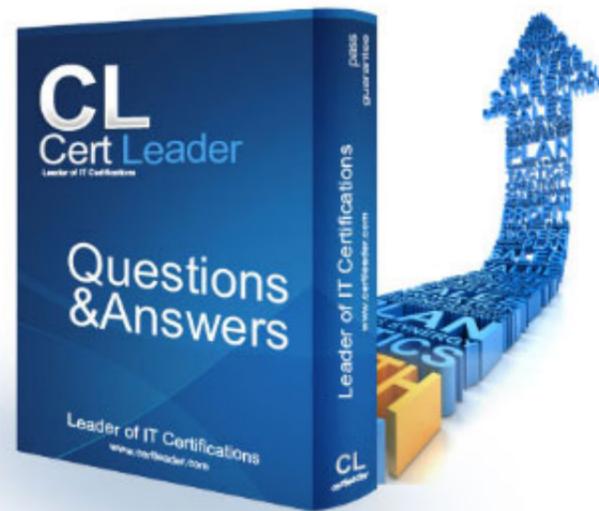


3v0-624 Dumps

VMware Certified Advanced Professional 6.5 - Data Center Virtualization Design Exam

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NEW QUESTION 1

A development team must provide layer 2 network isolation between virtual machines that are in the same VLAN. The solutions architect must provide additional security between the virtual machines on the same subnet.

How can this be done without consuming more VLANs?

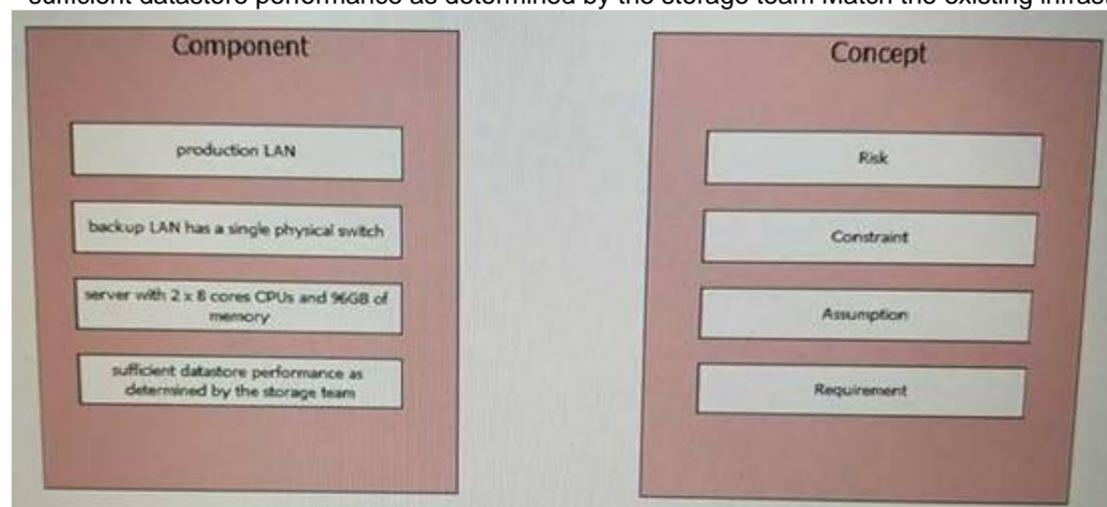
- A. Use Virtual Switch Tagging
- B. Use Private VLANs.
- C. Use Virtual Guest Tagging.
- D. Use External Switch Tagging.

Answer: B

NEW QUESTION 2

A company would like to utilize its current infrastructure but wants to adopt virtualization to consolidate its environment. Currently, the infrastructure contains:

- server with 2 x 8 cores CPUs and 96GB of memory
 - backup LAN with a single physical switch
 - production LAN
 - sufficient datastore performance as determined by the storage team
- Match the existing infrastructure component to its appropriate concept.



Answer:

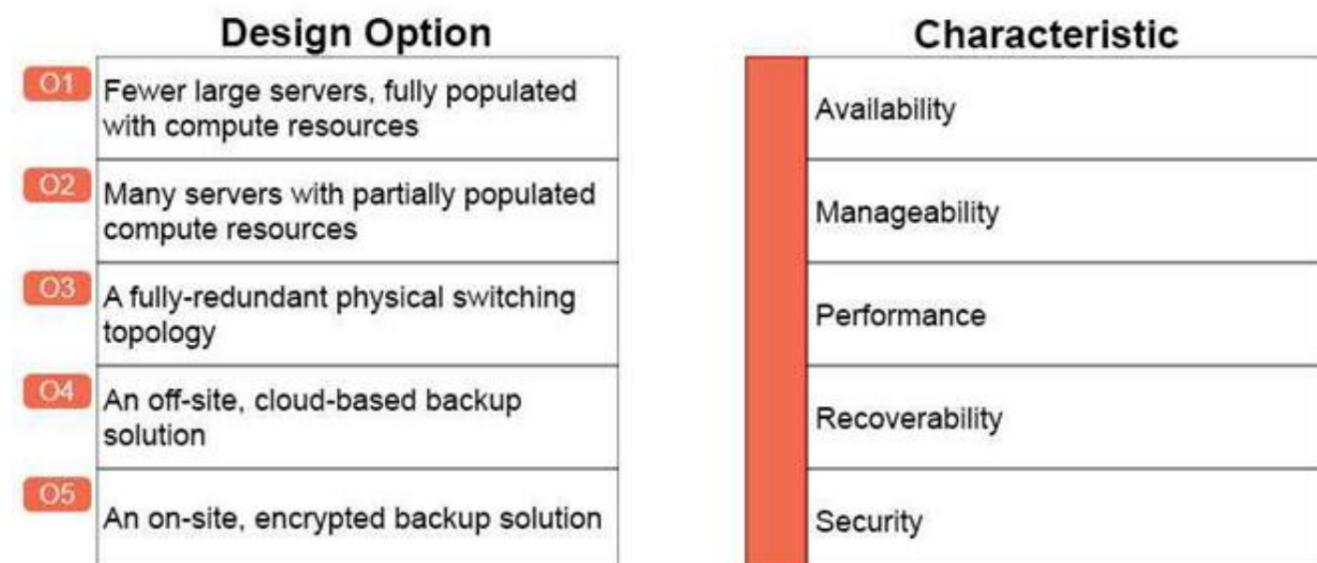
Explanation: Risk = Backup LAN has a single physical Switch
 Constraint = Server with 2x8 Core CPU with 96 GB
 Assumption = Sufficient datastore performance as determined by storage team
 Requirement = Production LAN

NEW QUESTION 3

You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization is evaluating various design options and their impact on the design. For each design option, determine the design characteristic that would be affected by utilizing the option.

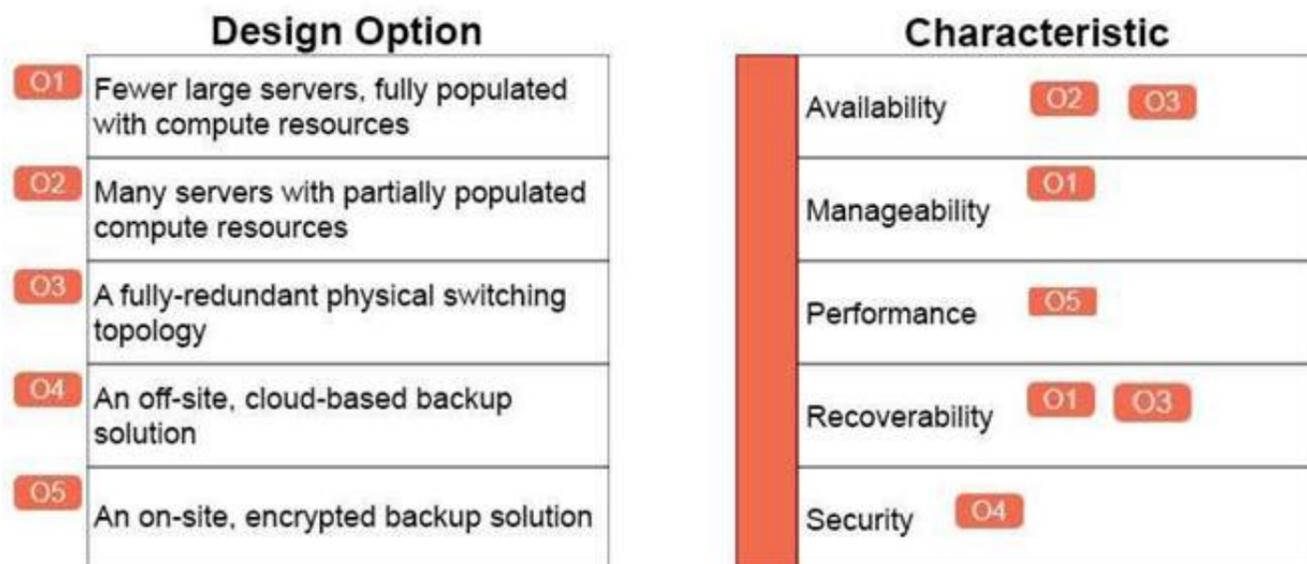
Match each Design Option on the left to the Characteristic on the right by dragging the red button (O1-O5) over the text of the appropriate Characteristic.

NOTE: Design Options can be mapped to more than one Characteristic or none at all.



Answer:

Explanation:



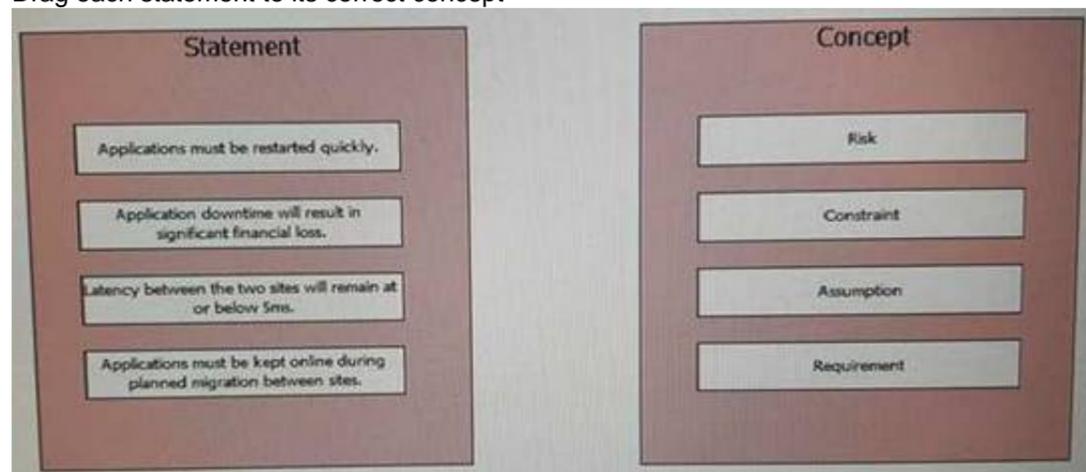
NEW QUESTION 4

A company has requested assistance with a new cross-site failover design between two sites which will support business-critical applications. Latency between the sites is less than 5ms round-trip.

The company requires:

- application must be restarted quickly in the event of a total site failure
- allow for planned migration during maintenance
- applications must be kept online even when migrated due to planned maintenance

Drag each statement to its correct concept



Answer:

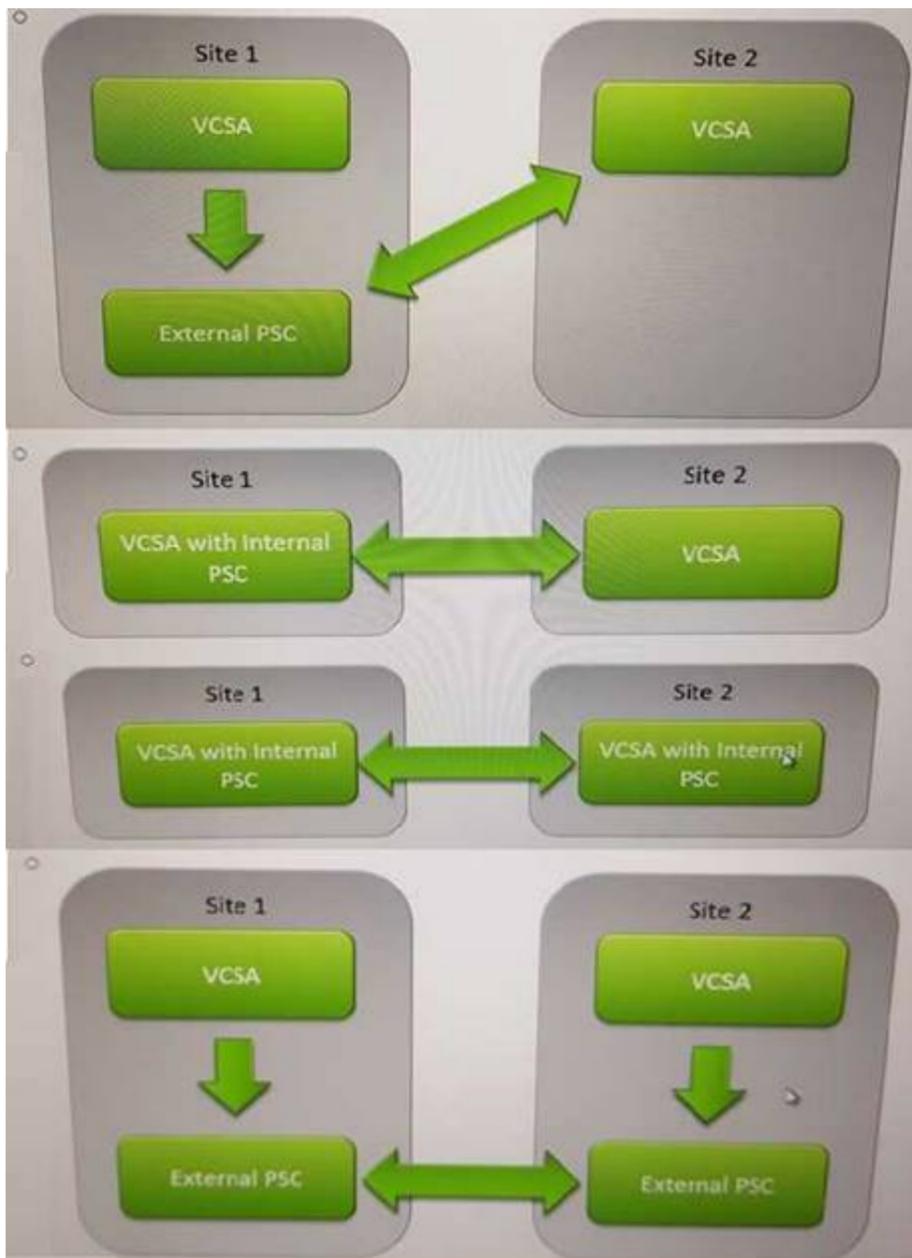
Explanation:



NEW QUESTION 5

The customer has two sites that must operate independently of each other in the event of a WAN failure. During normal operations, administrators from each site must be able to manage the other site through the vSphere Web Client.

Which vCenter Server Appliance (VCSA) and Platform Services Controller (PSC) diagram shows the VMware-recommended design that satisfies these requirements?



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

Answer: D

Explanation: <https://www.opvizor.com/understanding-the-impacts-of-mixed-version-vmcenter-server-deployments/>

NEW QUESTION 6

A customer has requested a vSphere 6.5 deployment design where ESXi hosts are provisioned with Auto Deploy. The customer requires that certificates can be automatically refreshed and renewed from the vSphere Web Client for ESXi hosts. Which certificate policy should be configured for vCenter Server?

- A. Thumbprint Mode
- B. VMware Certificate Authority
- C. Custom Certificate Authority
- D. Subordinate Certificate Authority

Answer: B

NEW QUESTION 7

A company is implementing a new ESXi host cluster at its New York data center.

- The CIO has stated that the new ESXi cluster should be designed with enough failover capacity to sustain two ESXi host failures.
- Six ESXi hosts have been approved for this workload.
- The ESXi hosts are to be purchased from Dell with these specifications:
 - 2x10 core 2.2GHz Intel CPU
 - 128 GB of memory
- The workload is defined as 150 employee desktop virtual machines each with 3GB RAM reserved.
- All virtual machines should be protected by vSphere High Availability Which are two true statements regarding failover capacity? (Choose two.)

- A. vSphere HA can be configured to reserve 25% of memory capacity for failover.
- B. vSphere HA can be configured to specify two dedicated failover hosts.
- C. vSphere HA can be configured to reserve 35% of memory capacity for failover.
- D. vSphere HA can be configured to specify one dedicated failover host.

Answer: BC

NEW QUESTION 8

A company is conducting a technology refresh and has requested assistance with a vSphere 6.5 design.

- The company has a corporate headquarters and two data centers strategically placed around the country, which provide the bulk of the computer power and storage for their customer-facing stores.
- The company requires each of its stores to be able to operate independently if connectivity is ever lost.
- Presently, all stores are configured differently and must be standardized as part of the technology refresh
- To support store operations, only a dozen applications are required.
- Any downtime during store hours could result in significant losses.
- Any proposed design must minimize cost.

What is a VMware-recommended option for this scenario?

- A. VMware vSAN cluster with a minimum of three hosts
- B. VMware vSphere cluster with low-cost iSCSI shared storage
- C. VMware vSAN Stretched Cluster with nearest regional data center
- D. VMware vSAN Remote Office Branch Office (ROBO) with two hosts

Answer: D

NEW QUESTION 9

A solution architect has been tasked with designing a new environment that meets the needs of a growing company, and has obtained this information:

- The current capacity will be exhausted in 180 days, and the new infrastructure must be deployed and in production prior to that.
- The new servers have a 90-day delivery time.
- A data center for disaster recovery has been selected, and it is 20 miles away and connected by MPLS.
- The security team will continue to utilize its current investments and VM Encryption for the new environment.
- The backup team currently uses Data Domain, and reports show an 8:1 compression and deduplication ratio for backups.

Based on the information obtained, which two statements are risks for the new design? (Choose two.)

- A. MPLS will be used to connect the two data centers.
- B. The Change Advisory Board will approve all changes.
- C. Current back up space will not be sufficient if using VM Encryption.
- D. The current firewalls will support the additional workloads.

Answer: AB

NEW QUESTION 10

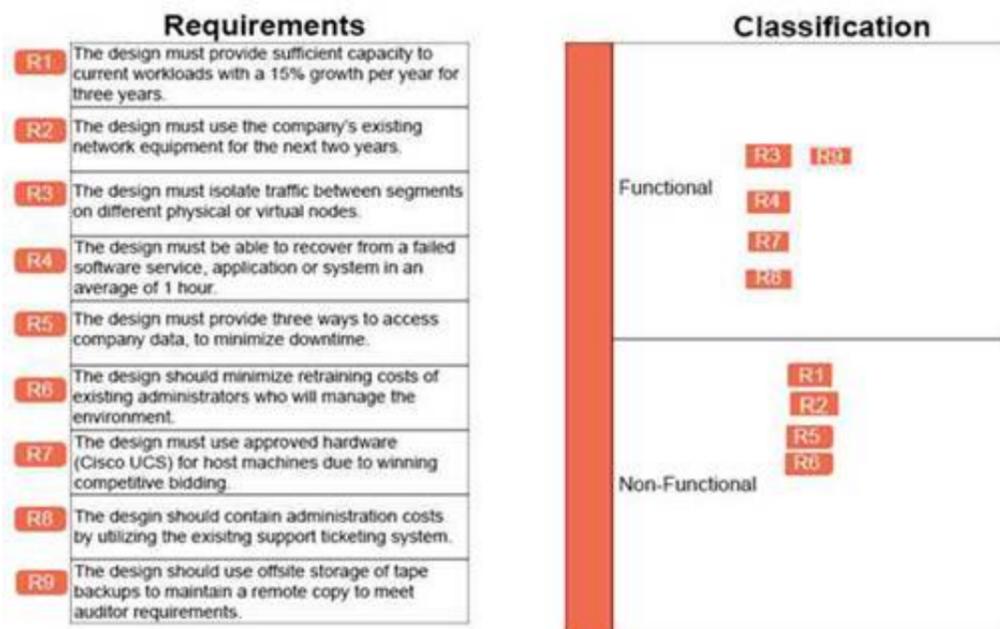
You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has provided information via requirements gathering. Evaluate each statement and determine if the requirement is functional or non-functional.

Match Requirements on the left by dragging the red buttons (R1-R9) over the text of the appropriate Classification.

Requirements	Classification
R1 The design must provide sufficient capacity to current workloads with a 15% growth per year for three years.	<div style="border: 1px solid black; padding: 10px;"> <div style="border-bottom: 1px solid black; height: 100px; display: flex; align-items: center; justify-content: center;">Functional</div> <div style="height: 100px; display: flex; align-items: center; justify-content: center;">Non-Functional</div> </div>
R2 The design must use the company's existing network equipment for the next two years.	
R3 The design must isolate traffic between segments on different physical or virtual nodes.	
R4 The design must be able to recover from a failed software service, application or system in an average of 1 hour.	
R5 The design must provide three ways to access company data, to minimize downtime.	
R6 The design should minimize retraining costs of existing administrators who will manage the environment.	
R7 The design must use approved hardware (Cisco UCS) for host machines due to winning competitive bidding.	
R8 The design should contain administration costs by utilizing the existing support ticketing system.	
R9 The design should use offsite storage of tape backups to maintain a remote copy to meet auditor requirements.	

Answer:

Explanation:



NEW QUESTION 10

A company provides critical financial and statistical data for several major banks.

- The company ensures that the bank's customer data is secure and that analytics data is available when needed.
- Customers rely on this data before making crucial business and financial decisions.
- Just a few minutes of downtime can result in loss of revenue and trust.
- To meet high-availability requirements, the company's IT infrastructure components must be redundant.
- The company established three data centers across the globe and interconnected them with high-speed WAN links.
- Due to the rapid growth of its customers and their increasing demands, the compute, network, and storage were procured and managed by the company's enterprise system administrators group. What are its two key challenges? (Choose two)

- A. Data centers across the globe possess manageability problems.
- B. Availability of business applications must be ensured.
- C. Regulatory requirements must be met.
- D. Hardware-defined data centers have limitations.

