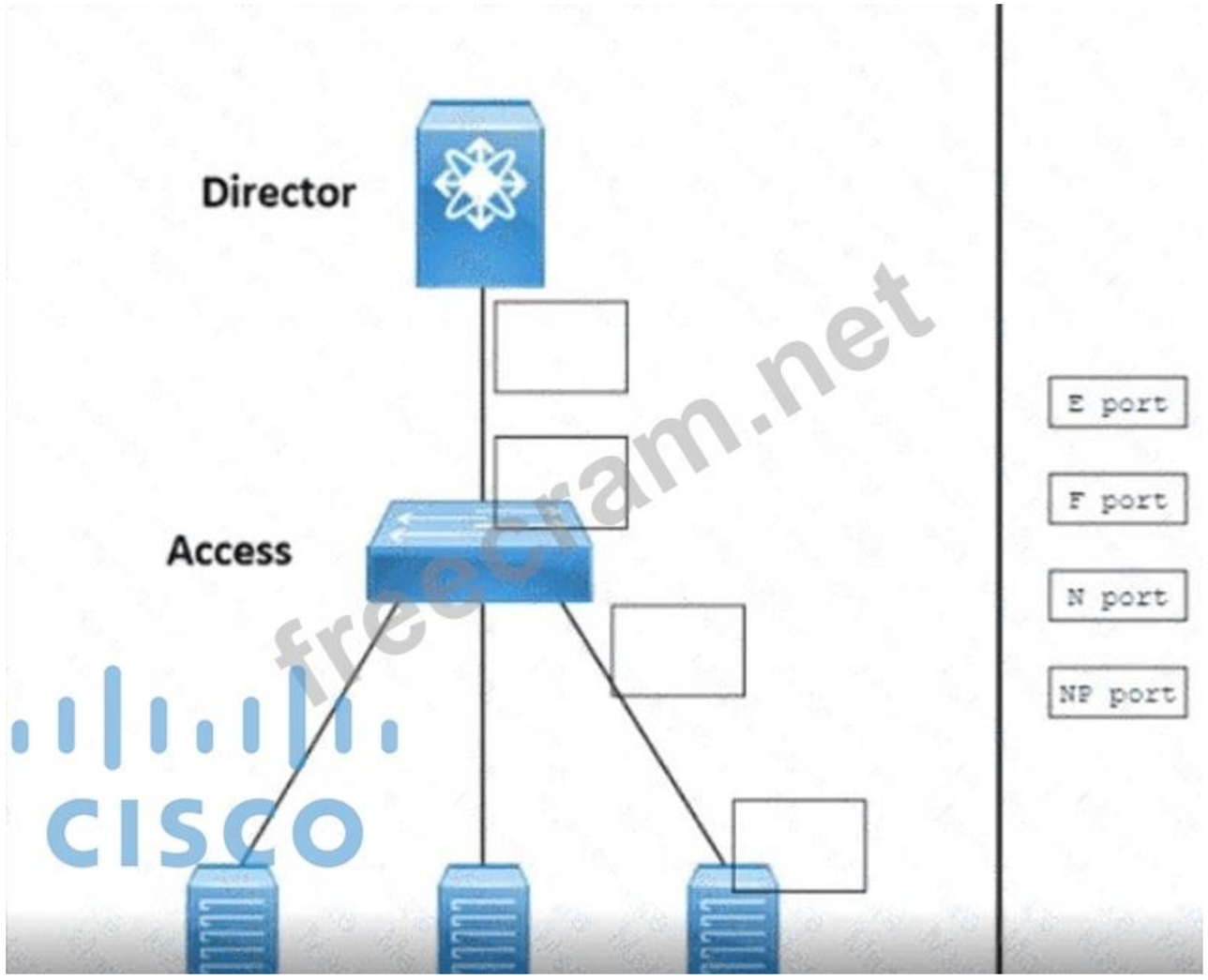
D. 

Answer: B (LEAVE A REPLY)

Option B provides the required combination of performance and failure isolation. The 10-Gbps interface is retained as the preferred active path so backup traffic uses the fastest available server link. The standby connectivity is placed across the vPC leaf pair, ensuring that failure of the active NIC, its cable, or the attached leaf does not isolate the backup server. Cisco's vPC design guidance supports dual-homed server connectivity and emphasizes fast convergence after a link or peer-device failure. It also recognizes active /standby attachment as a supported design when the host is not using an active-active port channel. The three unequal-speed interfaces should not be forced into one Ethernet port channel: member links in a port channel must have compatible operational characteristics, and combining 1-Gbps and 10-Gbps members would not create a valid, predictable bundle. Instead, host NIC teaming or bonding should select the 10-Gbps NIC as active and use a physically diverse 1-Gbps NIC as passive recovery. Option A concentrates the useful recovery connectivity in a way that leaves a leaf-level failure domain. Option C introduces an unnecessary intermediary switch, adding another device and potential failure point. Option D does not use the available interfaces in the required active/passive, speed-preferred arrangement. Thus, Option B minimizes normal backup duration while preserving an alternate path through a different vPC peer. Cisco vPC best-practices design guide

NEW QUESTION: 100

Refer to the exhibit.