Answer: AD

NEW QUESTION 15

After the vSAN iSCSI Target service is enabled, which statement about iSCSI networks is true?

- A. A separate VMkernel interface may be configured per target.
- B. A single VMkernel interface must be selected for all iSCSI targets.
- C. The vSAN iSCSI Target service always uses all Management VMkernel interfaces.
- D. The vSAN iSCSI Target service always uses the vMotion network.

Answer: A

NEW QUESTION 17

When considering server consolidation, plan on running vCPUs per core.

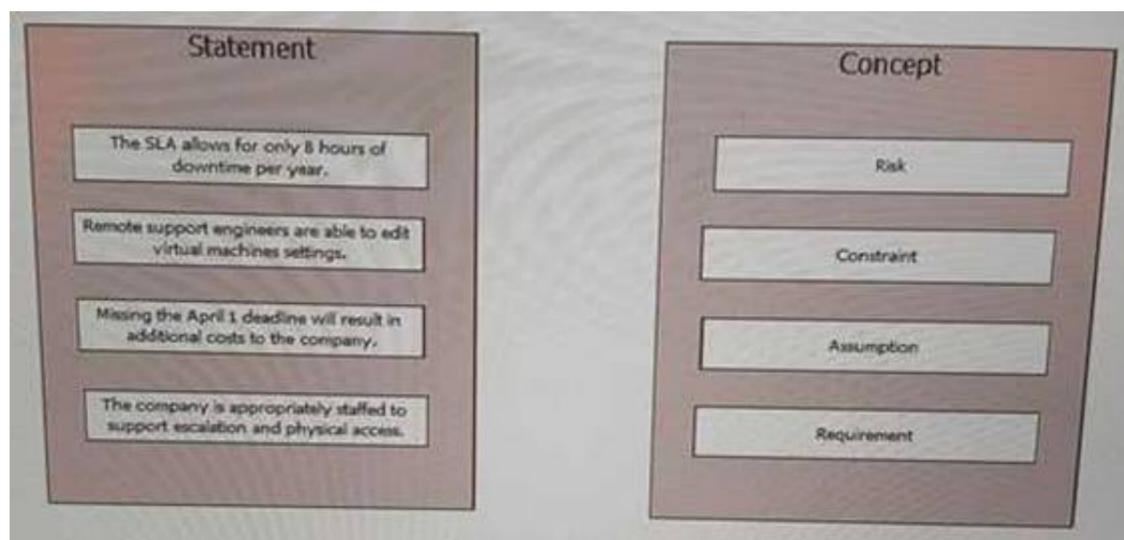
- A. 1 to 2
- B. 3 to 4
- C. 4 to 6
- D. 6 to 8

Answer: A

NEW QUESTION 21

A company is outsourcing its support operations to an external service provider and plans to complete the project by April 1.

- The external Support engineers must have the ability to power cycle, create, and edit virtual machines settings within their assigned vSphere site.
 - The company maintains three vCenter servers in Enhanced Linked Mode that are run as virtual machines in the supported infrastructure.
 - The vCenter servers will be supported by the external service provider.
 - Each vCenter server is connected to its own local Platform Services Controller and MSSQL database server.
 - The company will provide escalation support and physical access on a per request basis.
 - 99.9% ESXi host uptime is required in this environment, but no SLA has been specified for the hosted applications.
- Drag each statement to its appropriate concept.



Answer:

Explanation: Risk --> Missing the April 1 deadline...

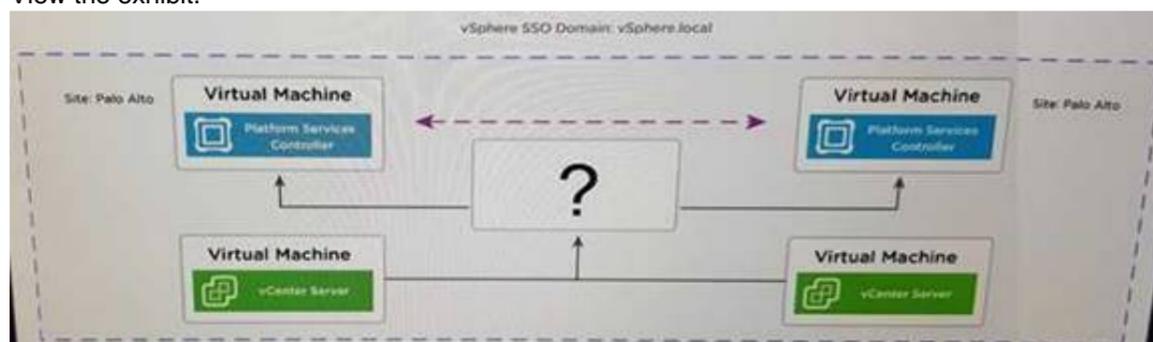
Constraint --> Remote support...

Assumption --> The company is...

Requirement --> The SLA allows for..

NEW QUESTION 23

View the exhibit.



Referring to the exhibit, which appliance or device belongs in the square with the question mark?

- A. Firewall Appliance
- B. Load Balance
- C. Platform Services Controller
- D. vCenter Server Appliance

Answer: A

NEW QUESTION 28

An organization's security policy requires a design where the ESXi hosts will be manageable only through vCenter Server. Which two security configurations will help meet this requirement? (Choose two)

- A. enable lockdown mode strict
- B. disable DCUI access
- C. enable lockdown mode normal
- D. disable shell access

Answer: AD

NEW QUESTION 32

A virtualization administrator has been tasked with migrating several business applications from physical to virtual. The administrator must also migrate the virtual machines from VMware Workstation to vSphere 6.5, using vCenter Converter Standalone 6.1. In this scenario, when two source types are supported? (Choose two.)

- A. powered-off Windows Server 2008 physical machine
- B. powered-on Windows Server 2000 Workstation virtual machine
- C. powered-off Windows Server 2008 Workstation virtual machine
- D. powered-on Windows Server 2008 physical machine

Answer: CD

NEW QUESTION 37

You have been tasked with creating a vSphere 6.5 data center design for an organization. The customer has decided to virtualize their database application and has provided specific design requirements. You must determine how these requirements map to the design characteristic(s).

Match Database Requirements with Design Characteristics by dragging the red button (R1-R5) over the text of the appropriate Design Characteristic.

NOTE: Database Requirements can be mapped to more than one Design Characteristic.

Database Requirements

R1	The design must provide enough resources to handle peak utilization times.
R2	The design must support the required average transaction count.
R3	The database application is mission critical.
R4	The design should support 7 days of transaction logs.
R5	The design should be able to gather I/O statistics for the application.

Design Characteristics

Availability
Manageability
Performance
Recoverability
Security

Answer:

Explanation:

Database Requirements

R1	The design must provide enough resources to handle peak utilization times.
R2	The design must support the required average transaction count.
R3	The database application is mission critical.
R4	The design should support 7 days of transaction logs.
R5	The design should be able to gather I/O statistics for the application.

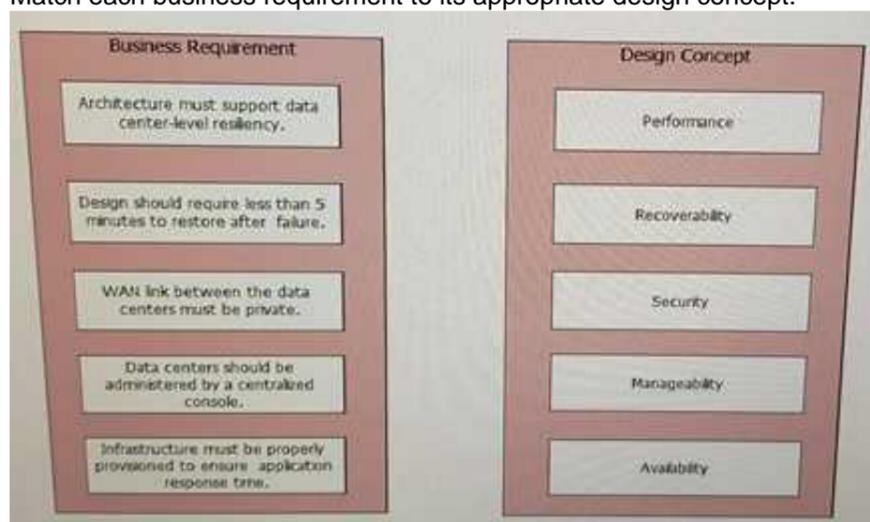
Design Characteristics

Availability	R3
Manageability	R1
Performance	R2 R5
Recoverability	R4
Security	

NEW QUESTION 42

A company is a leading provider for an online travel booking system with over a \$1,000,000 turnover each day. The company wants to leverage VMware cloud solutions to consolidate, scale, and ensure high availability for all of its data centers.

Match each business requirement to its appropriate design concept.



Answer:

Explanation: Performance --> Infrastructure must be properly provisioned... Recoverability --> Design should require less than 5' to restore... Security --> WAN links between... Manageability --> DCs should be administered by a centralized console Availability --> Architecture must support DC level resiliency

NEW QUESTION 46

A customer has storage arrays from two different storage vendors at two different sites. The customer wants to restore operations at the secondary site in the event of a disaster.

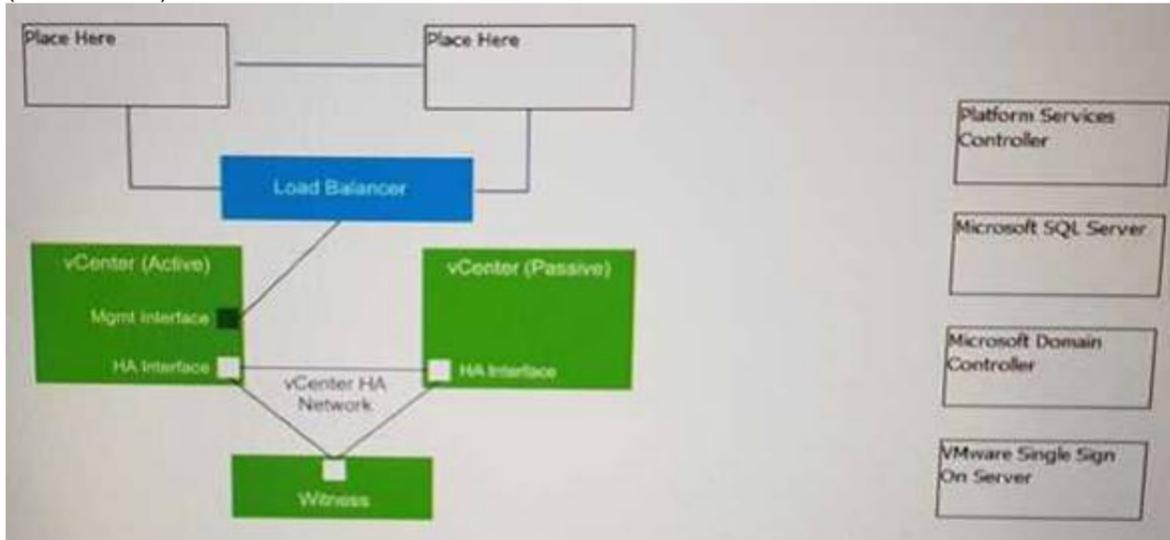
Which VMware technology must be used to meet this requirement?

- A. vSphere replication
- B. vSphere Data Protection
- C. array-based replication
- D. vSphere Fault Tolerance

Answer: A

NEW QUESTION 50

In the vCenter HA configuration below, drag the two correct components to the blank boxes in this diagram. The same component may be used more twice (Choose two.)



Answer:

Explanation: Platform services controller

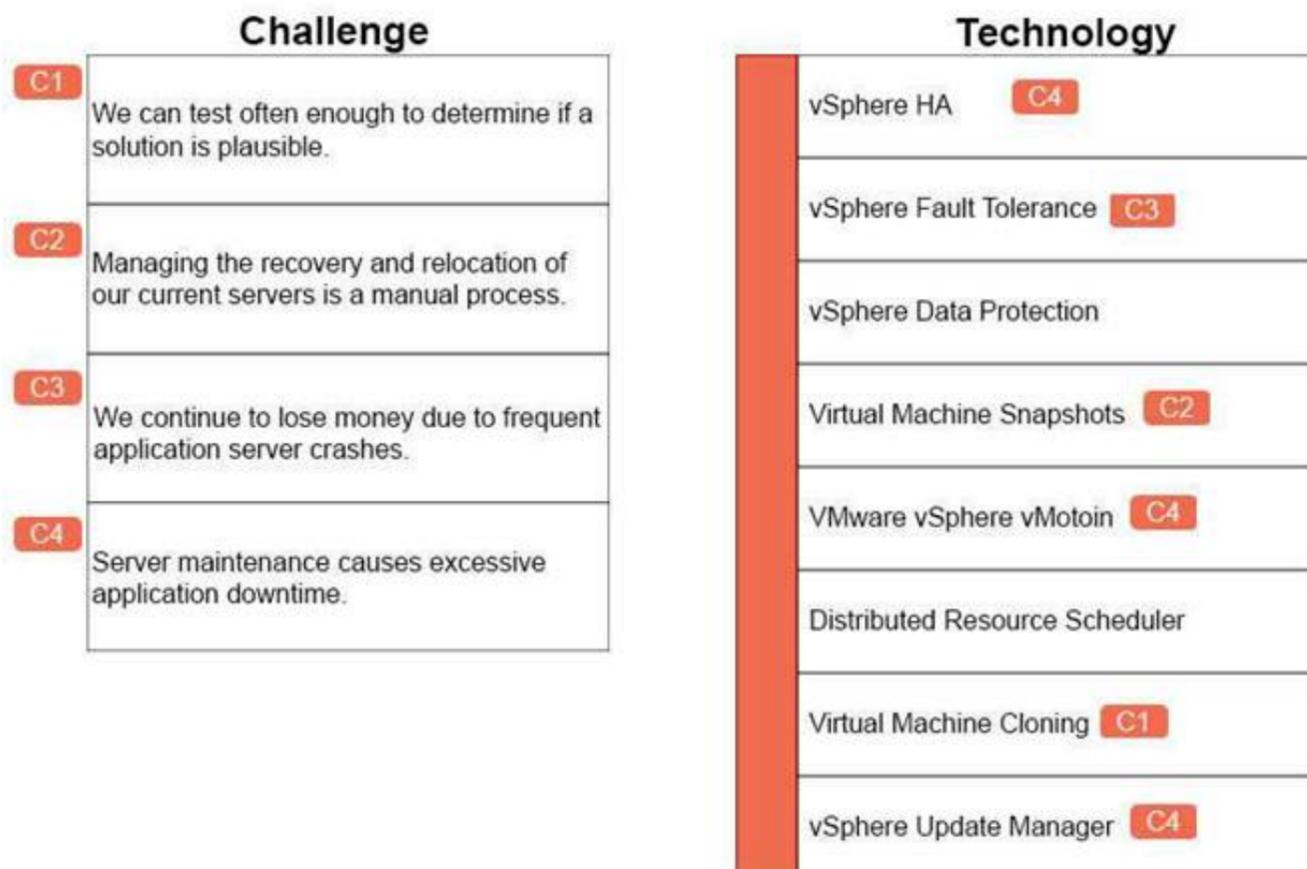
NEW QUESTION 54

You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has identified a number of challenges that occur within their current infrastructure that they would like addressed in the design. For each challenge, determine the vSphere technologies that could be used in the design. Match each Challenge on the left by dragging the red Challenge buttons (C1-C4) over the appropriate Technology.

Challenge	Technology
C1 We can test often enough to determine if a solution is plausible.	vSphere HA
C2 Managing the recovery and relocation of our current servers is a manual process.	vSphere Fault Tolerance
C3 We continue to lose money due to frequent application server crashes.	vSphere Data Protection
C4 Server maintenance causes excessive application downtime.	Virtual Machine Snapshots
	VMware vSphere vMotion
	Distributed Resource Scheduler
	Virtual Machine Cloning
	vSphere Update Manager

Answer:

Explanation:



NEW QUESTION 58

A customer is using blade servers with only one HBA.
Which two design concepts apply to this scenario? (Choose two.)

- A. Assumption
- B. Risk
- C. Constraint
- D. Requirement

Answer: BC

NEW QUESTION 59

Customer Information

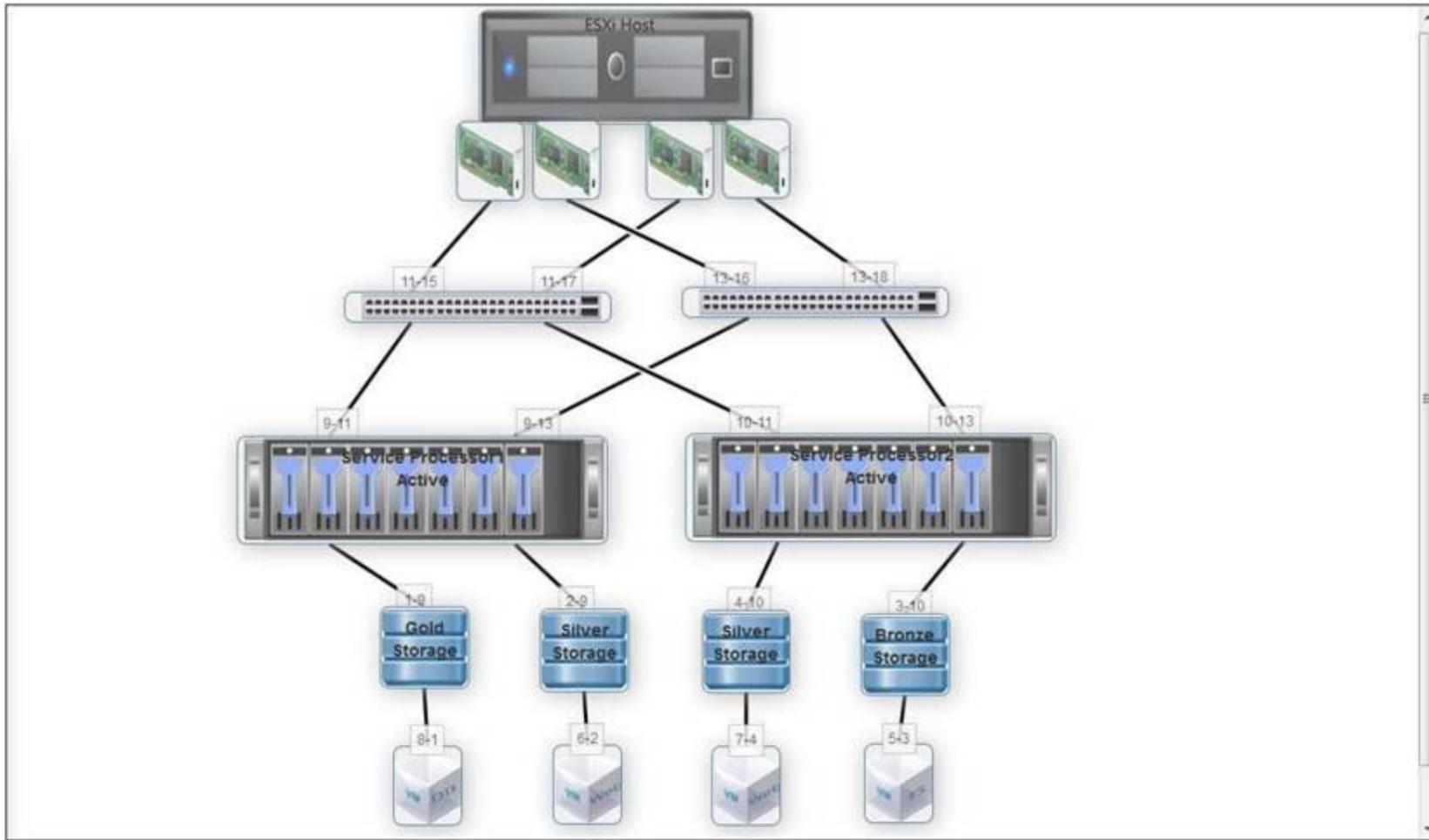
The Customer labtown is looking to purchase a new storage system and has hired you to create a logical design. Labtown requires no single points of failure when it comes to the fabric connecting the storage. Labtown has already decided that the new storage system will be using fibre to re-use as much of the previous hardware as possible to increase ROI. Labtown would also like a tiered disk system broken into three categories with the database sitting in the fastest tier, the two web servers sitting in the medium tier, and the file server sitting in the slowest tier.

Create a logical design for Labtown's new Storage System Requirements

- Create a tiered storage system for Labtown - No single points of failure - Insure storage performance SLA's are met with the four line of business VM's
- Instructions
- Place VM's on the bottom of the page and connect them with the connector to the storage LUN they will belong to.
 - Connect the storage LUN with the service processor with the connector
 - Connect the storage processors to the SAN switch
 - Place HBA's just below the host, as long as they are close to the host points will be scored
 - Connect HBA's to SAN switches with either the Fixed, MRU, or RR Connector to dictate the PSP Policy for storage on the ESXi host.