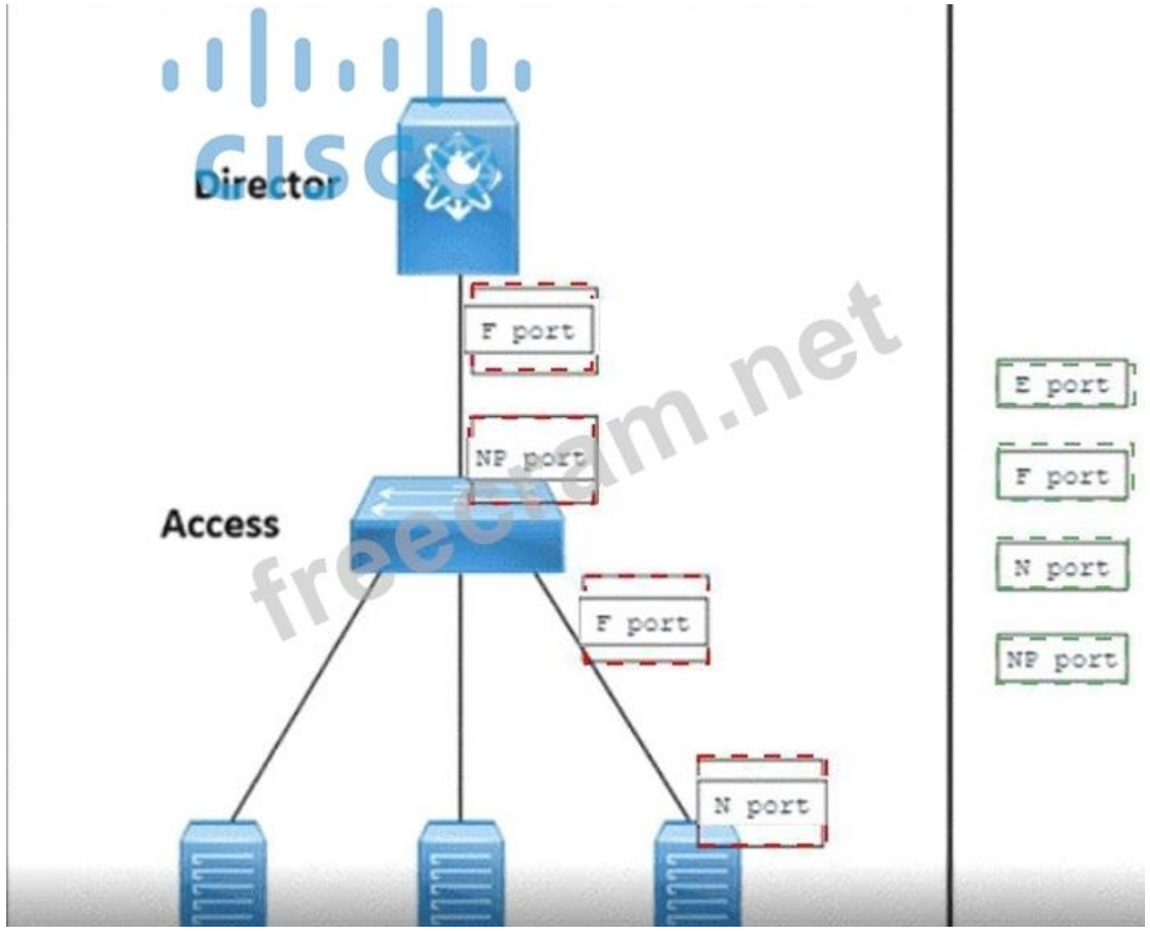
An engineer must deploy a SAN that meets these criteria:

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

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

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

Answer:



freeCram.net

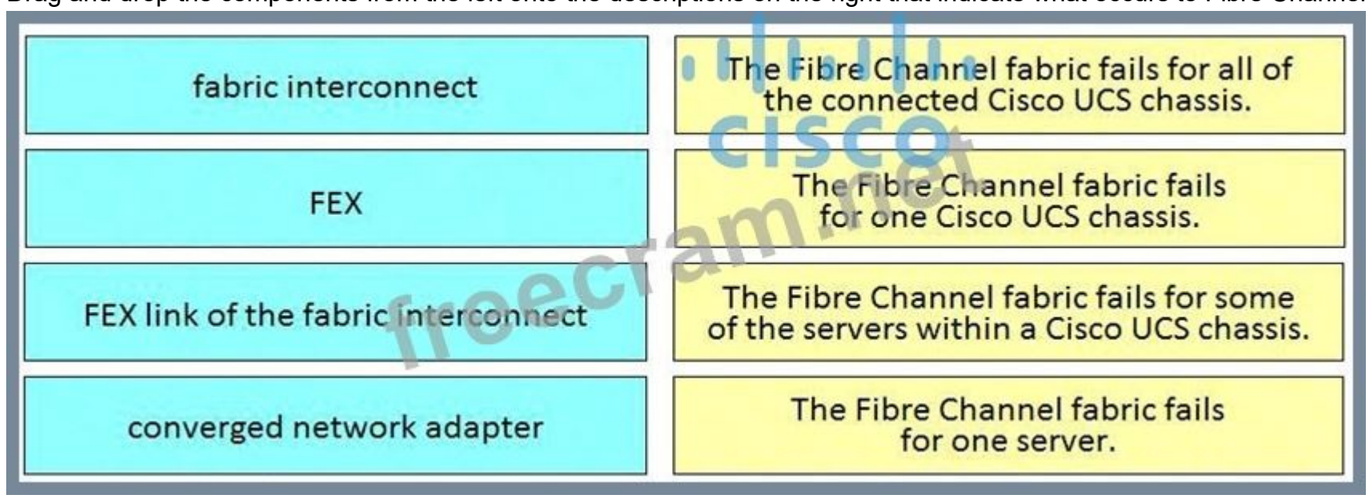
NEW QUESTION: 101
An engineer working for a private telecommunication company with an employee id 4298 53 420 must evaluate connectivity to the new data centre location based on Cisco Nexus 7000 Series Switches. The IP connectivity is already supplied by the service provider. The solution must provide a Layer 2 extension and optimize the traffic localization Which technology supports these requirements?
A. BGP over VPLS
B. OTV over IP and multicast
C. VXLAN over EoMPLS
D. IS-IS multi site over ACI
Answer: (SHOW ANSWER)

NEW QUESTION: 102
Which approach splits a pair of clustered fabric interconnects into two standalone devices?
A. Run the disable fips-mode command on each fabric interconnect.
B. Run the connect local-management command on each fabric interconnect.
C. Erase the configuration of both fabric interconnects.
D. Unplug the Layer 1 and Layer 2 interfaces between the devices.
Answer: (SHOW ANSWER)

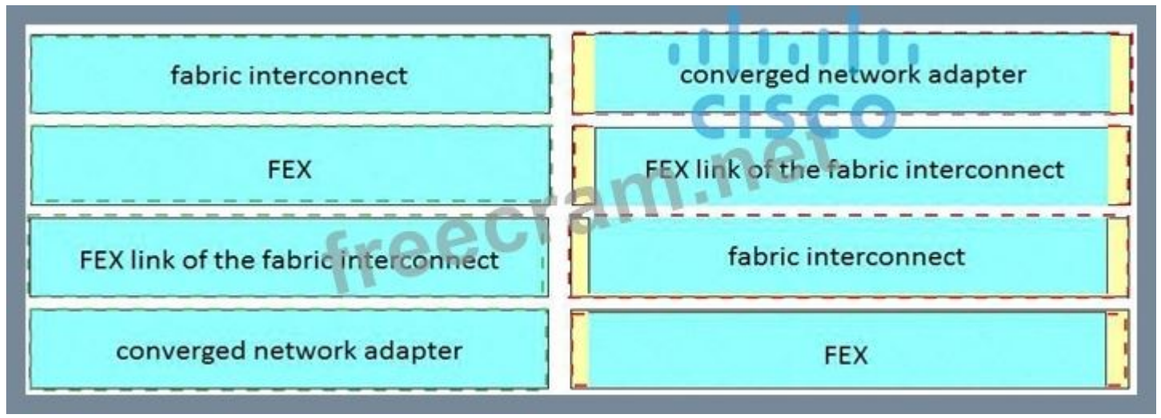
NEW QUESTION: 103
Which two configuration methods can be used to deploy QoS to Cisco MDS Series switches? (Choose two.)
A. zone-based QoS
B. multiple QoS policies that match individual devices
C. VSAN-based QoS
D. FCoE VLAN-based QoS
E. multiple QoS policies that match multiple devices
Answer: (SHOW ANSWER)
Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/7_3/configuration/qos/ cisco_mds9000_qos_config_guide/configuring_qos.html

NEW QUESTION: 104
An engineer must interconnect two data centers to support the dynamic virtual machine migration. The data centers are currently interconnected using an IPv4 network. However, the data piano encapsulation of the underlay network is expected to change next year. To meet the VM migration requirement, the solution must track MAC route changes, update all other remote devices simultaneously and prevent excessive MAC flapping with broadcast and unicast traffic loops. The company must also use networking equipment from different manufacturers to prevent vendor-locking. Which solution meets these requirements?
A. EoMPLS
B. EVPN
C. OTV
D. VXLAN
Answer: (SHOW ANSWER)

NEW QUESTION: 105
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:



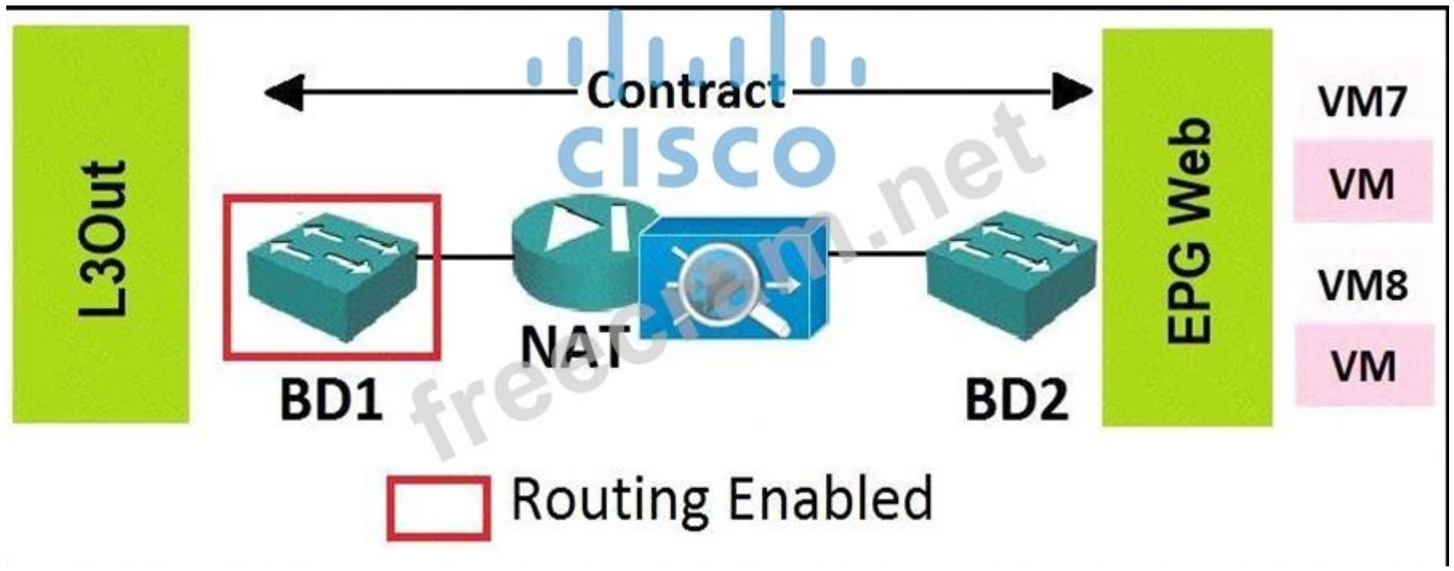
NEW QUESTION: 106
A network architect must design a large-scale Cisco SAN topology. The customer has a limited budget, so a design that provides use of resources is required. To support this requirement, the architect to share array ports, ISL, and line card bandwidth. The customer has also presented these additional considerations:
The customers plans to expand the network by 10% over the next two years.
The customer's policy requires physically separated infrastructure to support high availability.
Which solution should be used to meet these requirements?
A. Collapsed-core
B. Mesh
C. Core-edge
D. Edge-core-edge
Answer: (SHOW ANSWER)
Please review this question.