Answer:

Explanation: Check below for answer solution
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NEW QUESTION 60

Customer Requirements:

You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization is looking to virtualize their physical email application. The company has provided a list of requirements that must be included in the design:

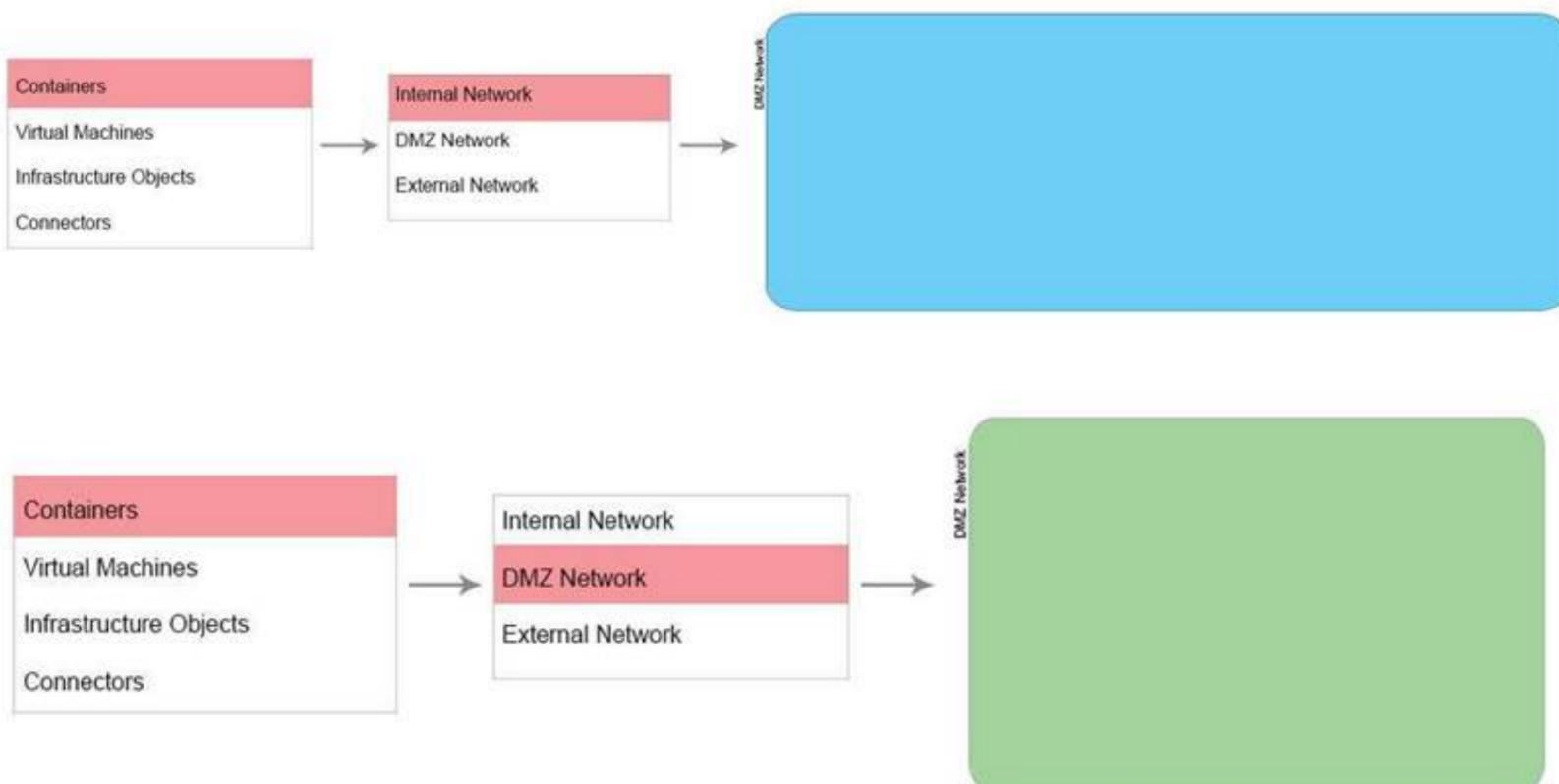
- E-mail database is replicated between two servers at a logical level, with no shared disk configurations.
- E-mail databases meet corporate criteria for LUN provisioning, and must reside directly on storage array.
- Operating system disks do not meet corporate requirements for LUN provisioning, and per policy should not share the same VMFS storage location for redundancy reasons.
- Internal users currently point to three Client Access Servers for load balancing.
- External users currently point to three Web Client Access Servers for load balancing.
- Customer requires discrete hardware to provide security between internal servers and externally available servers, as well as between externally available servers, and client connections from offsite.

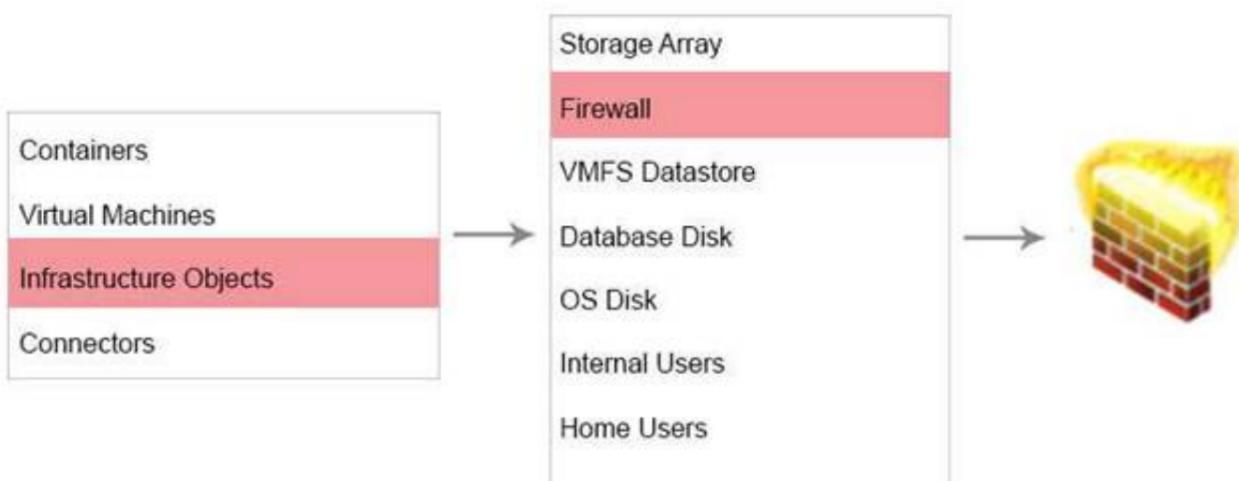
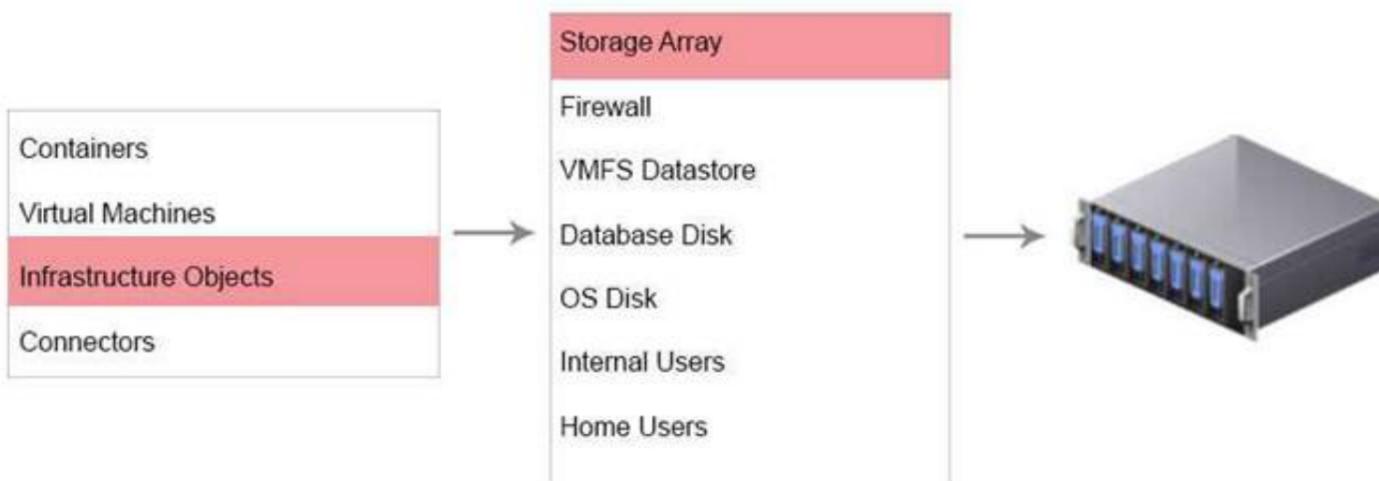
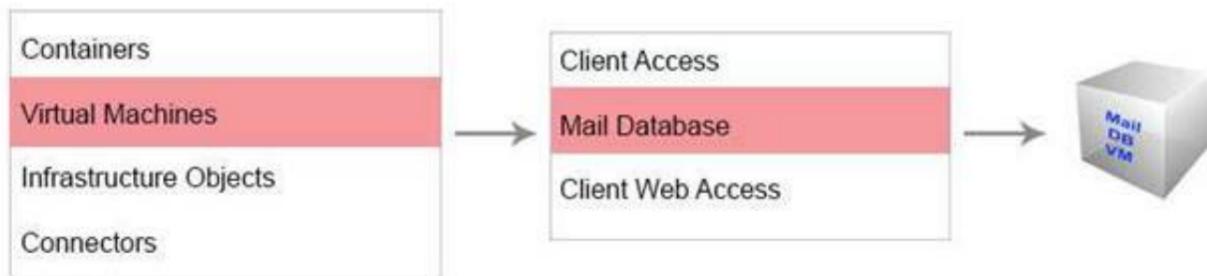
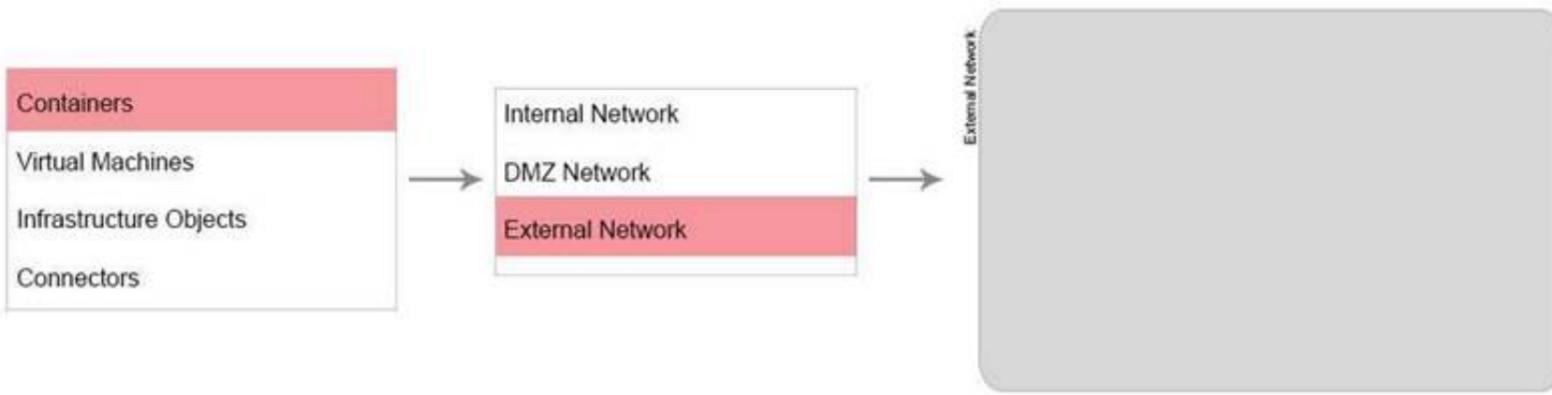
Design Requirements:

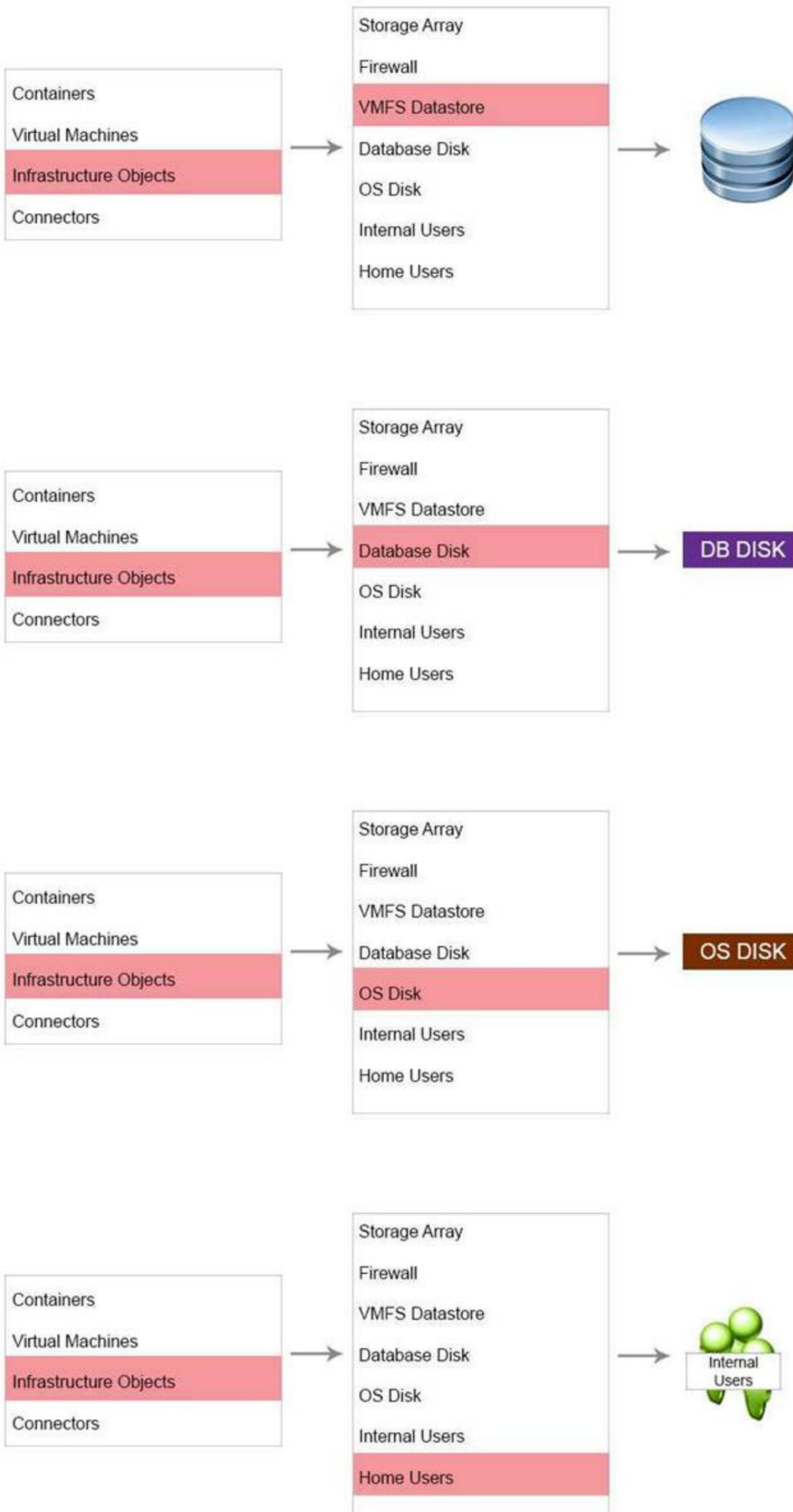
Create a solution that shows the service dependencies required for virtualizing the email application, including:

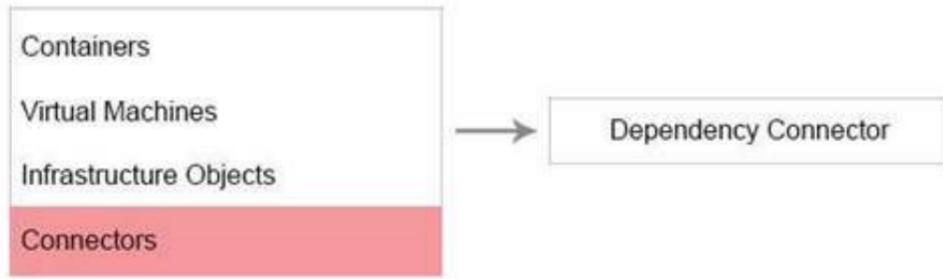
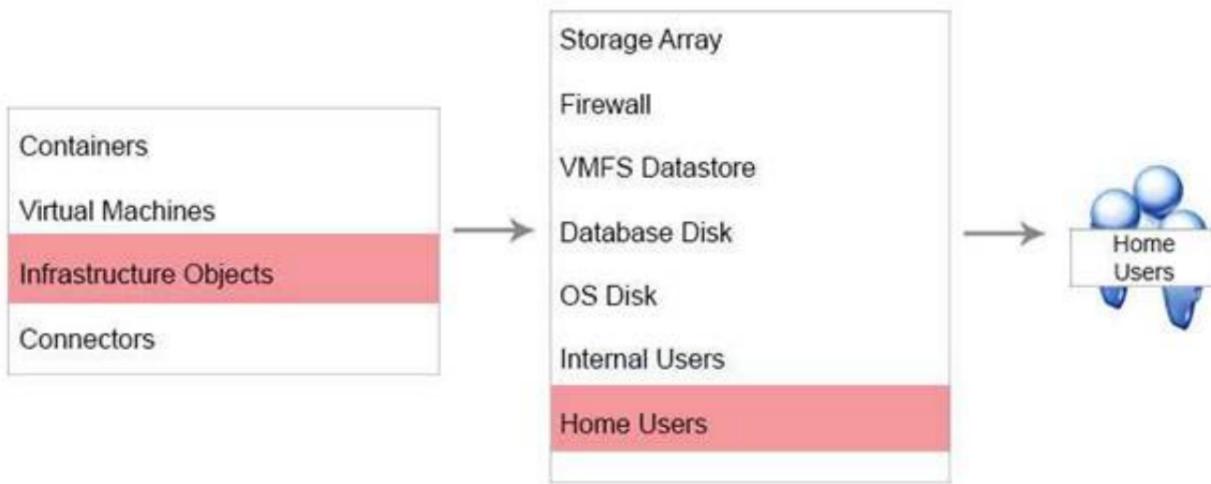
- All required storage for Mail DB VM(s) only
- All required network and security connection(s)
- All required virtual machine(s)
- All required user(s)

Place all items in required container(s). Connect VMFS datastore(s) to required virtual machine(s). Place disk(s) over the required storage type(s). Connect firewall(s) to container(s).



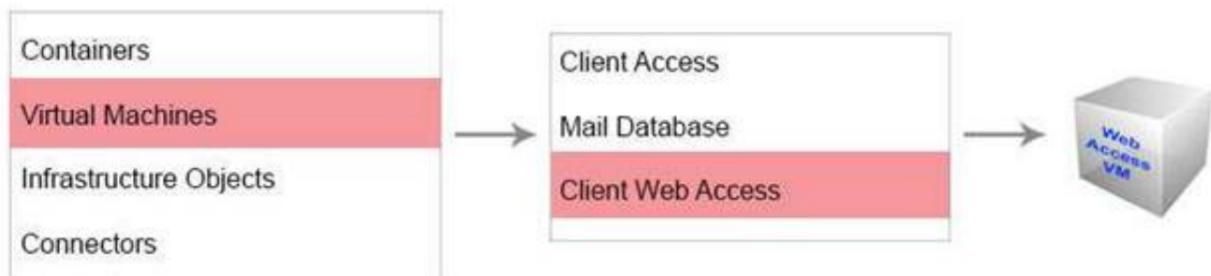
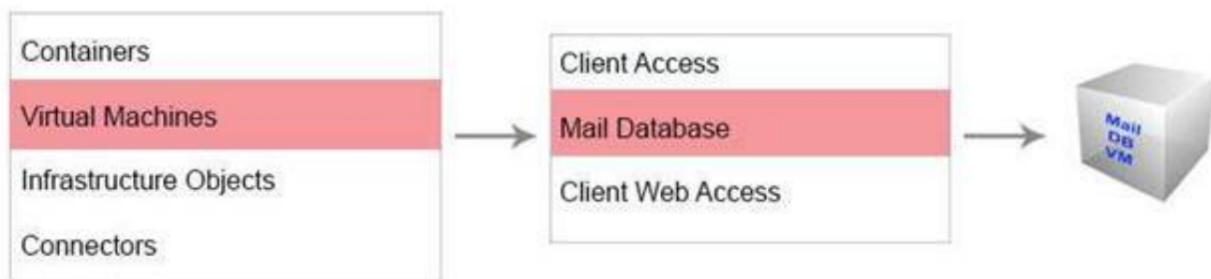
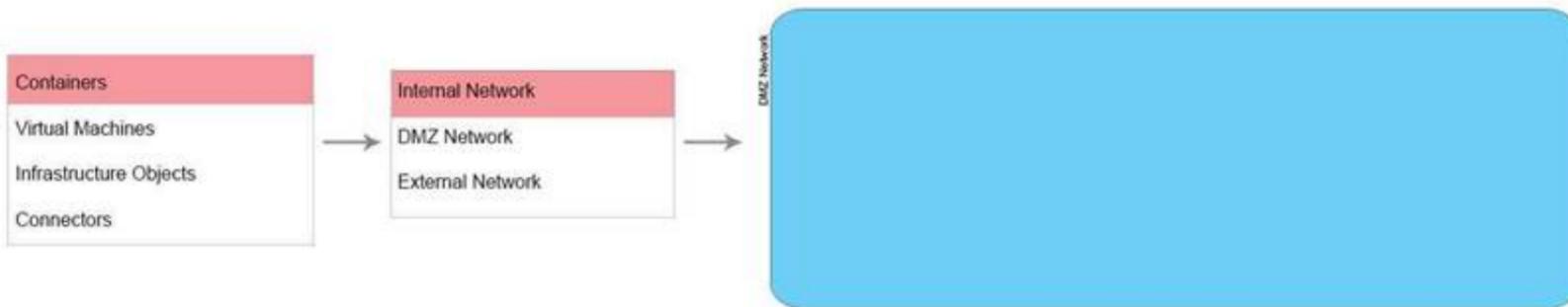


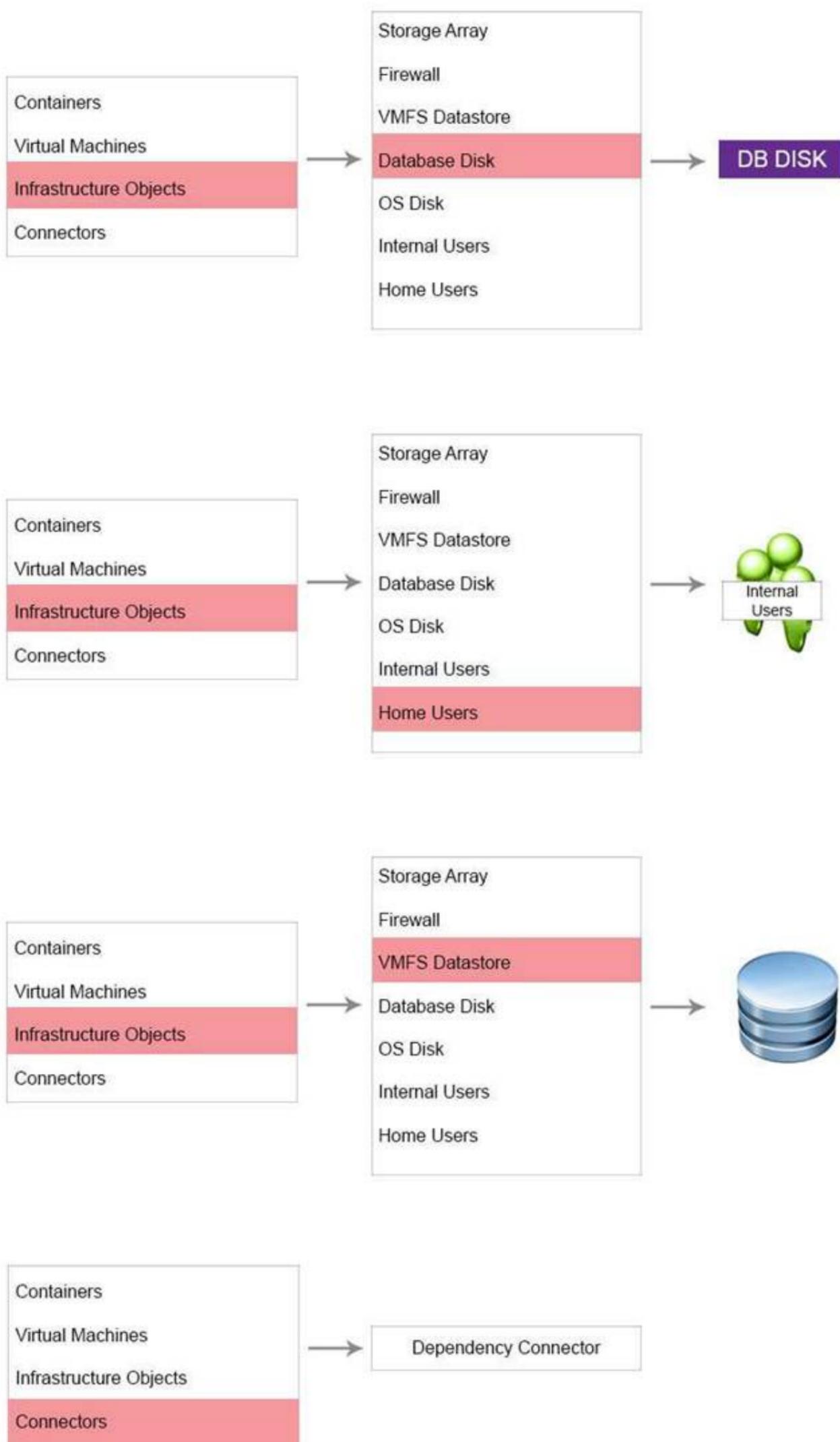




Answer:

Explanation: Check below for answer solution



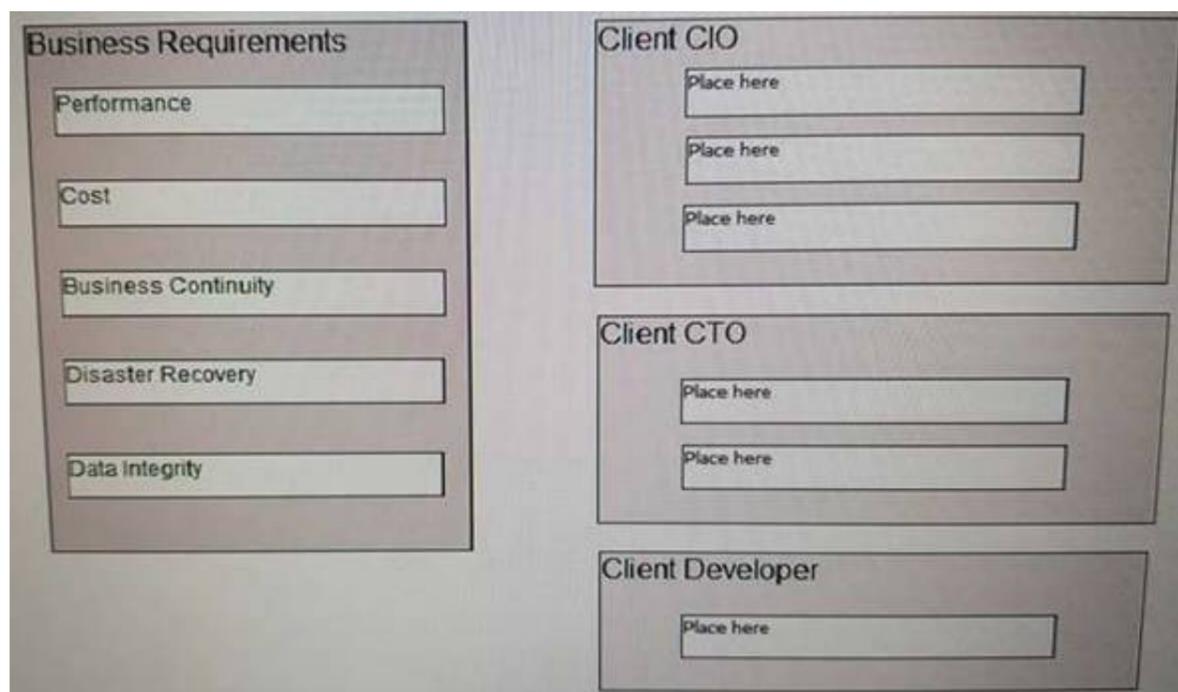


NEW QUESTION 63

A company has one data center site running 50 hosts and 400 virtual machines and requires a vSphere 6.5 design.

1. The CIO wants to add a secondary site for Disaster Recovery (DR) with A hours RPO.
2. The application developer is concerned about anticipated growth as several new projects begin.
3. The CISO is worried about data leaks and theft.
4. The CTO would like to buy new servers with better specifications and higher consolidation ratio.

Determine the critical requirements for each of the key stakeholders. Some requirements might have more than one stakeholder.



Answer:

Explanation: Client CIO Disaster Recovery Business Continuity Data Integrity Client CTO Cost Performance Client Developer Performance

NEW QUESTION 64

A company is in the process of deploying a modern video-streaming application.

- The application is able to scale (expand and collapse) its streaming nodes in the form of CentOS 7.x 64bit virtual machines, based on demand.
- This IO-Intensive application has a high CPU demand and generates a significant number of disk operations (IOPS).
- To host the application, the company decided to implement a brand-new VMware cluster with vSphere 6.5
- The company would like a significant reduction in CPU utilization as well as a possible increase in throughput.

Which virtual disk adapter should be recommended for the company's physical design?

- A. LSI Logic Parallel
- B. VMware Paravirtual
- C. BusLogic Parallel
- D. LSI Logic SAS

Answer: B

NEW QUESTION 67

A customer wants to make its data available with a RPO of 10 minutes. Replication to the second data center will be done using the network.

Which type of storage configuration should be used?

- A. NFS datastore on ESXi 6.0 with vSphere replication appliance 6.0
- B. VMFS datastore on ESXi 6.0 with vSphere replication appliance 6.5
- C. vSAN datastore on ESXi 6.0 with vSphere replication appliance 6.5
- D. VMFS datastore on ESXi 6.0 with vSphere replication appliance 6.0

Answer: B

NEW QUESTION 68

You have been tasked with creating a vSphere 6.5 design for an organization. The organization is looking to implement a Virtual SAN into their environment. You have been tasked with determining whether a given Virtual SAN logical design decision meets the technical requirements of their infrastructure.

For each Design Decision on the left drag the red Decision buttons (D1-D8) on the right and place it on the proper Technical Requirement.

NOTE: Not all Design Decisions will be used.

Design Decision

D1	2 each 1 Gbps NICs
D2	2 each 10Gbps NICs
D3	FTT = 2
D4	4 hosts 2U each + 1 Blade server
D5	4 hosts 4U each
D6	4 hosts 2U each + 2 Blade servers
D7	Stripe Width = 1
D8	Stripe Width = 3

Technical Requirement

Data Availability
Throughput
Write Performance
Cluster Size

Answer:

Explanation:

Design Decision	Technical Requirement
D1: 2 each 1 Gbps NICs	Data Availability: D2, D5, D8
D2: 2 each 10Gbps NICs	Throughput: D2, D6, D7
D3: FTT = 2	Write Performance: D1, D3, D5
D4: 4 hosts 2U each + 1 Blade server	Cluster Size: D4
D5: 4 hosts 4U each	
D6: 4 hosts 2U each + 2 Blade servers	
D7: Stripe Width = 1	
D8: Stripe Width = 3	

NEW QUESTION 72

A global financial company has requested assistance with a new cross-site failover design between two sites which will support business critical applications. Latency between the sites is less than 5ms round-trip.

The company requires:

- application must be restarted quickly in the event of a total site failure
 - allow for planned migration during maintenance
 - applications must be kept online even when migrated due to planned maintenance
- Drag each statement to its correct concept

Statement	Concept
Application downtime will result in significant financial loss.	Risk
Latency between the two sites will remain at or below 5ms.	Constraint
The product of the design must adhere to regulatory compliance.	Assumption
A limited number of storage solutions support vSphere Metro Storage Clustering.	Requirement

Answer:

Explanation: Risk--> App downtime..
Constraint --> The product of the desing must...
Assumption --> A limited number of storage...
Requirement --> Latency between the two sites...

NEW QUESTION 75

A company has requested a new vSphere 6.5 design that will allow it to finally break the 80% virtualization barrier by virtualizing its resource-intensive application.

- The application is highly available by design and includes application-aware clustering software capable of operating as a fully distributed system.
 - The company's Application Version 2.0 consists of 386 small applications and middleware with non-persistent storage and 24 database virtual machines at each data center.
 - When coupled with a proper load balancing solution, this application can continue operating even with the loss of an entire data center, but the small applications and middleware tiers within a data center must exist within the same broadcast domain.
 - The database tier is tightly controlled with a firewall policy that only allows middleware tier access, and is replicated to other sites using a dedicated circuit.
- Which two application requirements apply to this scenario? (Choose two.)

- A. The application will require the configuration of an IGMP stub and helper.
- B. Shared storage is required by the application clustering software.
- C. The application will require one large subnet.
- D. The application will require a method of balancing and recovering sessions between sites.

Answer: BC

NEW QUESTION 79

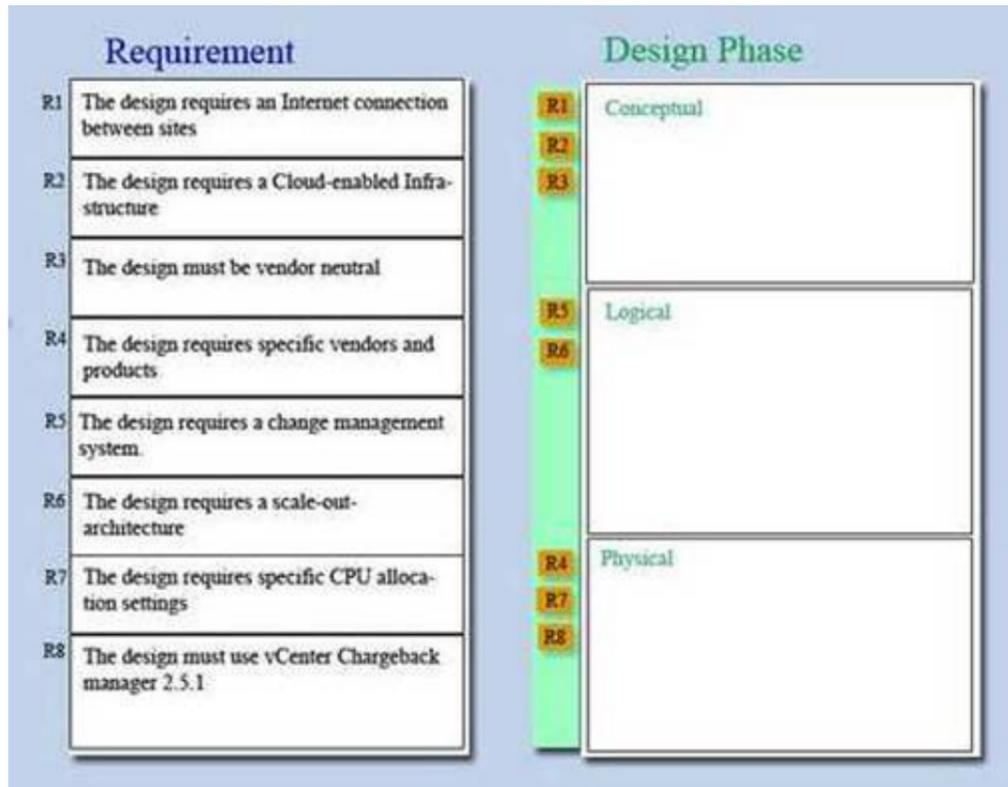
You have been provided with a list of requirements for a vSphere Design. For each requirement, categorize the requirement as a component of the conceptual, logical, or physical design.

Drag a requirement button (R1-R8) over to the green space provided beside the corresponding Design Phase.

Requirement	Design Phase
R1 The design requires a Internet connectoin between sites	Conceptual
R2 The design requires a Cloud-enabled Infrastructure	Conceptual
R3 The design must be vendor neutral	Conceptual
R4 The design requires specific vendors and products	Logical
R5 The design requires a change management system	Logical
R6 The design requires a scale-out-architecture	Logical
R7 The design requires specific CPU allocation settings	Physical
R8 The design must use vCenter Chargeback manager 2.5.1	Physical

Answer:

Explanation:



NEW QUESTION 81

Customer Requirements:

You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization wants three defined virtual machine performance levels:

- Gold Tier – High workload VMs
- Silver Tier – Medium workload VMs
- Bronze Tier – Development workload VMs

The organization has eight ESXi hosts that can be used in the design. Five of the hosts are older “medium performance” hosts, while the last 3 are newer “high performance” hosts that provide better resources when compared to the other hosts. The organization has provided a list of requirements that the design must meet:

- Gold Tier virtual machines should run only on high performance servers, unless no high performance servers are available. They should also be allocated 75% of overall available resources regardless of placement.
- Silver Tier virtual machines should run only on medium performance servers, unless no medium performance servers are available. They should also be allocated 25% of overall available resources regardless of placement.
- Bronze Tier virtual machines should run only on medium performance servers. They should also receive a 35% subset of resources from those allocated to the Silver Tier.

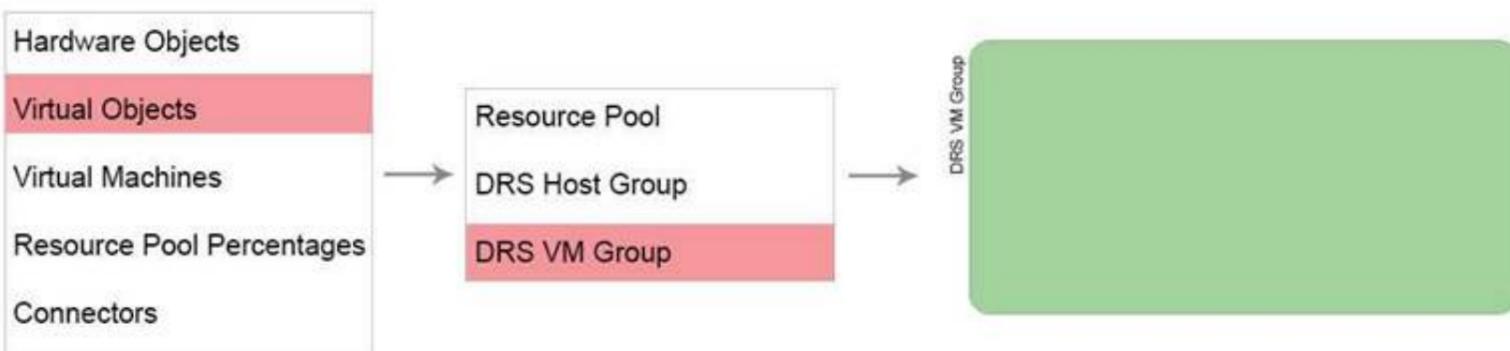
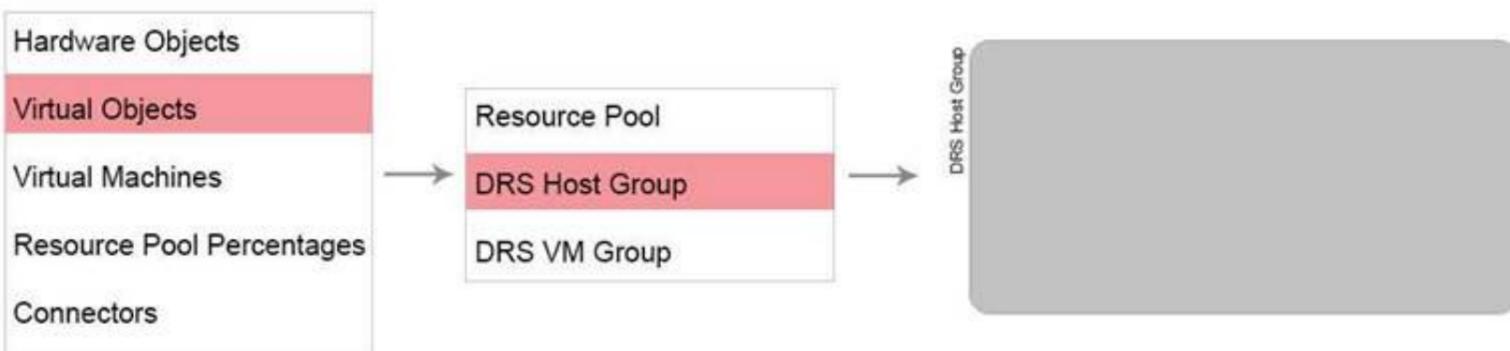
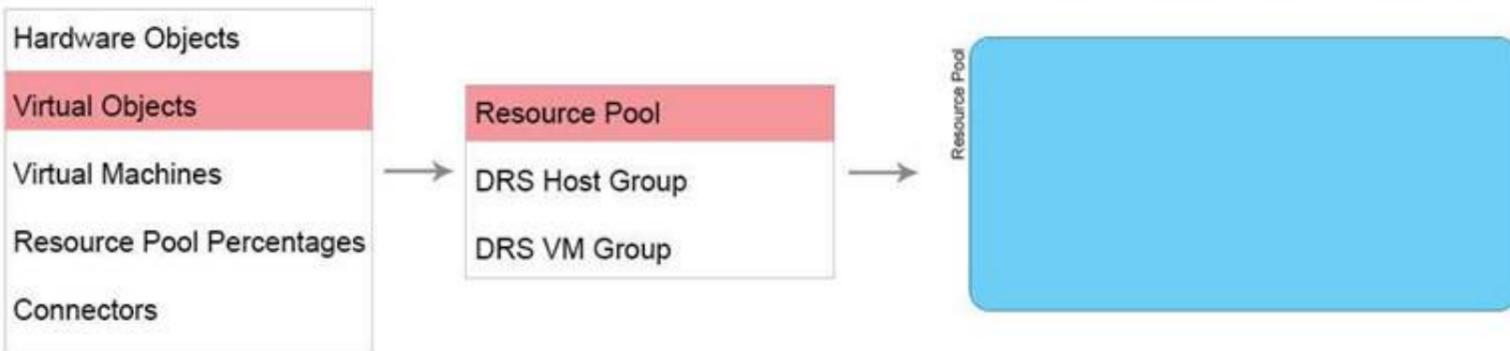
Design Requirements:

Create a logical design that shows resource allocation and cluster policies needed to meet the customer’s requirements. The design should include:

- All required server(s)
- All required resource(s)

Place host(s) in the required DRS group(s). Place virtual machines in the appropriate resource pool(s). Connect parent to child resource pool connector(s) where needed. Connect the appropriate affinity connector(s) where needed.