Valid 300-610 Dumps shared by EduDump.com for Helping Passing 300-610 Exam! EduDump.com now offer the **newest 300-610 exam dumps**, the EduDump.com 300-610 exam **questions have been updated** and **answers have been corrected** get the **newest** EduDump.com 300-610 dumps with Test Engine here: https://www.edudump.com/exams/Cisco/300-610/premium/ (**350** Q&As Dumps, **35%OFF Special Discount Code: freecram**)

NEW QUESTION: 107
Refer to the exhibit During a synchronization of port rotes, a device receives a proposal message on one of its ports that is selected as the new root port. The logs show that Rapid PVST+forced all other ports to synchronize with the new loot information. The engineer analyzes the port stales and concludes that the device is synchronized with superior root information received on the root port, and all other ports are synchronized. What happens to a designated port that is in the forwarding state and is not configured as an edge port, if Rapid PVST+ forces it to synchronize with new root information?
A. It discards frames switched from another port.
B. IT immediately replies with its own information.
C. It does not receive BPDUs for transmission.
D. It transitions to the Mocking state
Answer: (SHOW ANSWER)

NEW QUESTION: 108
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. linear ordered
B. cross match
C. network mesh
D. round robin
Answer: (SHOW ANSWER)

NEW QUESTION: 109
Refer to the exhibit.



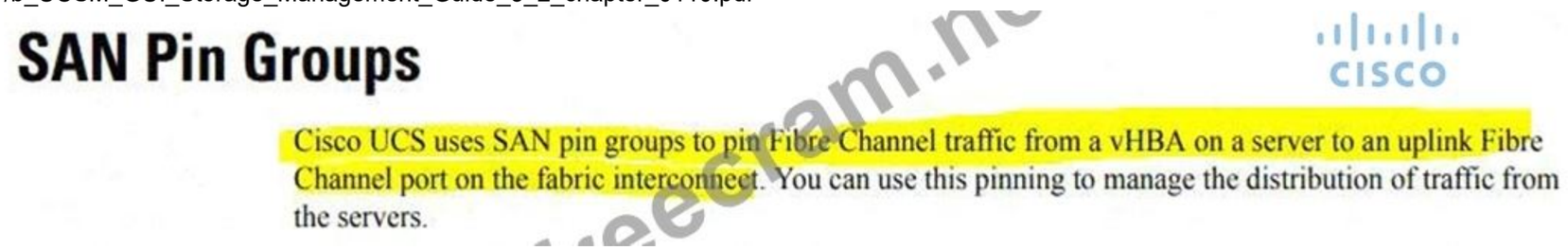
What must be the default gateway of the servers in EPG Web?
A. subnet address of L3Out
B. subnet address of BD2
C. NAT appliance
D. subnet address of BD1
Answer: (SHOW ANSWER)

NEW QUESTION: 110
The network engineering team at a large corporation operates a critical data center with stringent business requirements for network reliability and high availability. EIGRP is used as an interior routing protocol. The team is planning to implement a robust new redundancy strategy that minimizes downtime and maximizes network uptime. According to the requirements, business services can tolerate 3 seconds for failover performance. The solution must be based on RFC 2281. Which action must the team take as part of the implementation?

A. Implement HSRP to provide gateway redundancy and failover.
B. Implement GLBP to distribute traffic across multiple gateways to provide load sharing.
C. Implement EIGRP with equal-cost multipath routing to provide load balancing.
D. Implement VRRP to provide Layer 3 gateway redundancy.
Answer: (SHOW ANSWER)

NEW QUESTION: 111
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 VNI to one multicast group
C. one NVE to many multicast groups
D. many VNI to one multicast group
E. many NVE to one multicast group
Answer: (SHOW ANSWER)

NEW QUESTION: 112
A network architect proposes a distinct Fibre Channel fabric to be used for a Cisco UCS blade server that hosts critical applications. Which action should be implemented for the fibre Channel traffic from the vHBA of this service to pass through the I/O module in the Cisco chassis to a specified uplink Fibre Channel port?
A. Include a SAN pin group in the vHBA policy.
B. Update the applled Fibre Channel adapter policy.
C. Update the applled global QoS policy.
D. Enable persistent binding in the vHBA policy.
Answer: (SHOW ANSWER)
https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Storage-Mgmt
/3-2/b_UCSM_GUI_Storage_Management_Guide_3_2
/b_UCSM_GUI_Storage_Management_Guide_3_2_chapter_0110.pdf



NEW QUESTION: 113
An ACI deployment must:
Only use a proxy for border leaf switches.
Classify incoming traffic on the L3Out.
Immediately update the endpoint database when an endpoint moves between leaf switches.
Which VRF configuration must be used?