- Hardware Objects
- Virtual Objects
- Virtual Machines**
- Resource Pool Percentages
- Connectors



- Gold Tier VMs
- Silver Tier VMs**
- Bronze Tier VMs



- Hardware Objects
- Virtual Objects
- Virtual Machines**
- Resource Pool Percentages
- Connectors



- Gold Tier VMs
- Silver Tier VMs
- Bronze Tier VMs**



- Hardware Objects
- Virtual Objects
- Virtual Machines
- Resource Pool Percentages**
- Connectors



- Seventy-Five Percent**
- Sixty-Five Percent
- Thirty-Five Percent
- Twenty-Five Percent



75%

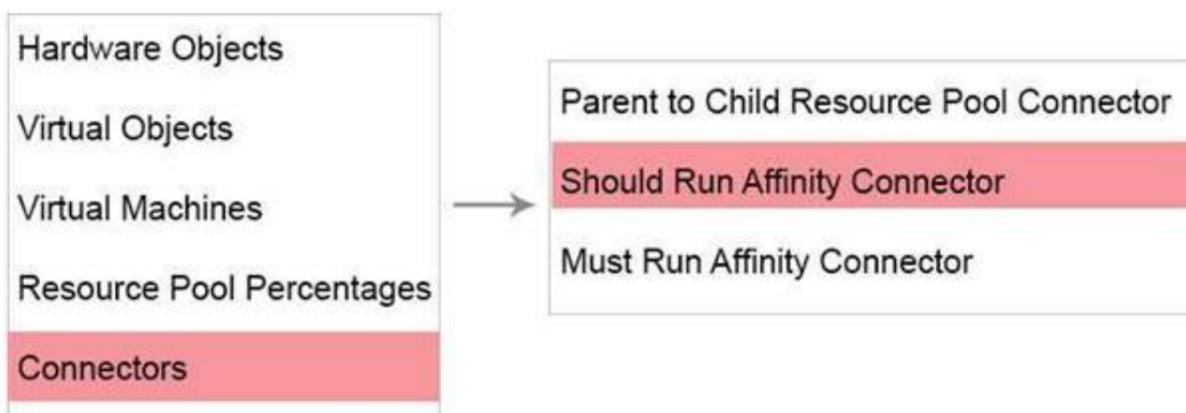
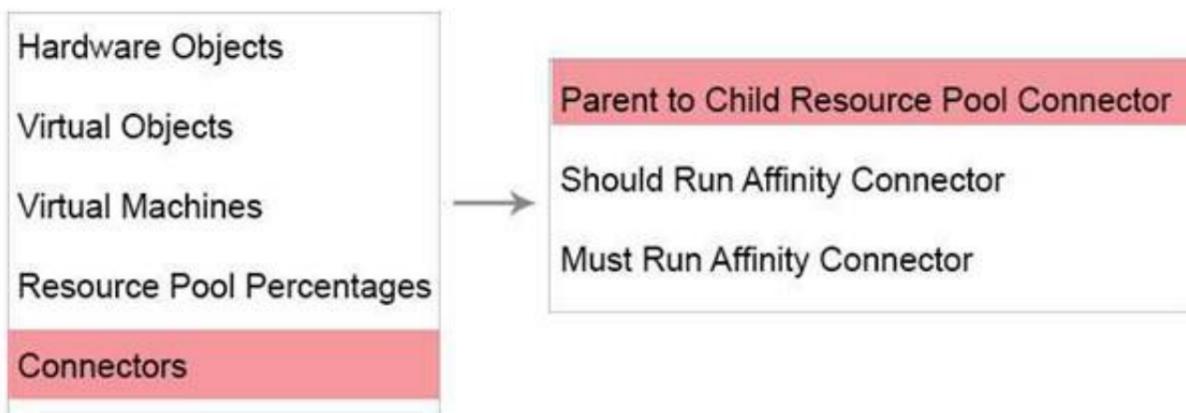
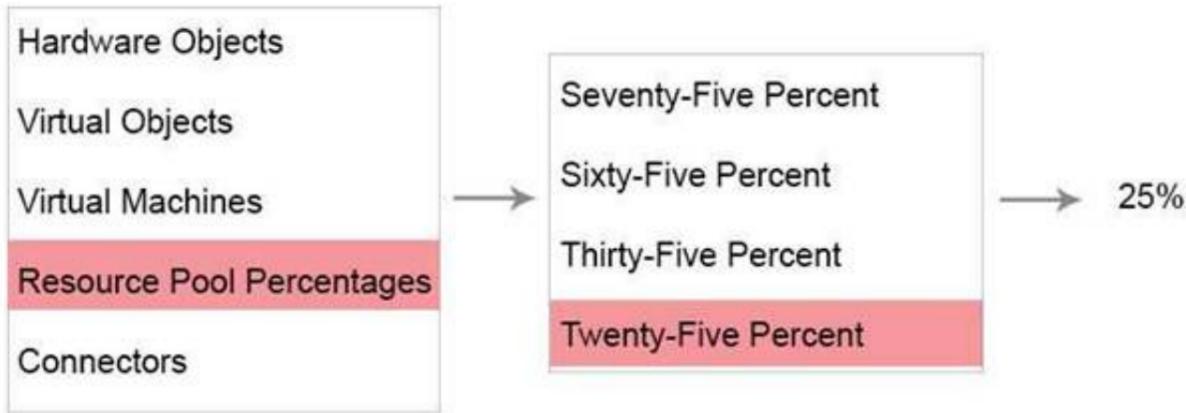
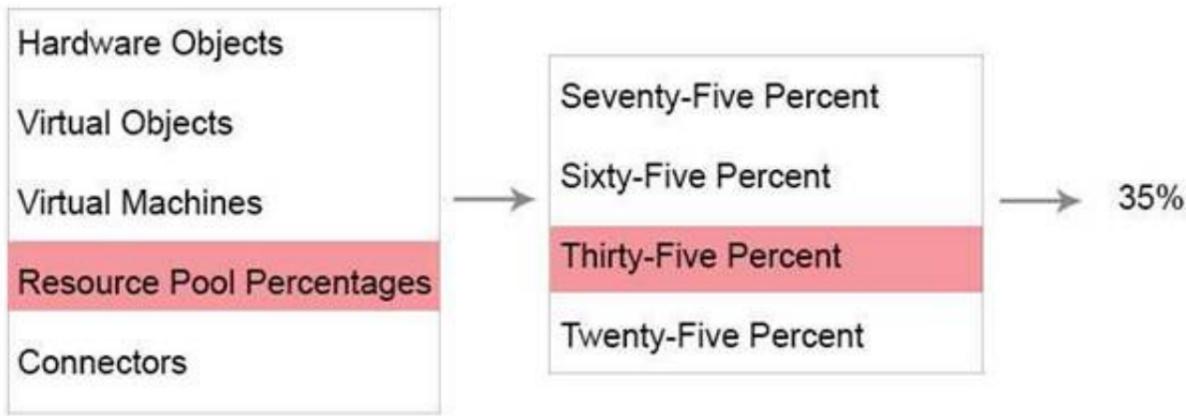
- Hardware Objects
- Virtual Objects
- Virtual Machines
- Resource Pool Percentages**
- Connectors

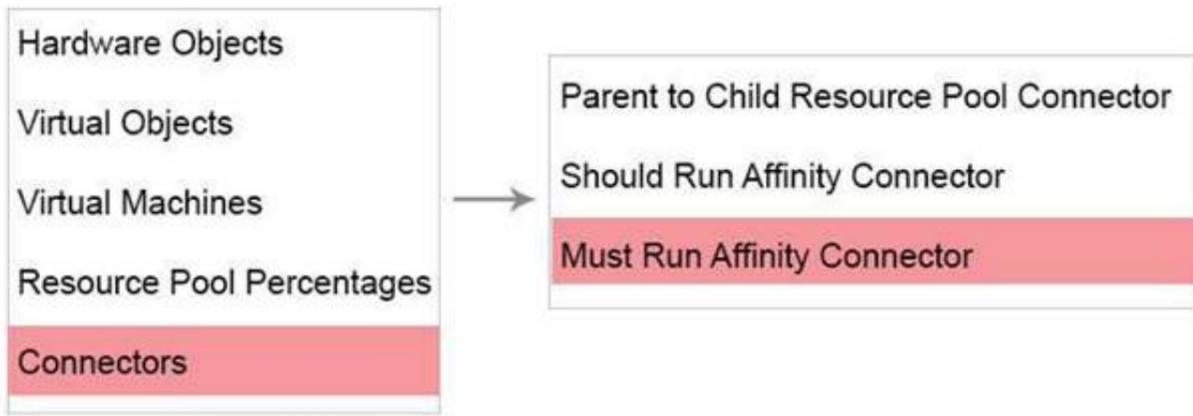


- Seventy-Five Percent
- Sixty-Five Percent**
- Thirty-Five Percent
- Twenty-Five Percent



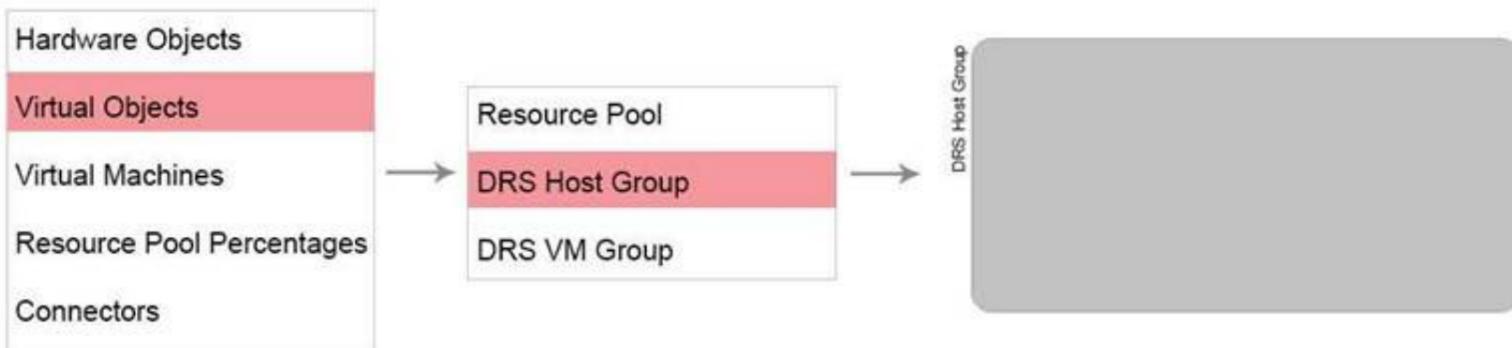
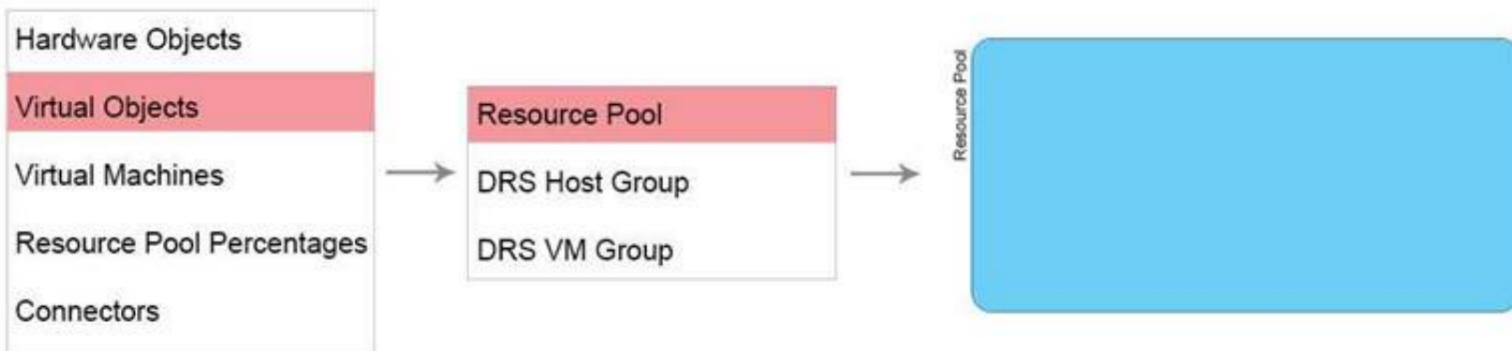
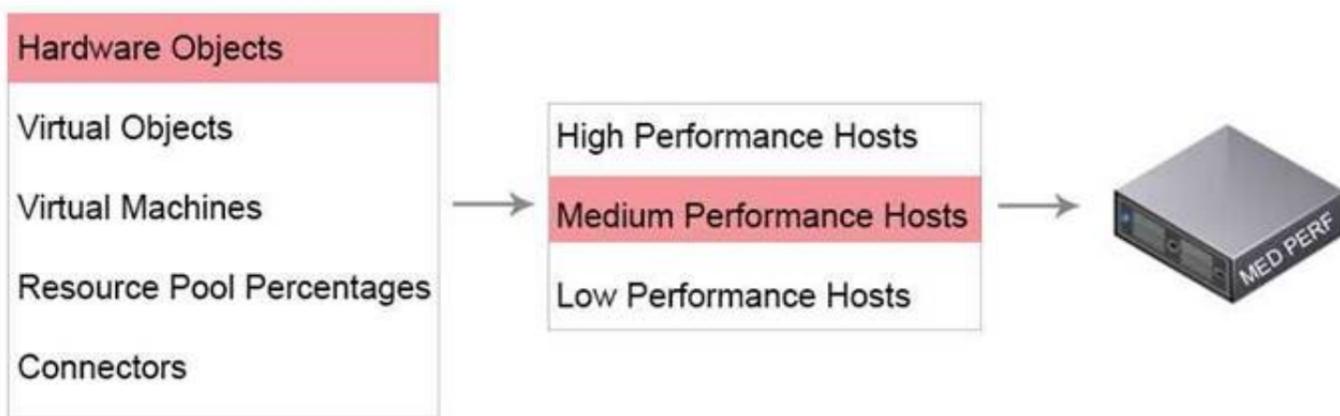
65%

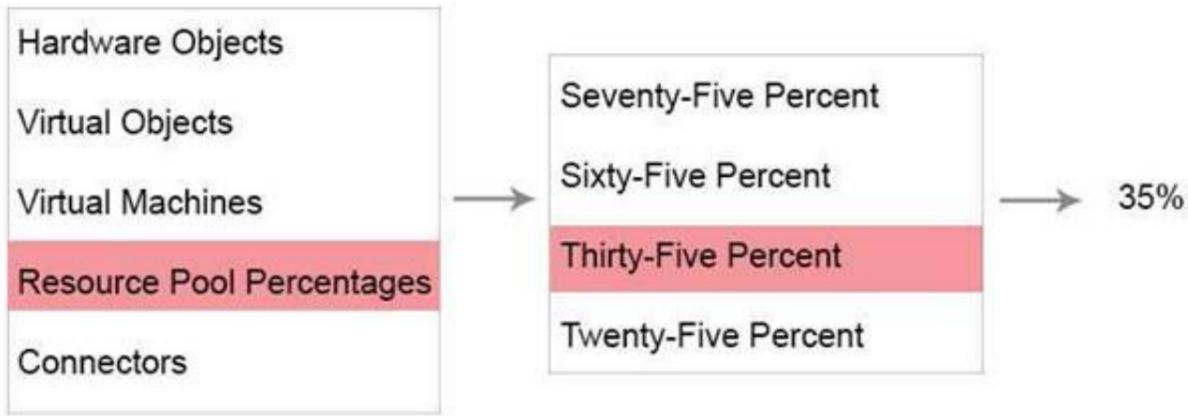


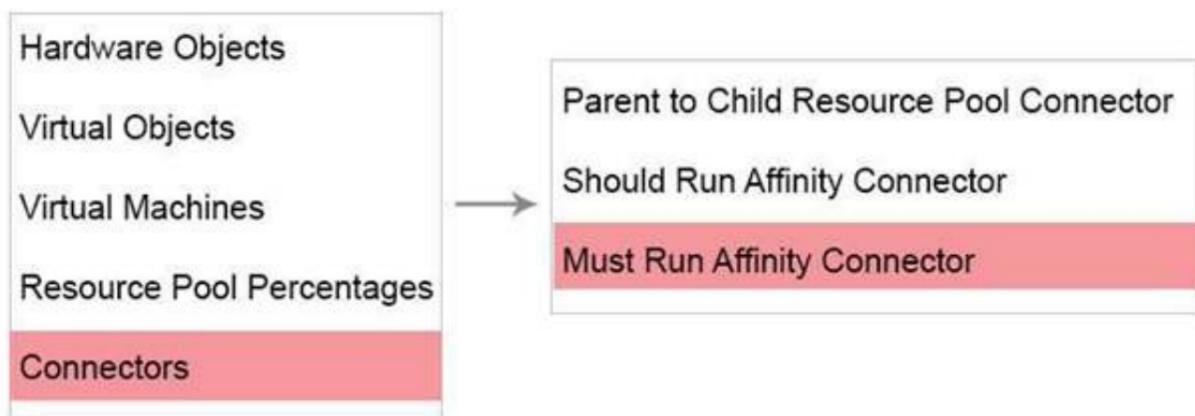
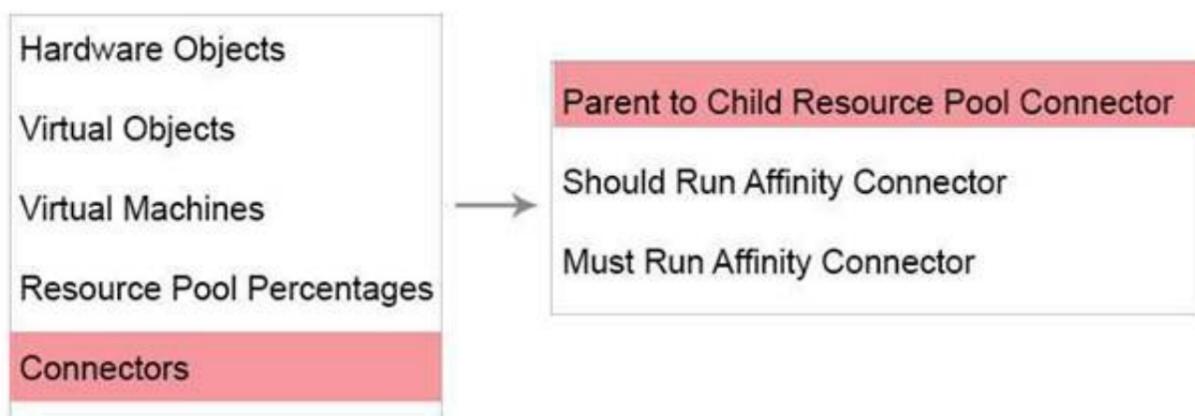


Answer:

Explanation: Check below for answer solution







NEW QUESTION 86

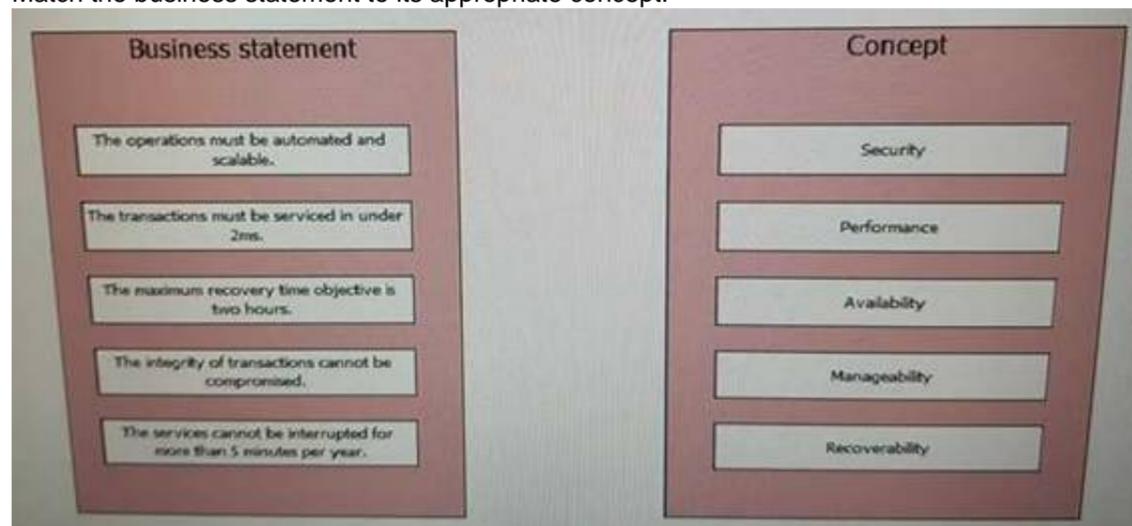
When planning on resource use for the servers, you should plan on leaving resources available for all the following except .

- A. patching
- B. maintenance mode
- C. future growth
- D. log file space

Answer: D

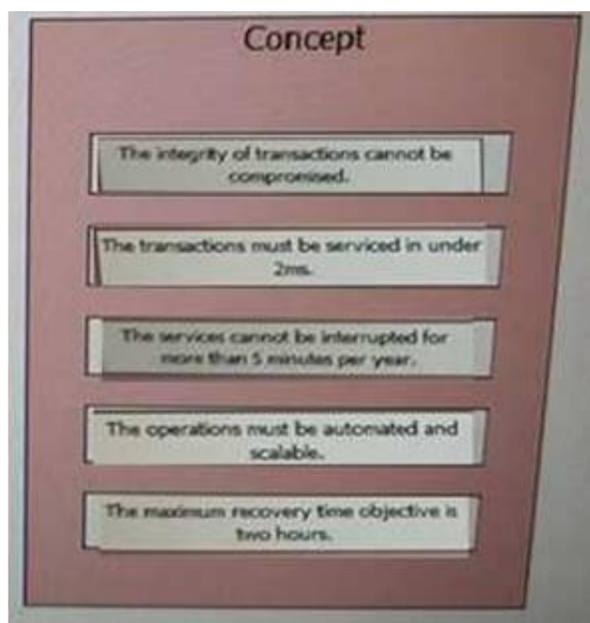
NEW QUESTION 88

Match the business statement to its appropriate concept.



Answer:

Explanation:



NEW QUESTION 93

An architect is designing a vSphere 6.5 implementation.

- The customer requires Cross vCenter vMotion for the newly-created data centers in New York and Houston.
- Each data center will use different IP networks for management and vMotion.

When creating a vMotion network, which two statements are required in order to use Cross vCenter Server vMotion? (Choose two.)

- A. vMotion Networks in both data centers must be in the same L2 stretched VLAN.
- B. The virtual machine port groups must use the same name.
- C. VMkernel port for vMotion must be configured with vMotion TCP/IP Stack with the correct gateway.
- D. vMotion networks in both data centers must be routable over L3 network.

Answer: CD

NEW QUESTION 94

You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has provided a number of requirements, resulting in a preliminary vSphere cluster design shown in the Scenario. The organization has purchased additional servers configured with large amounts of resources (i.e. CPU, RAM) that could be integrated into the cluster design. Consider each vSphere cluster design and determine the benefit of adding additional servers to the design.