A. Ingress Policy Control enforcement; Enforce Subnet Check enabled; IP Data-plane Learning disabled
B. Enforce Subnet Check disabled; IP Data-plane Learning disabled; Ingress Policy Control enforcement
C. Ingress Policy Control enforcement; Egress Policy Control enforcement; IP Data-plane Learning enabled
D. Enforce Subnet Check enabled; IP Data-plane Learning enabled; Egress Policy Control enforcement
Answer: (SHOW ANSWER)
Comprehensive and Detailed 200 to 250 words of Explanation From Designing Cisco Data Center Infrastructure for Traditional and AI Workloads topics:
Option D is the only valid combination matching all three requirements. Enabling Enforce Subnet Check restricts endpoint IP learning to subnets configured within bridge domains associated with the VRF. It also removes inappropriate remote endpoint entries. Consequently, a border leaf without a valid remote endpoint entry forwards the traffic through the Cisco ACI spine proxy and COOP database instead of relying on stale endpoint information. Cisco recommends this control to improve endpoint-learning accuracy and reduce IP- spoofing risks. Cisco ACI Fabric Endpoint Learning White Paper Egress Policy Control enforcement places L3Out contract classification and policy enforcement primarily on the border leaf. This is required when incoming external traffic must be classified at the L3Out rather than forwarding it to a compute leaf for ingress enforcement. Cisco explains that egress enforcement keeps the external EPG classification and relevant policy rules on the border leaf. Cisco ACI Contract Guide IP Data-plane Learning must remain enabled so leaf switches learn an endpoint's source IP address from routed traffic. When the endpoint moves and transmits from another leaf, the new leaf immediately learns the updated location and advertises it to the spine COOP database. Disabling this feature would make IP movement detection dependent primarily on ARP, GARP, or other control-plane mechanisms. Cisco ACI Design Guide

NEW QUESTION: 114
A Cisco engineer is discussing a data center design scenario that consists of 24 Cisco UCS B200M6 Wade servers. 2 Cisco UCS 6454 Fabric Interconnects, and 3 Cisco UCS 5108 server chassis In the proposed configuration, the server links, which are vNICs on the blades, are associated with a single uplink port Server-to-server Layer 2 traffic is locally switched, server-to-network traffic goes out on its pinned uplink port, and each server MAC address must be learned before traffic can be forwarded to it Which feature stipulates that traffic is forwarded to a server only if it is received on a pinned uplink port for this server?
A. native VLAN tagging on both sides
B. RPF check
C. host F Port channeling
D. MAC address table visualization
Answer: (SHOW ANSWER)

NEW QUESTION: 115
An engineer must design a secondary site to prevent a catastrophic primary site failure. The applications must communicate across sites via the data link layer of the OSI model. The Layer 3 transport that is available for this solution consists of 10-Gb connections over Layer 3.
Which two solutions meet these requirements? (Choose two.)
A. OTV
B. VXLANEVPN
C. vPC
D. ISIS
E. OSPF
Answer: (SHOW ANSWER)

NEW QUESTION: 116
An engineer is configuring a Cisco UCS Service Profile template for an environment that will host Windows servers Some of the servers require access to a Fibre Channel storage network The design requires the server HBA to send the maximum number of commands to a Fibre Channel disk using a single transmission Which action must be taken to meet these requirements?
A. Decrease Link Down Timeout to 20.000

B. Set LUN Queue Depth to 240
C. Increase Max Data Field Size to 2096
D. Disable 10 Timeout Retry
Answer: (SHOW ANSWER)

NEW QUESTION: 117
Refer to the exhibit. A Cisco engineer is configuring a PBR in a Cisco ACI data center scenario and plans to insert a transparent firewall. The APIC release is 4.1. the Cisco ACI fabric is configured to be the gateway for the servers and for the PBR node, and the Layer 4/ Layer 7 devices are deployed as Layer 1/ Layer 2 mode in the physical domain. Layer 1/Layer 2 PBR node interfaces arc also configured to be in a bridge domain and not in an L30ut. What is required for the consumer and provider connectors of the Layer 1/Layer 2 device for this scenario to work?
A. They must be in different BDs.
B. Active/active symmetric PBR is requited.
C. IP-SLA Tracking is active.
D. PBR is used with Multi-Pod.
Answer: (SHOW ANSWER)

NEW QUESTION: 118
Refer to the exhibit. An engineer is configuring a QoS policy with these requirements:
- Match-all AF11 traffic and set it to a DSCP value of 14.
- The committed rate must be 10 Mbps with a committed burst rate of
1000 ms.
- Drop any AF11 traffic that violates these settings.
- Any traffic other than af11 must have a DSCP value of 0.
The given class-map configuration already exists. Which solution must the engineer use to meet the requirements?

```
class-map class_af11
 match dscp af11
 exit
policy-map type qos policy_af11
 class class_af11
 set dscp 14
 police cir 10 ms bc 1 mbs conform transmit violate drop
```

freecram.net

A.
```
policy-map type qos policy_af11
 class class-other
  match dscp 0
```

B.
```
policy-map type qos policy_af11
 class class_af11
  set dscp 0
```

C.
```
policy-map type qos policy_af11
 class class-default
  set dscp 0
```
D.
```
policy-map type qos policy_af11
 class class-af11
  match other set dscp 0
```
Answer: (SHOW ANSWER)

NEW QUESTION: 119
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: (SHOW ANSWER)

NEW QUESTION: 120
Which Ethernet to Cisco Fabric Interconnect connectivity configuration is supported when FCoE is implemented?
Freecram.net
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: (SHOW ANSWER)
Reference: https://www.cisco.com/c/en/us/support/docs/servers-unified-computing/ucs-manager/116188- configure-fcoe-00.html#anc11

NEW QUESTION: 121
An engineer deploys VMware ESXi hypervisor on blade servers. The virtual networking is managed by Cisco Nexus 1000V Series Switches.
Which configuration aligns with Cisco recommended practices for providing high availability and a maximum throughput to the VMware ESXi hosts?
A. dual vNICs with static EtherChannel link aggregation
B. dual vNICs with LACP link aggregation
C. dual vNICs with hardware fabric failover on the fabric interconnects
D. dual vNICs with MAC pinning link aggregation
Answer: (SHOW ANSWER)

Valid 300-610 Dumps shared by EduDump.com for Helping Passing 300-610 Exam! EduDump.com now offer the **newest 300-610 exam dumps**, the EduDump.com 300-610 exam **questions have been updated** and **answers have been corrected** get the **newest** EduDump.com 300-610 dumps with Test Engine here: https://www.edudump.com/exams/Cisco/300-610/premium/ (**350** Q&As Dumps, **35%OFF Special Discount Code: freecram**)

NEW QUESTION: 122
An architect is designing a storage solution for a Cisco UCS server infrastructure with these requirements:
* identical deployment of servers
* can add vHBAs to a group of servers
* configuration of servers stays synchronized
Which solution meets these requirements?
A. global adapter policy
B. service profile template
C. updating vNIC template
D. WWPN pool
Answer: (SHOW ANSWER)

NEW QUESTION: 123
A client in a commercial building Installs a Cisco blade server in the multitenant Cisco UCS blade Infrastructure. To cut operating costs me client's data center is shared with other organizations. The client asks an engineer prevent third parties from accessing their equipment and from accessing BIOS-related information when booting a server. Which Two policies must be used to meet these requirements? (Choose two.)
A. quiet boot
B. post error pause
C. ASPM support
D. CDN control
E. front panel lockout
Answer: (SHOW ANSWER)
https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Server-Mgmt
/3-2/b_Cisco_UCS_Manager_Server_Mgmt_Guide_3_2
/b_Cisco_UCS_Manager_Server_Mgmt_Guide_3_2_chapter_01110.html
Quiet boot is what the BIOS displays during booting the server. If enabled, the BIOS displays the logo screen.
I believe that quiet boot and CDN control may have the customer name.

NEW QUESTION: 124
After experiencing traffic disruptions from the failure of a single router, a customer asks an engineer to design a solution that will prevent this from occurring in the future. While examining the customer's environment, the engineer discovers that the routers are manufactured by a variety of different vendors, and they have varying amounts of CPU and memory resources. Additionally, several of the customer's applications require the ability to fine-tune the load-balancing parameters between multiple routers. Which solution should be used to meet these requirements?
A. VRRP
B. GLBP
C. FHRP
D. HSRP

Answer: (SHOW ANSWER)
Load balancing can be done by having different VRRP groups and configuring different servers with different default gateways. HSRP and GLBP are Cisco proprietary.

NEW QUESTION: 125
An engineer must design the compute portion of a data center environment. The environment includes:
* direct-attach Fibre Channel storage array with four 32 G Fibre Channel ports per controller
* Cisco UCS B-series servers equipped with Cisco UCS IOM 2408 Fabric Extenders
* Cisco 6454 Fabric Interconnects
The fabric interconnects conned to the LAN via 100G ports, the SAN via 32 G Fibre Channel ports, and the IOM 2408 via 10 G ports. Which storage connectivity strategy must the engineer choose?
A. * UCS: Qty (our 802.1q trunks from each IOM to each fabric interconnect* Storage: Qfy two Fibre Channel links from each SAN controller to each fabric Interconnect
B. * UCS: four-poll Port Channel from each IOM to each fabric interconnect* Storage; tour-port SAN- PortChannel from each SAN controller to each fabric interconnect
C. UCS ' two-port PortChannel from each IOM10 each fabric interconnect.* Storage: Qty four Fibre Channel links from each SAN controller Id each fabric interconnect.
D. * UCS; four-port back-to-baok PortChannel between IOM and fabric interconnect* Storage; two-port SAN-PortChannel from each SAN controller to each fabric interconnect
Answer: (SHOW ANSWER)

NEW QUESTION: 126
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

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.

freecram.net

NEW QUESTION: 127
Refer to the exhibit Due to power limitations at the customer data center, the engineering team must decommission one of the modular switches in the new design the customer must ensure that the OSPF process is fully protected on the remaining switch and minimize OSPF flapping in case of any module failure. Which solution fulfills the requirements for the new design?