Based on customer requirements, a vSphere Cluster design has been defined:	
Cluster A (8 ESXi hosts)	<ul style="list-style-type: none"> - High Performance Resource Pool – 70% of all cluster resources, virtual machines have dedicated reservations for CPU and Memory that do not expand. <ul style="list-style-type: none"> - Contention Present: None - VMs: 20 - Infrastructure Resource Pool – 30% of all resources, virtual machines have dedicated reservations for CPU and Memory that do not expand <ul style="list-style-type: none"> - Contention Present: None - VMs: 12
Cluster B (3 ESXi hosts)	<ul style="list-style-type: none"> - Development Resource Pool – 50% of all resources, virtual machines have no CPU or Memory reservations present. <ul style="list-style-type: none"> - Contention Present: Memory Contended, no CPU Contention - VMs: 18 - Reporting Resource Pool – 50% of all resources, virtual machines memory reservation may expand, no CPU reservation present. <ul style="list-style-type: none"> - Contention Present: Memory Contended, CPU Contended - VMs: 2
Cluster C (6 ESXi hosts)	<ul style="list-style-type: none"> - Client Back-End Hosting Resource Pool – 75% of all resources, virtual machines have CPU and Memory limits <ul style="list-style-type: none"> - Contention Present: Memory Contended - VMs: 5 - Client Front-End Hosting Resource Pool – 25% of all resources, virtual machines have no CPU limits, however memory limits are in place. <ul style="list-style-type: none"> - Contention Present: Memory contended, no CPU Contention

Match the Action on the left by dragging the red buttons (A1-A3) over the text of the corresponding Effect. NOTE: Actions taken might have more than one Effect on the cluster design.

Database Requirements

R1	
R2	Add servers to Cluster A
R3	
	Add servers to Cluster B
	Add servers to Cluster C

Design Characteristics

	Provides additional CPU resources to every virtual machine in the cluster.
	Provides additional memory resources to every virtual machine in the cluster.
	Provides additional CPU resources to some virtual machines in the cluster.
	Provides additional memory resources to some virtual machines in the cluster.
	No benefit to virtual machine CPU resources.
	No benefit to virtual machine memory resources.

Answer:

Explanation:

Database Requirements

R1	
	Add servers to Cluster A
R2	Add servers to Cluster B
R3	Add servers to Cluster C

Design Characteristics

	Provides additional CPU resources to every virtual machine in the cluster.
R3	Provides additional memory resources to every virtual machine in the cluster.
R2	Provides additional CPU resources to some virtual machines in the cluster.
R1	Provides additional memory resources to some virtual machines in the cluster.
	No benefit to virtual machine CPU resources.
	No benefit to virtual machine memory resources.

NEW QUESTION 98

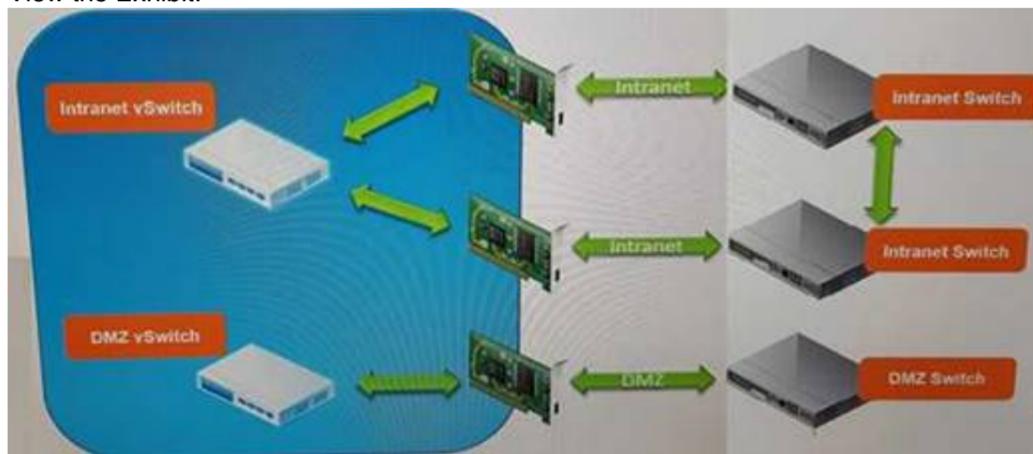
Sort the traffic by whether it can be encrypted natively by vSphere.

Answer:

Explanation: vmotion--> it is supported snmpv3 --> Natively supports message integrity, auth and encryption vSphere client --> Using IPSec for IPv6

NEW QUESTION 102

View the Exhibit.



Referring to the Exhibit, identify the two single points of failure in this design. (Choose two.)

- A. Intranet Switch
- B. Intranet Uplink
- C. Intranet vSwitch
- D. DMZ Switch
- E. DMZ Uplink
- F. DMZ vSwitch

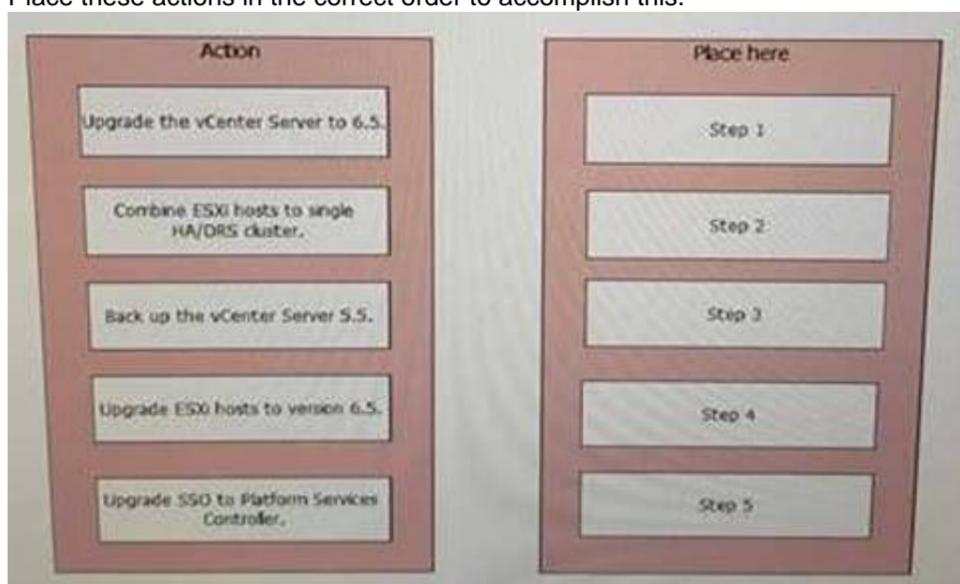
Answer: EF

NEW QUESTION 106

A customer is currently running a vCenter Server 5.5 environment with 48 identically-configured ESXi hosts.

- These ESXi hosts are divided into six 8-host HA/DRS clusters.
- The customer wants to upgrade to vSphere 6.5 and combine all of its ESXi hosts into a single 48-host HA/DRS cluster.

Place these actions in the correct order to accomplish this.



Answer:

Explanation: 1 - Backup vCenter 5.5- 2- Upgrade the SSO to PSC3-3-Upgrade vCenter to 6.5-4- Upgrade ESXi hosts to version 6.5- 5- Combine ESXi hosts to single...

NEW QUESTION 108

A database administrator is operating a virtual machine (VM) configured with 16 vCPU and 64GB of RAM. A recent performance audit has indicated that this virtual machine is oversized and is using less than 60% of its configured CPU and memory capacity.

- The ESXi host that contains this VM has 2 physical processors with 10 cores per processor, and 128GB of RAM.
- This physical host's architecture is split into two equal NUMA nodes.

Which vCPU and RAM configuration for the VM allows for the most resources, but also provides the performance benefit of local NUMA access?

- A. 16 vCPU and 32GB RAM
- B. 4 vCPU and 16GB RAM
- C. 10 vCPU and 64GB RAM
- D. 12 vCPU and 64GB RAM

Answer: C

NEW QUESTION 113

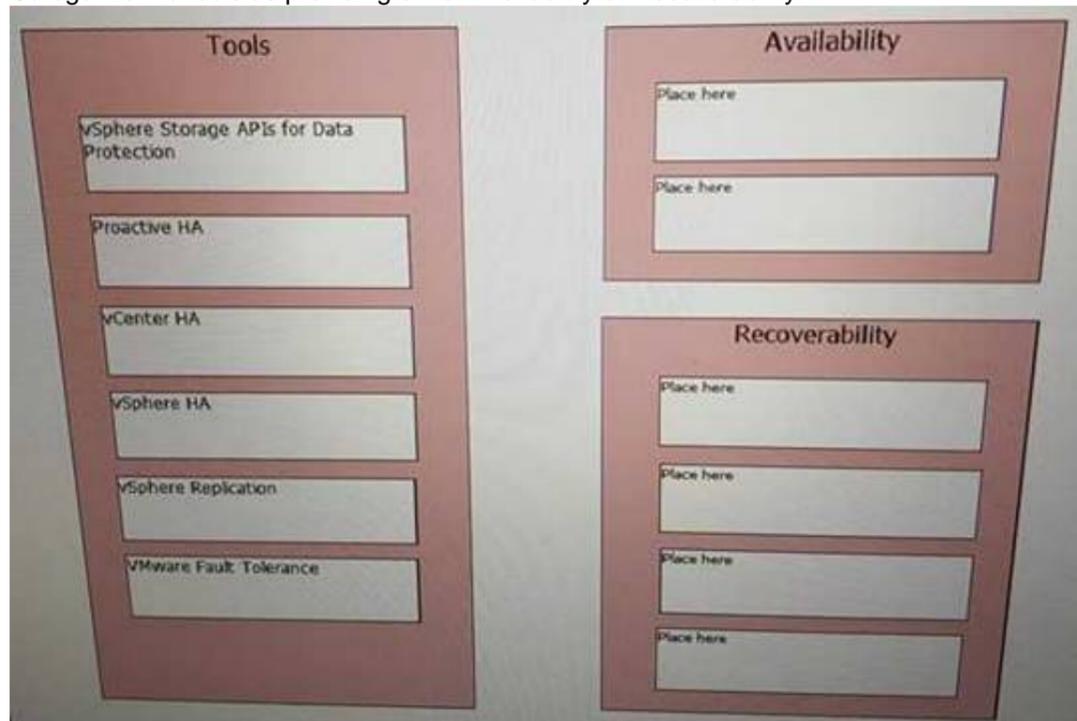
A company would like to leverage snapshot technology on vSphere 6.5. Which configuration supports taking snapshots?

- A. Windows Failover Cluster VM with RDM in virtual mode
- B. vSphere Fault Tolerance VM
- C. Windows Failover Cluster VM with RDM in physical mode
- D. SQL Always On Availability Group

Answer: A

NEW QUESTION 116

Categorize the tools as providing either Availability or Recoverability.



Answer:

Explanation: Availability FTHA Recoverability Proactive HA vCenter HA vSphere Replication VADP

NEW QUESTION 117

A solution architect has been tasked with designing a new environment that meets the needs of a growing company, and has obtained this information:

- The current capacity will be exhausted in 180 days, and the new infrastructure must be deployed and in production prior to that.
- The new servers have a 90-day delivery time.
- A data center for disaster recovery has been selected, and it is 20 miles away and connected by MPLS.
- The security team will continue to utilize its current investments and VM Encryption for the new environment.
- The backup team currently uses Data Domain, and reports show an 8:1 compression and deduplication ratio for backups.

Based on the information obtained, which two statements are assumptions for the new design? (Choose two.)

- A. MPLS will be used to connect the two data centers.
- B. There is 180 days left of current capacity.
- C. Data Domain will get an 8:1 compression and deduplication ratio with the new workloads.
- D. A disaster will NOT affect both data centers.

Answer: BD

NEW QUESTION 122

A customer is deploying a mission-critical Oracle database with high SLA requirements, including high performance and high availability. The customer has chosen to purchase an All-Flash vSAN solution.

Which three storage policies should be used? (Choose three.)

- A. RAID5/6 for data disk and RAID1 for OS disk with FTT=2.
- B. IOPS limit and checksum should be enabled.
- C. RAID5/6 for OS disk and RAID1 for data disk with FTT=2.
- D. Configure multiple disk stripes.
- E. Deduplication and Compression should be disabled.

Answer: CDE

NEW QUESTION 124

You have been tasked with creating a vSphere 6.5 design for an organization. The customer wants to ensure isolation in the network but does not know when to incorporate physical networks, VLANs and PVLANS.

Evaluate the design requirement and determine the isolation method to satisfy the design.

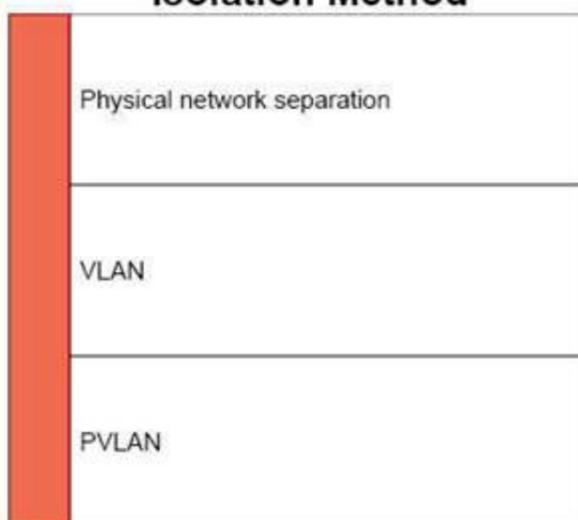
Match each Design Requirement on the left by dragging the red Requirement buttons (R1-R5) over the text of the appropriate Isolation Method.

NOTE: Multiple Design Requirements may fit each Isolation Method.

Design Requirements

R1	Physical network ports equal networks required.
R2	Physical network ports are less than networks required.
R3	Need to limit communication between servers in the same layer 2 network.
R4	Customer has a 10Gb network.
R5	Isolation is particularly important for servers in networks that have some degree of public access, like the servers in a DMZ network.

Isolation Method



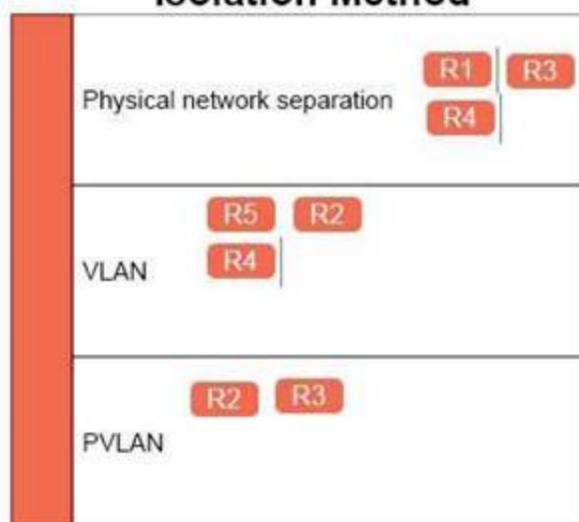
Answer:

Explanation:

Design Requirements

R1	Physical network ports equal networks required.
R2	Physical network ports are less than networks required.
R3	Need to limit communication between servers in the same layer 2 network.
R4	Customer has a 10Gb network.
R5	Isolation is particularly important for servers in networks that have some degree of public access, like the servers in a DMZ network.

Isolation Method



NEW QUESTION 127

A customer is virtualizing a mission-critical Microsoft SQL database and needs a configuration that provides optimal NUMA performance.

- There are two possible clusters that the database virtual machine could reside in: Cluster A is vSphere 6.0 and Cluster B is vSphere 6.5.
 - All ESXi hosts contain dual Intel Xeon E5-2650 v3 processors (ie: 2 socket, 10 cores per socket) and 256Gb RAM with vNUMA in its default configuration.
- Given this scenario, which three statements are true? (Choose three.)

- A. Enabling CPU Hot Add on a virtual machine will disable vNUMA.
- B. Placing a 10 vCPU VM in Cluster A and configuring it with 2 Sockets and 5 Cores Per Socket will result in 2 vNUMA nodes.
- C. Placing a 10 vCPU VM in Cluster B and configuring it with 2 Sockets and 5 Cores Per Socket will result in 2 vNUMA nodes.
- D. Enabling Memory Hot Add on a virtual machine will disable vNUMA.
- E. Placing the VM in Cluster B and configuring it with 5 Sockets and 2 Cores Per Socket will result in 1 vNUMA node.

Answer: ABC

NEW QUESTION 129

Customer Requirements:

You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has produced two 24 port FC switches, and Asymmetrical Active/Active storage array (2 storage Processors with 4 ports each) and 22 ESXi Hosts with 2 dual port HBAs in each. Due to budgetary constraints, the organization cannot purchase anymore equipment. They have provided the following requirements:

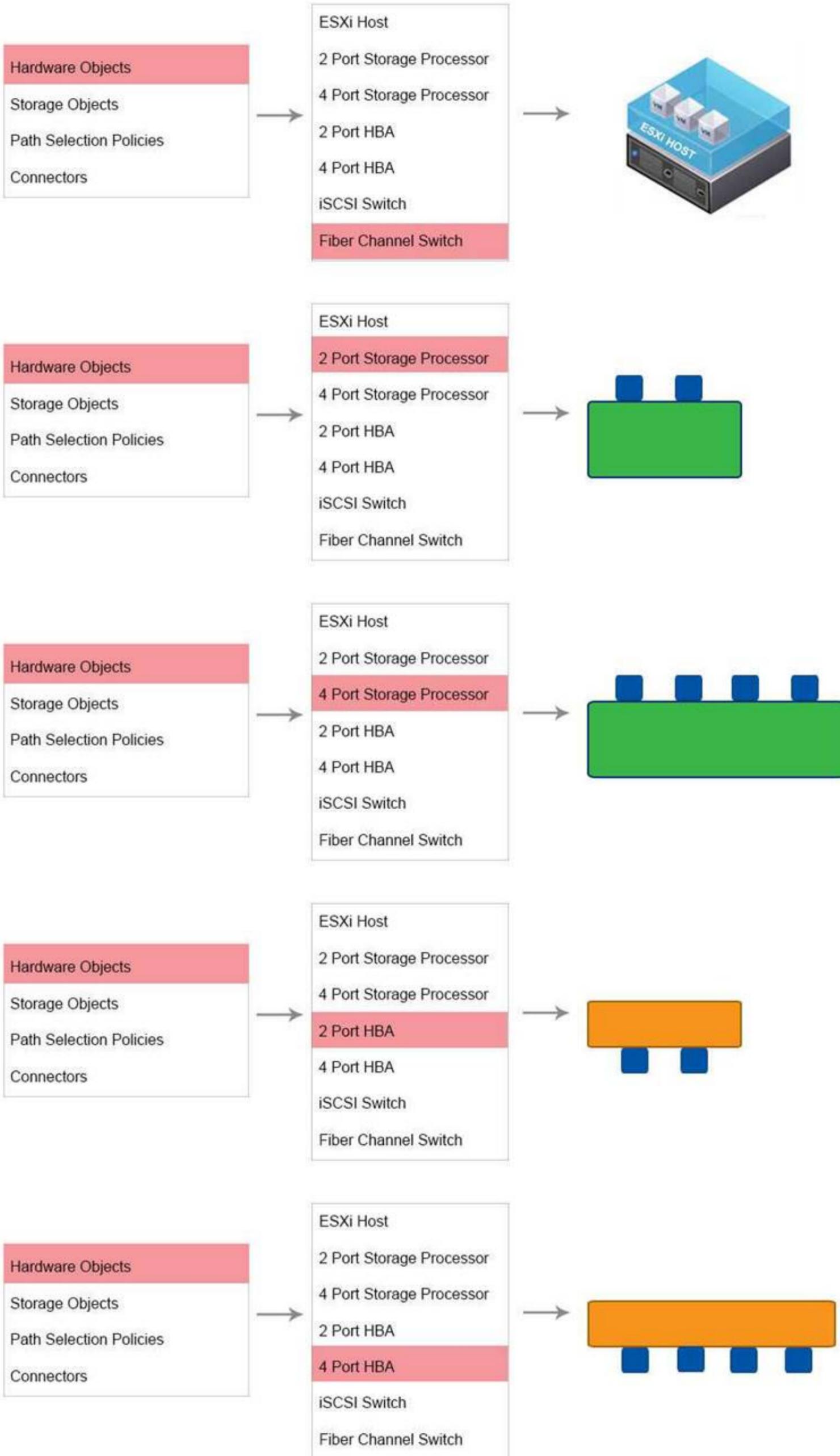
- The existing Fibre Channel (FC) Asymmetrical Active/Active Array and FC switches must be used.
- No single point of failure to any datastore.
- Configuration must provide failover and load balancing.
- The customer requires a solution that will accommodate virtual machines with three different I/O load requirements:
- Static web virtual machines
- Critical application virtual machines.
- Object storage for their database virtual machines.

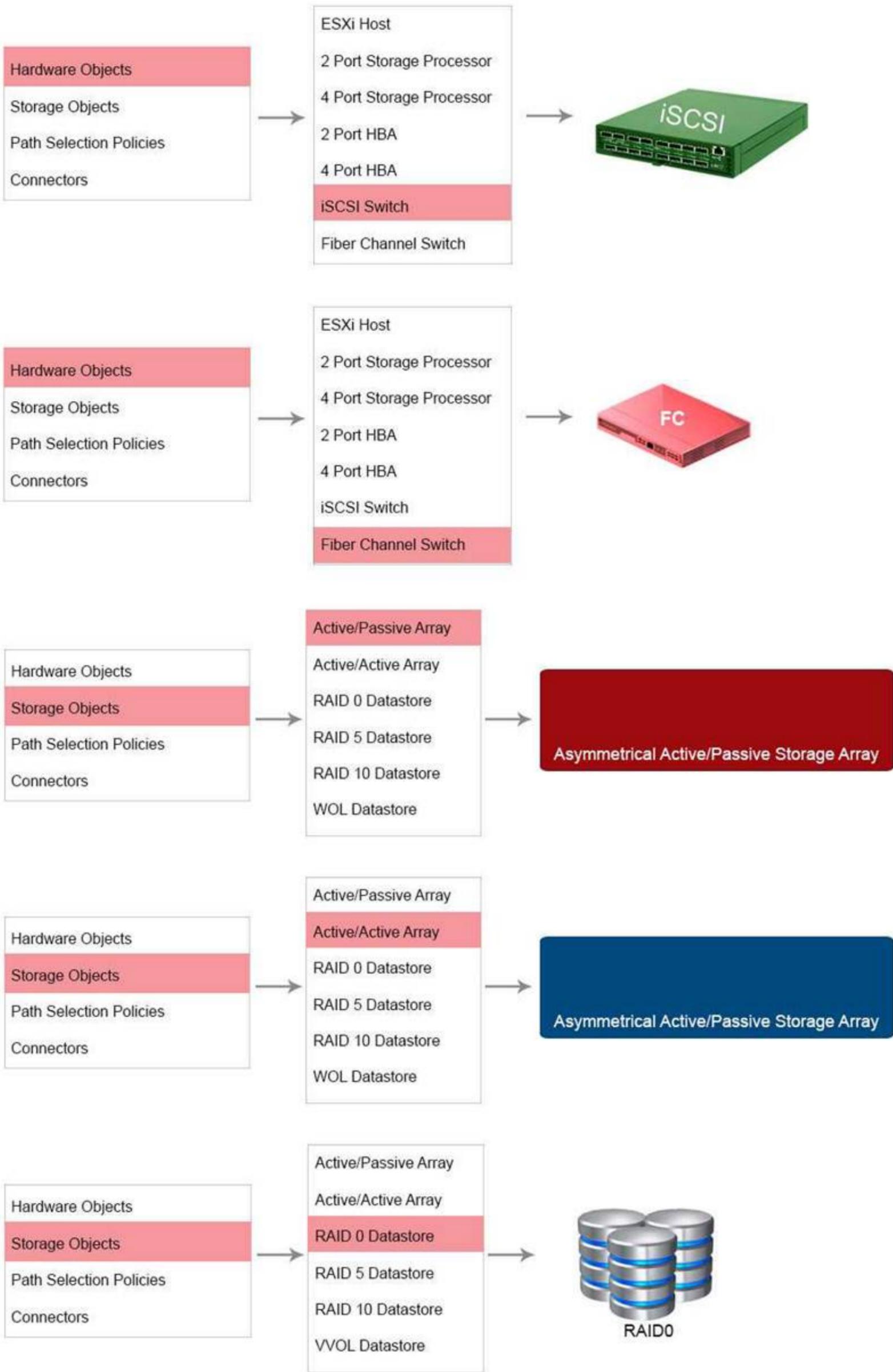
Design Requirements:

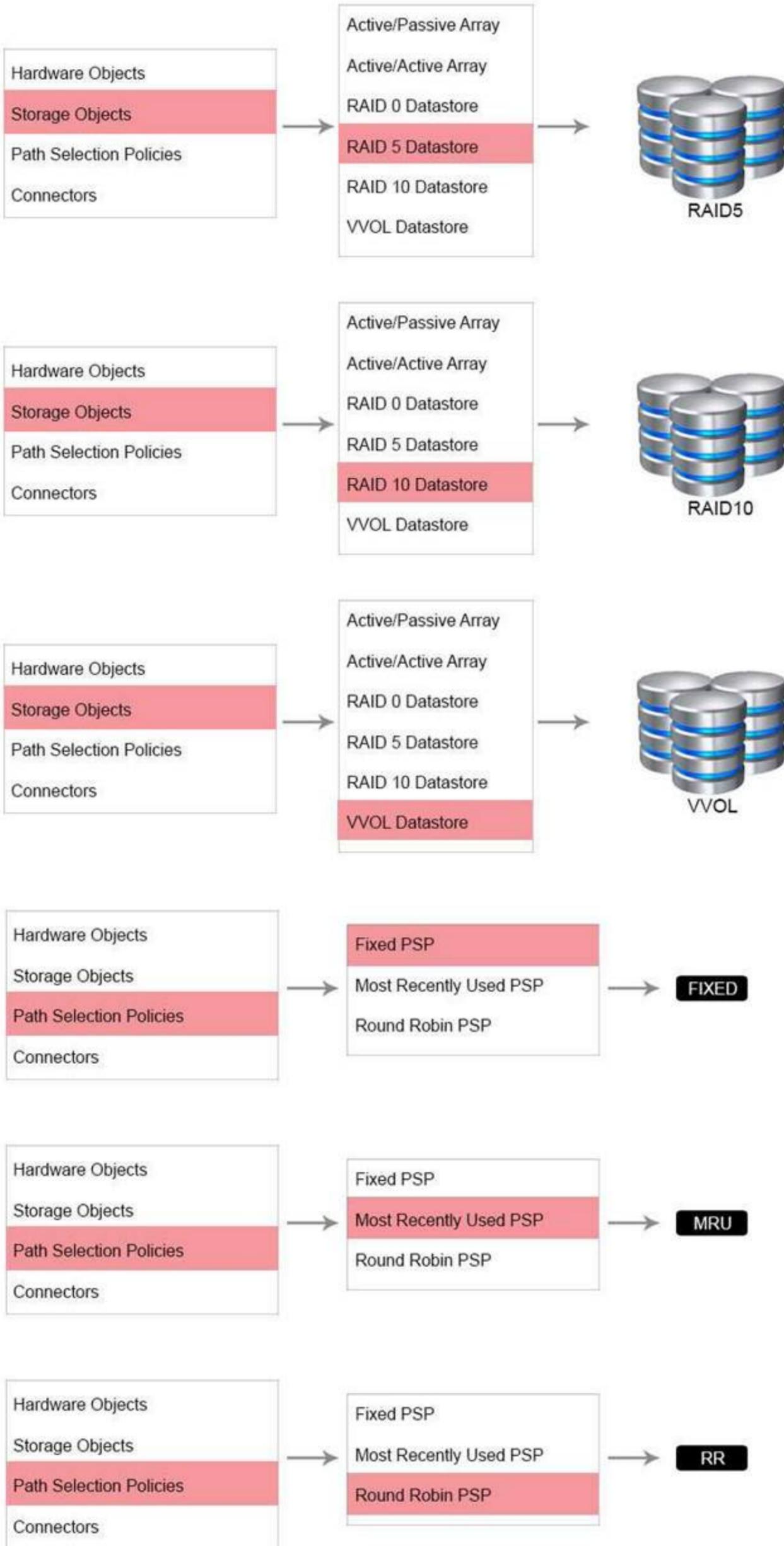
Create a logical design that be applied to each of the ESXi Hosts. The design should meet, but not exceed the customer's requirements and should include:

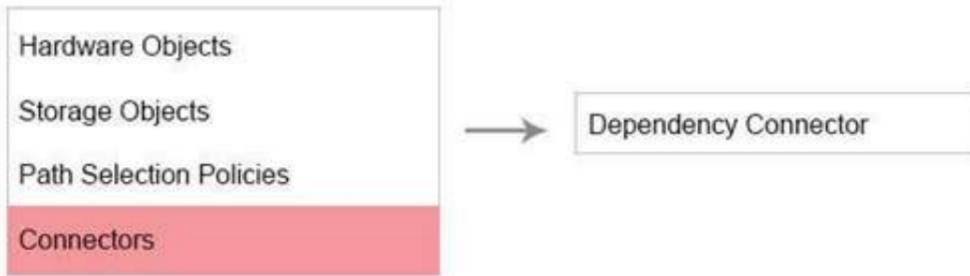
- All required hardware
- All required resources

Place the required datastore(s) in the storage array(s). Connect the storage processor(s) to the storage array(s). Connect the switch(es) to the storage processor(s) and HBA(s). Connect the ESXi host to the HBA(s) and Path Selection Policies.



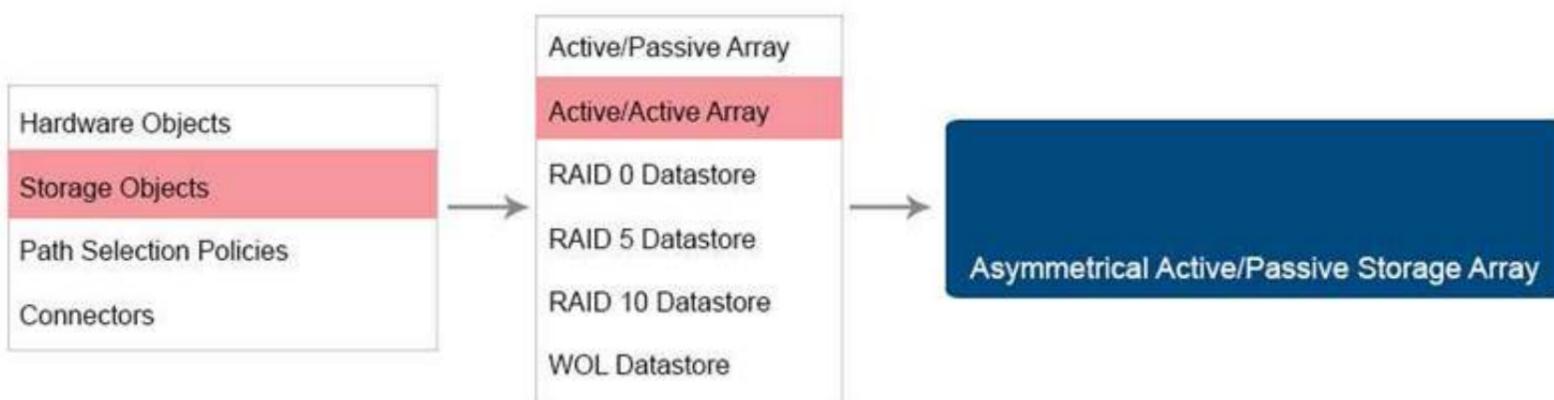
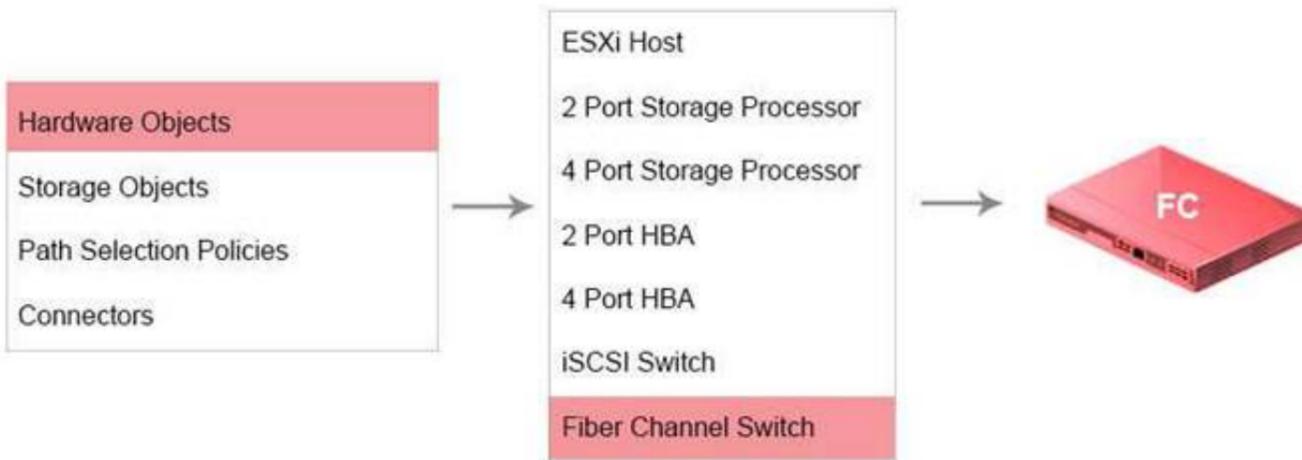
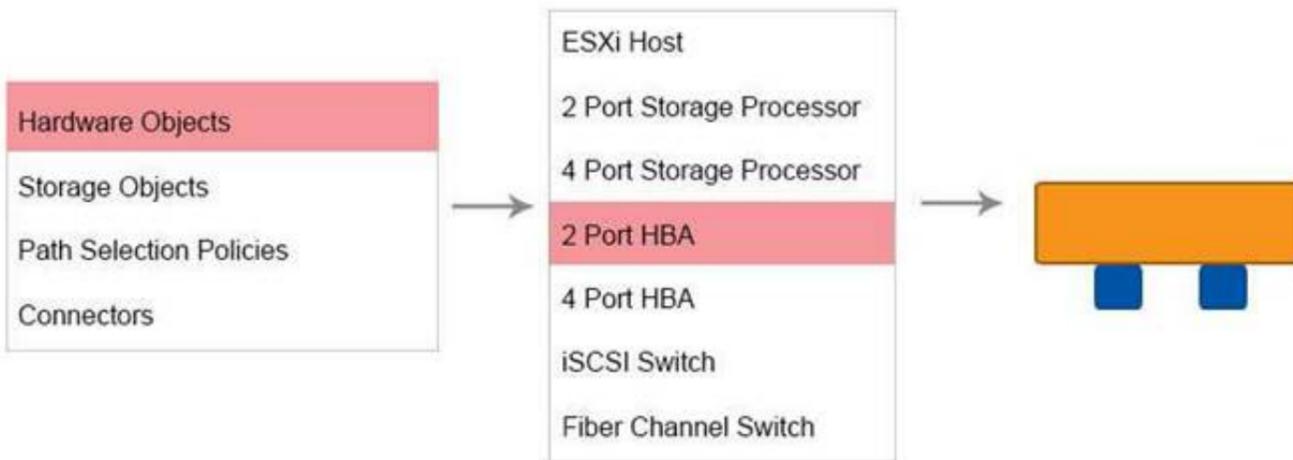
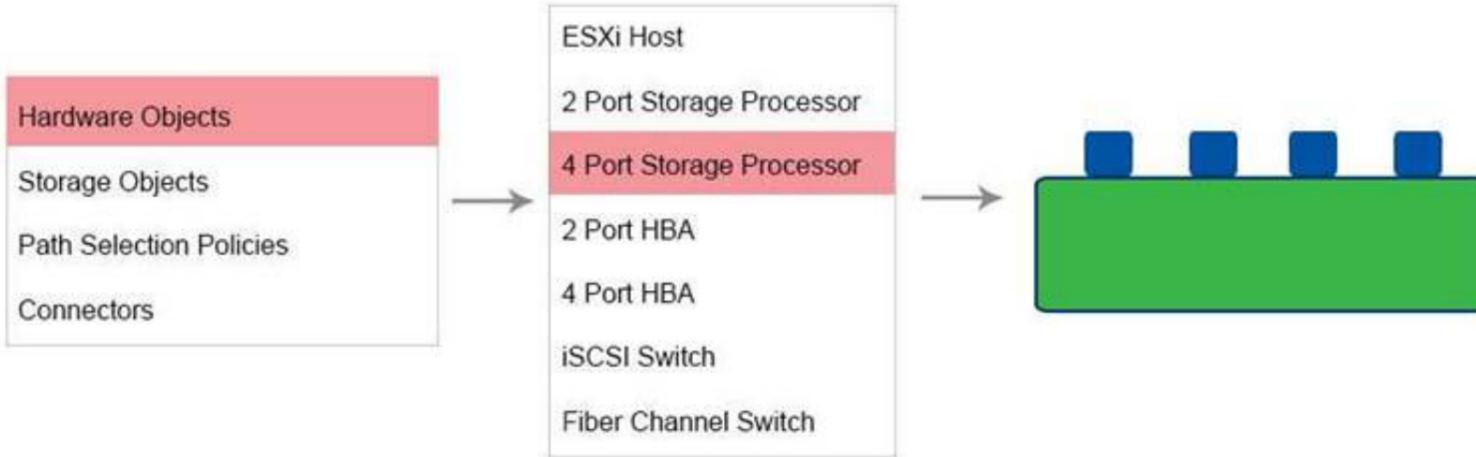


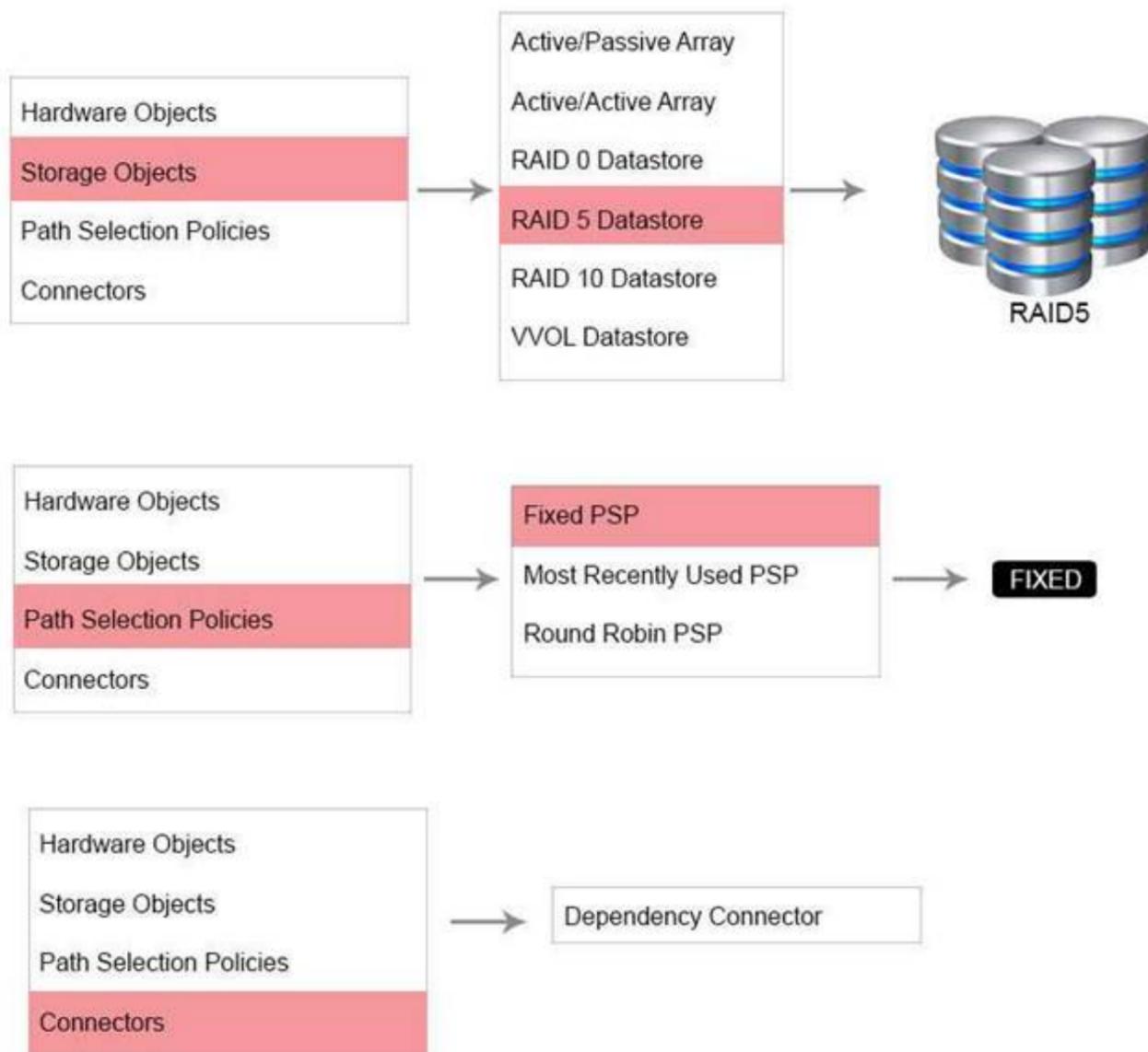




Answer:

Explanation: Check below for answer solution





NEW QUESTION 133

A solution architect has finished conducting interviews and gathering requirements for a company, and has determined that the logical requirements are:

- two data centers for high availability
- synchronous replication to meet the zero minute RPO
- separating management workloads from application workloads
- dedicated 10Gb uplink for each low latency server
- single management port for the entire environment

Which two actions would meet the design requirements? (Choose two.)

- A. Create two data center objects in vCenter Server.
- B. Configure vSAN Stretched Clustering.
- C. Configure SR-IOV for low latency servers.
- D. Create one folder for Management workloads and one folder for application workloads.

Answer: BD

NEW QUESTION 134

A customer is using a vSphere APIs for Storage Awareness (VASA) compatible storage array. The VASA provider is published as a virtual appliance. To ensure recoverability, where must the VASA prowler and vCenter server virtual machines be stored?

- A. The VASA provider and vCenter Server will be placed on the standard datastore (VMFS, NFS).
- B. The VASA provider and vCenter Server will be placed on the vVol datastore.
- C. The vCenter Server will be placed on the vVol datastore and the VASA provider will be placed on the standard datastore (VMFS, NFS).
- D. The VASA provider will be placed on the vVol datastore and the vCenter Server will be placed on the standard datastore (VMFS, NFS)

Answer: A

NEW QUESTION 135

A business organization has different types of network traffic, and all the types of traffic must be kept separated. The design architect knows that the number of required networks is greater than the number of physical ports in the system.

Which three choices can the architect use to keep the traffic separated? (Choose three.)

- A. Combine vMotion, Management, and vSAN to one VMkernel port.
- B. Configure VLANs to create separate networks.
- C. Purchase hardware that supports a greater number of network ports.
- D. Utilize Private VLANs.

Answer: BCD

NEW QUESTION 137

The system administrator team is planning to upgrade its vCenter Server 5.5 environments to version 6.5.

- Each vCenter 5.5 is pointing to a Single Sign On (SSO) server that has a dedicated virtual machine.
 - The SSO servers are currently in independent SSO domains.
 - During the upgrade process, the administrators would like to combine their two SSO domains into a single one.
- View the exhibit.