A. routing summarization
B. LSA aging timer change
C. OSPF area separation
D. graceful restart
Answer: (SHOW ANSWER)

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)
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.

freecram.net

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.

freecram.net

NEW QUESTION: 129
A customer deploying Cisco UCS blade servers must centrally manage VLANs carried by the server interfaces. Interface properties must be updated in one location and applied to multiple servers simultaneously, including after the servers have been deployed. Which technology must the customer use?
A. Service profile templates
B. usNIC connection policies
C. Network control policies
D. vNIC templates
Answer: (SHOW ANSWER)
vNIC templates are the precise Cisco UCS mechanism for centrally defining how server vNICs connect to the LAN. A template can specify the fabric, VLAN or VLAN-group membership, MTU, QoS policy, network control policy, adapter policy, MAC-address pool, and related interface properties. Service profiles or service profile templates reference the vNIC template rather than duplicating those settings on every server. Cisco UCS Manager then applies the template-defined values to each bound vNIC. Cisco also documents that if an existing bound vNIC does not match its template, UCS Manager reconfigures it, and future changes to that vNIC must be made through the associated template. An updating vNIC template is therefore appropriate when modifications must propagate to interfaces on already deployed servers, subject to normal UCS change and reboot implications. A service profile template controls the broader server identity and policy composition, but it is not the most specific object for shared VLAN-tagging and vNIC properties. A usNIC connection policy allocates user-space NIC resources for supported applications and does not define general VLAN membership. A network control policy governs behaviors such as CDP, LLDP, MAC registration, uplink-failure handling, and related controls; it does not serve as the reusable VLAN configuration object.
Consequently, vNIC templates provide the requested single point of administration and consistent post- deployment propagation across multiple UCS blade-server interfaces. Cisco UCS Central vNIC template guide

NEW QUESTION: 130
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?

Freecram.net

A. Network
B. Uplink
C. Appliance
D. server
Answer: (SHOW ANSWER)
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

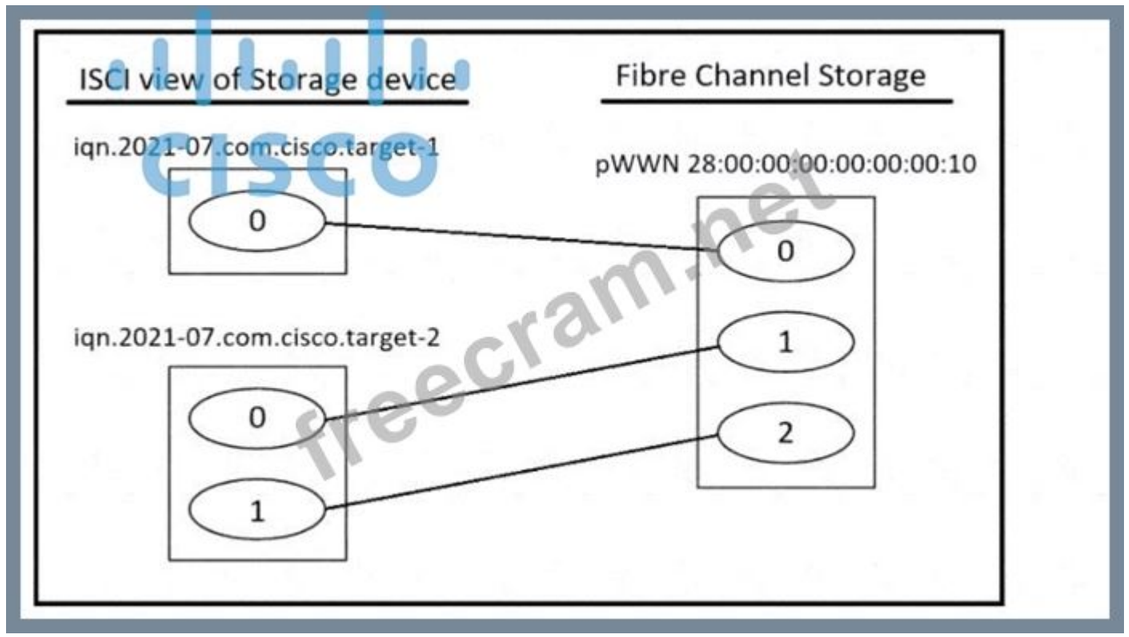
NEW QUESTION: 131
The data center aggregation layer that uses IPv4 and IPv6 address space must act as a redundant Layer 3 gateway The solution must support a minimum of 240 virtual groups for an interface The data center aggregation layer hosts network devices from different vendors Which FHRP solution meets these requirements?
A. HSRPv2
B. HSRPv1
C. VRRPV3
D. VRRPv1
Answer: C (LEAVE A REPLY)

NEW QUESTION: 132
A network architect is designing an automation strategy for a large virtualized data center to improve application deployment time. The design has these requirements:
The connection policy must determine connectivity between virtual machines and dynamic vNICs on servers equipped with Cisco VIC adapters.
Dynamic vNIC traffic must prefer fabric A while retaining failover protection.
When a virtual machine or server is migrated, the required dynamic vNIC resources must be assigned automatically.
Which configuration must the architect use?
A. Dynamic vNIC Connection Policy and Ethernet Adapter Policy
B. Static vNIC Connection Policy and Ethernet Adapter Policy
C. Custom vNIC Connection Policy and Server Profile Template
D. Standard vNIC Connection Policy and Server Profile Template
Answer: (SHOW ANSWER)
A Dynamic vNIC Connection Policy is the Cisco UCS policy specifically designed to control connectivity between virtual machines and dynamic vNICs on servers that use Cisco VIC adapters. Cisco states that this policy determines how VM-to-dynamic-vNIC connectivity is configured and that each policy includes an Ethernet Adapter Policy plus the number of dynamic vNICs available to an associated server. Its protection setting can be configured as Protected Preferred Fabric A, causing UCS to use fabric A when available and fail over to fabric B when required. The pool of dynamic vNICs enables VM-FEX to allocate virtual interfaces as virtual workloads are instantiated or moved, supporting the automation and rapid deployment objective. The referenced Ethernet Adapter Policy supplies queue, interrupt, offload, and other adapter behavior appropriate to the hypervisor and workload. A static vNIC is presented as a persistent interface to the operating system or hypervisor and does not provide the requested VM-level dynamic allocation. "Custom" and "standard" vNIC connection policies are not the defined UCS policy types that perform this VM-FEX function, and a server profile template by itself does not replace the dynamic connection policy. The solution therefore requires both parts named in Option A: the Dynamic vNIC Connection Policy to control allocation, protection, and VM connectivity, and the Ethernet Adapter Policy to define the operational characteristics of those interfaces. Cisco UCS Dynamic vNIC Connection Policy guide

NEW QUESTION: 133
Refer to the exhibit. An engineer working for a service provider with an employee ID: 4800:35-849 must perform the mapping of Fibre Channel LUN targets lo the indicated iSCSI virtual target. Which configuration shows the requited mapping?
A.

```
iscsi virtual-target name iqn.2021-07.com.cisco.target-1
pWWN 28:00:00:00:00:00:00:10 fc-lun 1 iscsi-lun 1
iscsi virtual-target name iqn.2021-07.com.cisco.target-2
pWWN 28:00:00:00:00:00:00:10 fc-lun 2 iscsi-lun 2
pWWN 28:00:00:00:00:00:00:10 fc-lun 2 iscsi-lun 1
```

B.



C.

```
iscsi virtual-target name iqn.2021-07.com.cisco.target-0
pWWN 28:00:00:00:00:00:00:10 fc-lun 0 iscsi-lun 0
iscsi virtual-target name iqn.2021-07.com.cisco.target-1
pWWN 28:00:00:00:00:00:00:10 fc-lun 1 iscsi-lun 1
pWWN 28:00:00:00:00:00:00:10 fc-lun 2 iscsi-lun 2
```

Answer: (SHOW ANSWER)

NEW QUESTION: 134
An engineer must design a multitenant solution using Cisco 7709 switches. The solution must support separate routing instances, separate spanning tree domains, and separate firewalls for each tenant. Which solution meets these requirements?
A. CFS
B. vPC
C. VDC
D. VRF
Answer: (SHOW ANSWER)

NEW QUESTION: 135
Refer to the exhibit.
A Cisco engineer is configuring Cisco Nexus 7000 Series Switches To simplify initial configuration verification and vPC+/HSRP troubleshooting, the engineer configures the primary vPC+ peer device with the FHRP active router highest priority The primary FHRP device responds to ARP requests, even though the secondary vPC+ device also forwards the data traffic Which configuration enables the Layer 3 connectivity from each vPC+ peer device?
A. Set a restore timer that delays the vPC+ restart
B. Manually configure virtual MAC addresses for any FHRP protocol
C. Ensure that the enhanced Layer 2 license has been installed.
D. Configure a VLAN network interface for the same VLAN from both devices

Answer: (SHOW ANSWER)

NEW QUESTION: 136
Which factor determines the choice of platform designing a Cisco HyperFlex infrastructure to support computer-aided design applications?
A. network speed
B. GPU support
C. storage capacity
D. processor count
Answer: C (LEAVE A REPLY)
https://www.cisco.com/c/dam/en/us/products/collateral/hyperconverged-infrastructure/hyperflex-hx-series
/whitepaper-c11-740243.pdf
https://www.cisco.com/c/dam/en/us/products/collateral/hyperconverged-infrastructure/hyperflex-hx-series/hx-220c-m5-specsheet.pdf

Valid 300-610 Dumps shared by EduDump.com for Helping Passing 300-610 Exam! EduDump.com now offer the **newest 300-610 exam dumps**, the EduDump.com 300-610 exam **questions have been updated** and **answers have been corrected** get the **newest** EduDump.com 300-610 dumps with Test Engine here: https://www.edudump.com/exams/Cisco/300-610/premium/ (**350** Q&As Dumps, **35%OFF Special Discount Code: freecram**)

NEW QUESTION: 137
In this data structure, what is the XML terminology for the currency="usd" code snippet?
<? xml version="1.0" encoding="UTF-8"?>
<ciscopress>
<book isbn="50581730795252386">
<title>Routing TCP/IP</title>
<author>Jeff Doyle</author>
<category></category>
<year>2005</year>
<edition>2</edition>
<price currency="usd">72</price>
</book>
</ciscopress>
A. root element start tag
B. character
C. attribute
D. root element end tag
Answer: (SHOW ANSWER)

NEW QUESTION: 138

A network engineer is implementing Cisco UCS manager with Cisco UCS center integration. The company is 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 profile 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: (SHOW ANSWER)

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

Valid 300-610 Dumps shared by EduDump.com for Helping Passing 300-610 Exam! EduDump.com now offer the **newest 300-610 exam dumps**, the EduDump.com 300-610 exam **questions have been updated** and **answers have been corrected** get the **newest** EduDump.com 300-610 dumps with Test Engine here: https://www.edudump.com/exams/Cisco/300-610/premium/ (**350** Q&As Dumps, **35%OFF Special Discount Code: freecram**)