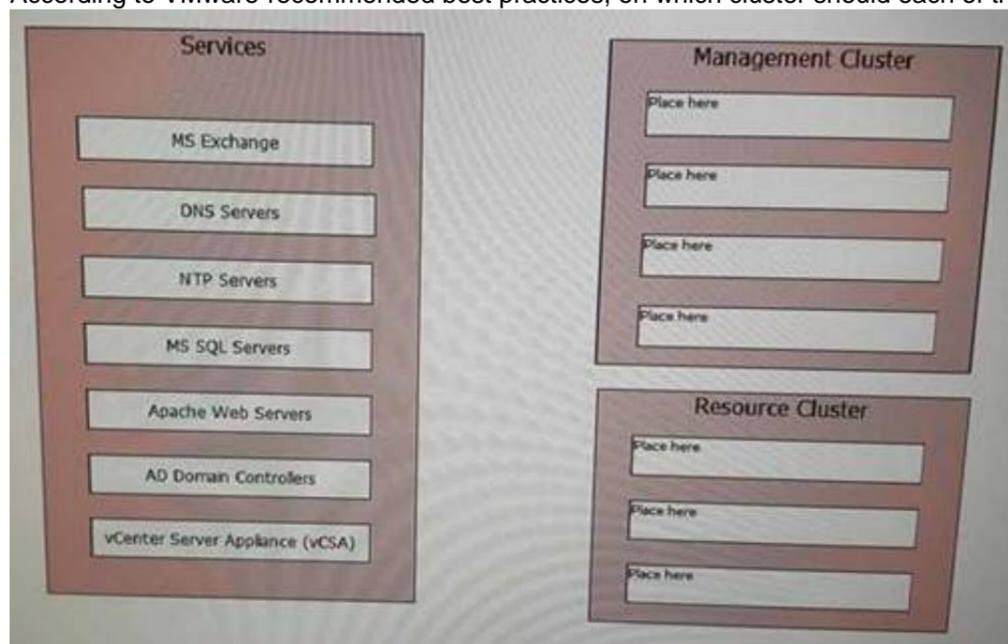
Referring to the exhibit, which upgrade scenario would accomplish this?

1. Upgrade the Denver SSO server to a 6.5 PSC.2. Upgrade the Denver vCenter Server 5.5 to version 6.5.3. Use the migration utility to upgrade the New York vCenter Server to 6.5.4. Choose to join it to the Denver PSC.
1. Upgrade the Denver SSO server to a 6.5 PSC.2. Use the migration utility to upgrade the New York SSO server.3. Choose to join the existing SSO domain during the second upgrade.4. Upgrade both of the vCenter Servers to 6.5.
1. Upgrade both of the SSO servers to 6.5 PSCs.2. Upgrade both of the vCenter Servers to 6.5.3. Install a new 6.5 PSC in the same SSO domain as the Denver 6.5 PSC.4. Repoint the New York vCenter Server to the newly-installed PSC.
1. Install a new New York SSO 5.5 server in the same SSO domain as the Denver SSO server.2. Repoint the New York vCenter Server to the newly-installed SSO server.3. Upgrade both SSO servers to 6.5 PSCs.4. Upgrade both vCenter Servers to 6.5.

Answer: D

NEW QUESTION 139

According to VMware-recommended best practices, on which cluster should each of the services be placed?



Answer:

Explanation: Management DNS Servers VCSA AD Domain NTP Servers Resource MS Exchange MS SQL Apache Web

NEW QUESTION 141

When configuring HA, which admission control policy should be used?

- Host Failure Cluster Tolerates
- CPU and Memory Percentage for Failover
- Standby Host
- None of the above

Answer: B

NEW QUESTION 142

A solution architect has finished conducting interviews and gathering requirements for a company, and has determined that the logical requirements are:

- two data centers for high availability
- synchronous replication to meet the zero minute RPO
- separating management workloads from application workloads
- dedicated 10Gb uplink for each low latency server
- single management point for the entire environment

Which two actions would meet the design requirements? (Choose two.)

- Configure 1 Port Group with a dedicated 10Gb Uplink for low latency servers.

- B. Deploy two clusters, one for management workloads and one for application workloads.
- C. Build 2 Port Groups, one for management servers and one for application servers.
- D. Install two vCenter Servers in Enhanced Link Mode.

Answer: AB

NEW QUESTION 145

You have been tasked with creating a vSphere 6.5 data center design for an organization. During the key stakeholder and SME interviews, a set of goals, requirements, assumptions and constraints were identified. Evaluate each of the requirements, assumptions, and constraints (RAC) and determine which design characteristics apply.

Match each of the Requirements, Assumptions and Constraints by dragging the RAC buttons (R1-R5) over the text of the appropriate Design Characteristic.

NOTE: RACs may fit one or more of the Design Characteristics.

RAC	Design Characteristic
<p>R1 All hosts per location are configured uniformly and all differences or changes are tracked.</p>	Availability
<p>R2 The implementation should be easily repeatable.</p>	Manageability
<p>R3 Deployment of system and services should be automated.</p>	Performance
<p>R4 The custom order processing system at the primary site must be kept running with no downtime.</p>	Recoverability
<p>R5 All production servers should be segregated.</p>	Security

Answer:

Explanation:

RAC	Design Characteristic
<p>R1 All hosts per location are configured uniformly and all differences or changes are tracked.</p>	Availability R3 R4
<p>R2 The implementation should be easily repeatable.</p>	Manageability R5
<p>R3 Deployment of system and services should be automated.</p>	Performance R4
<p>R4 The custom order processing system at the primary site must be kept running with no downtime.</p>	Recoverability R2
<p>R5 All production servers should be segregated.</p>	Security R1

NEW QUESTION 150

A solutions architect has made the following design decisions:

- Leverage existing hardware that is certified on earlier versions of vSphere but is NOT on HCL for ESXi 6.5.
 - Upgrade vCenter Server to version 6.5.
 - Configure separate clusters based on ESXi versions 5.5, 6.0, and 6.5 for newly purchased, certified hardware.
 - The underlying CPU family is compatible.
 - There is enough resources available to vMotion virtual machines (VMs)
- Given this scenario, what is the correct statement about the ability to vMotion virtual machines between versions of ESXi?

- A. VMs created in vSphere 5.x must be upgraded first to newer virtual hardware and then be vMotioned to vSphere 6.5.
- B. VMs created in vSphere 6.5 environment with default settings can be moved to ESXi 5.x.
- C. VMs can be vMotioned to the same or newer version of ESXi.
- D. VMs that are created after the vCenter Server 6.5 upgrade can be vMotioned between any supported versions of ESXi.

Answer: C

NEW QUESTION 153

You have been tasked with creating a vSphere 6.5 data center design for an organization. After interviewing key stakeholders and subject matter experts for a new implementation, it was determined that:

1. Existing network infrastructure should be sufficient.
2. HIPPA compliance must be maintained.

3. Mission critical applications must be recoverable.
 4. Provide training to staff to ensure they can support the implementation.
 5. IT department capital investment has been agreed upon and approval is nearly complete.
 For each statement, you must determine if the statement should be categorized as an assumption, constraint, requirement or risk.
 Match each Business Statement by dragging the red Statement buttons (S1-S5) over the text of the appropriate Categorization.
 NOTE: Statements can have more than one Categorization.

Business Statement		Categorization	
S1	Approved capital investment		Assumption
S2	Recovery of mission critical applications		Constraint
S3	Sufficient network infrastructure		Requirement
S4	HIPPA Compliance		Risk
S5	Educating current staff		

Answer:

Explanation:

Business Statement		Categorization	
S1	Approved capital investment		Assumption S2 S3
S2	Recovery of mission critical applications		Constraint S4
S3	Sufficient network infrastructure		Requirement S1 S5
S4	HIPPA Compliance		Risk
S5	Educating current staff		

NEW QUESTION 155

Customer Requirements:

You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has provided a number of Business Continuity and Disaster Recovery (BC/DR) requirements to meet their established Service Level Agreements (SLAs). The preliminary design will include two sites.

Production Site:

- 6 ESXi hosts in two clusters
- A Fiber Channel storage array with three types of storage:
 1. Flash storage
 2. 15K SAS drives with vFlash Read Cache
 3. SATA drives in RAID 5 configuration

Secondary Site:

- 3 ESXi hosts in a single cluster
 - A Fiber Channel storage array of the same type and with the same configuration as that of the production site
- The details of the organization's SLAs include:
- Gold: Maximize read/write storage performance and provide automated offsite recovery with an RPO < 15 minutes.
 - Silver: Maximize read performance and provide automated offsite recovery with an RPO from 15 minutes to 24 hours.
 - Bronze: No performance requirement. Onsite recovery with no specific RPO.

The organization has a number of web-based multi-tier applications that are governed by their SLAs. The workloads in these applications and their SLA assignments include:

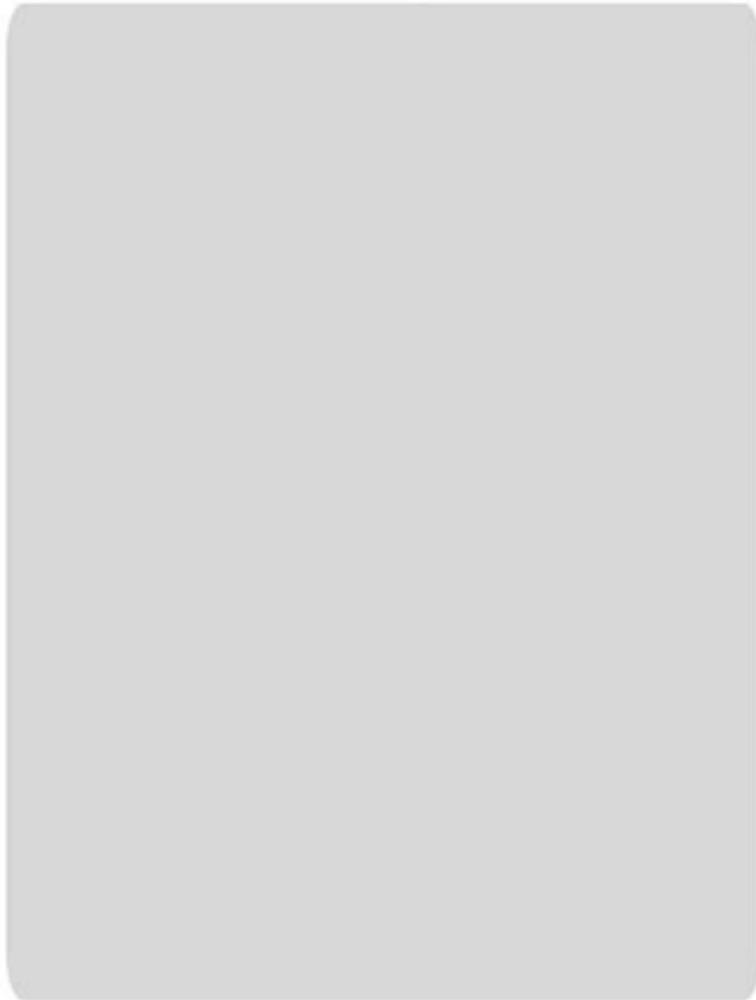
- Database workloads – Gold
- Application workloads – Silver
- Web workloads – Bronze

Note that Web servers only contain static information that is site specific. Design Requirements:

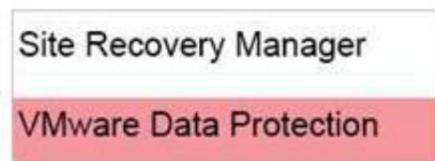
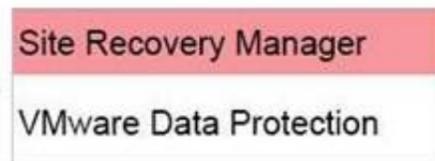
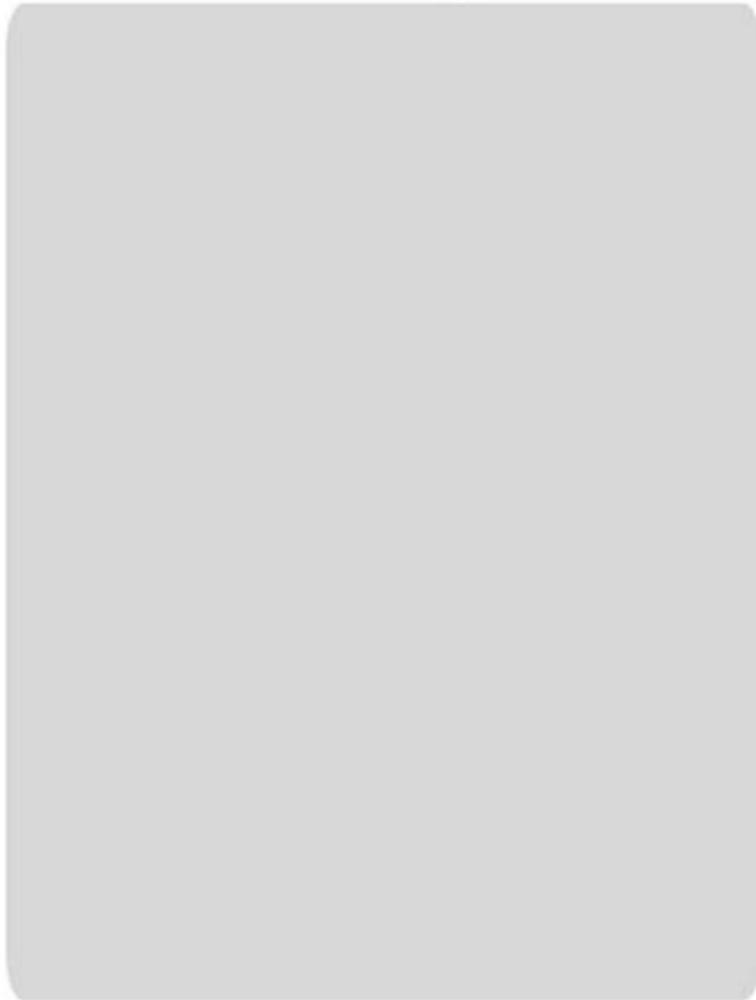
Create a design that incorporates the required elements:

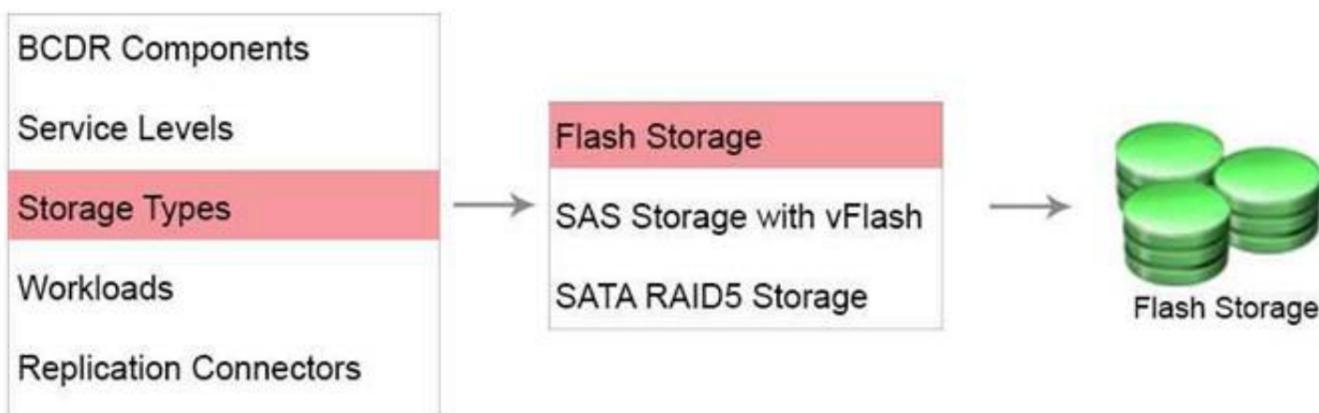
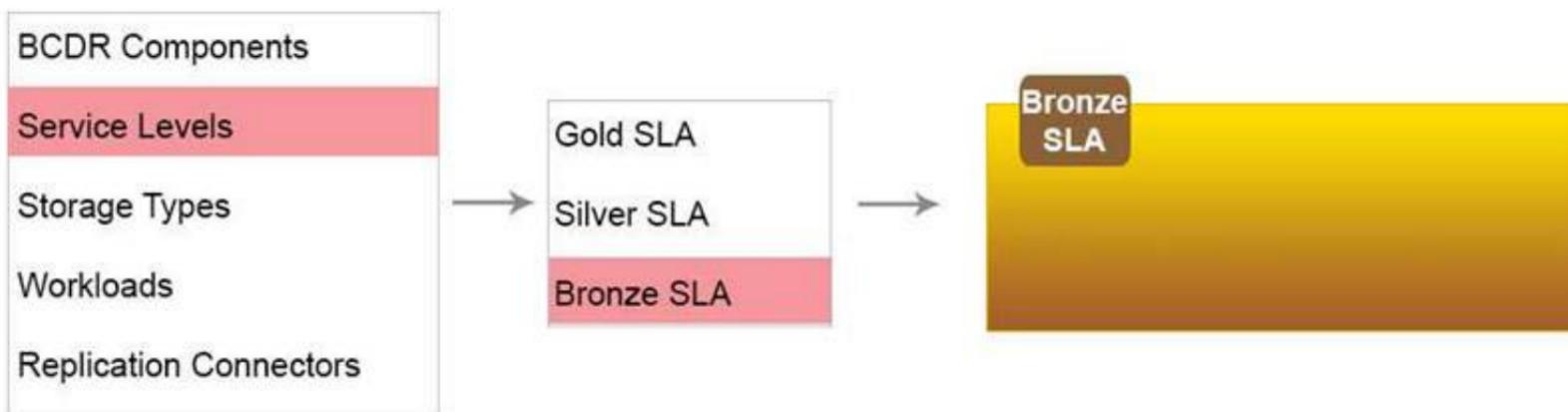
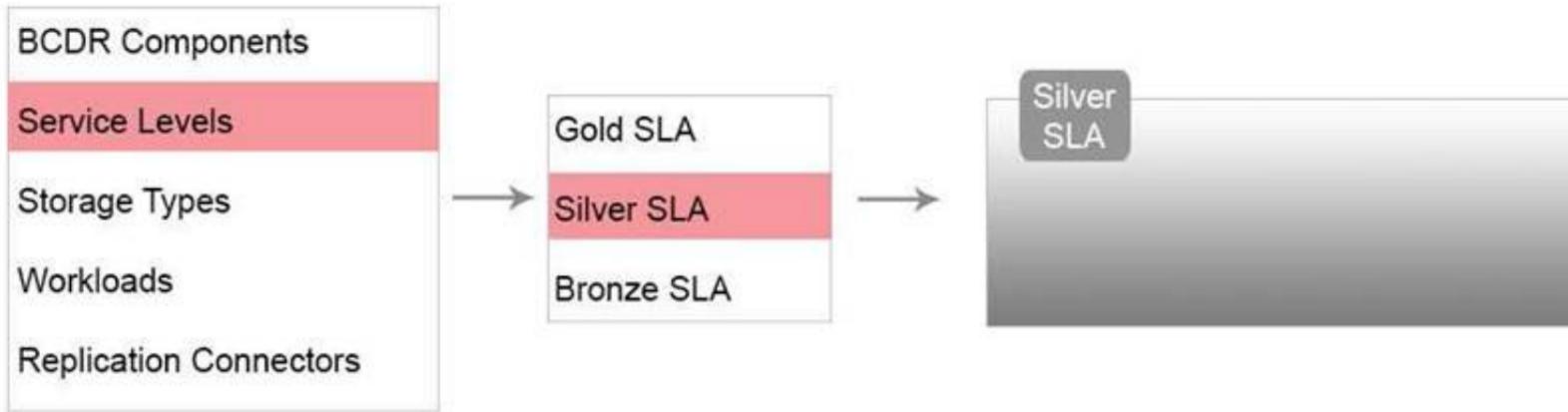
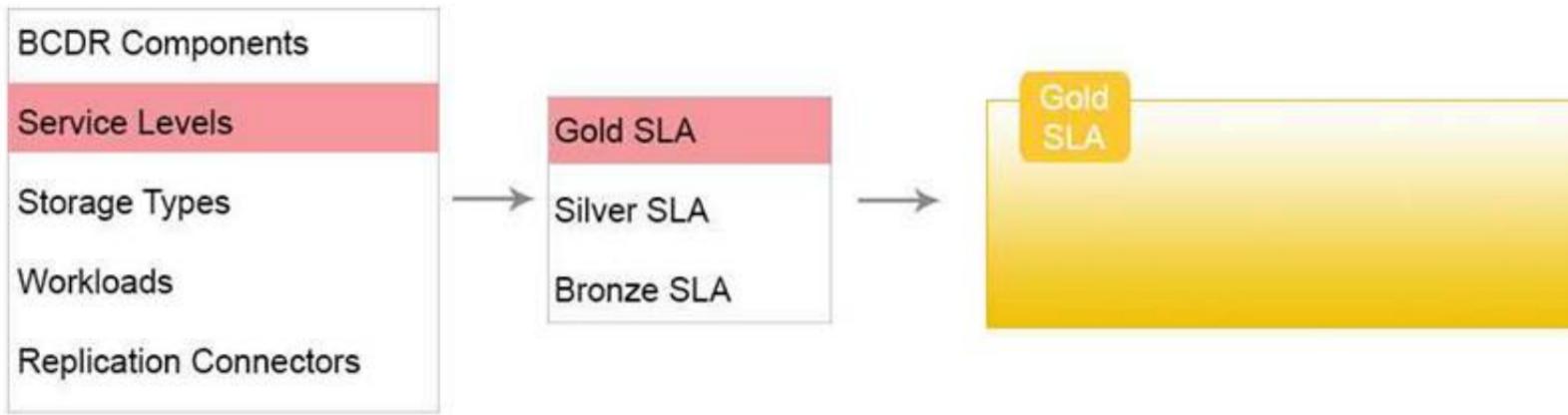
- Place an SLA container for each of the appropriate SLAs into the appropriate sites.
- Place the appropriate storage type(s) for each SLA into the SLA container.
- Place the appropriate workload(s) into the SLA containers.
- Place the appropriate BCDR components into the SLA containers.
- Connect any replicated storage between the two sites using the appropriate replication connector.

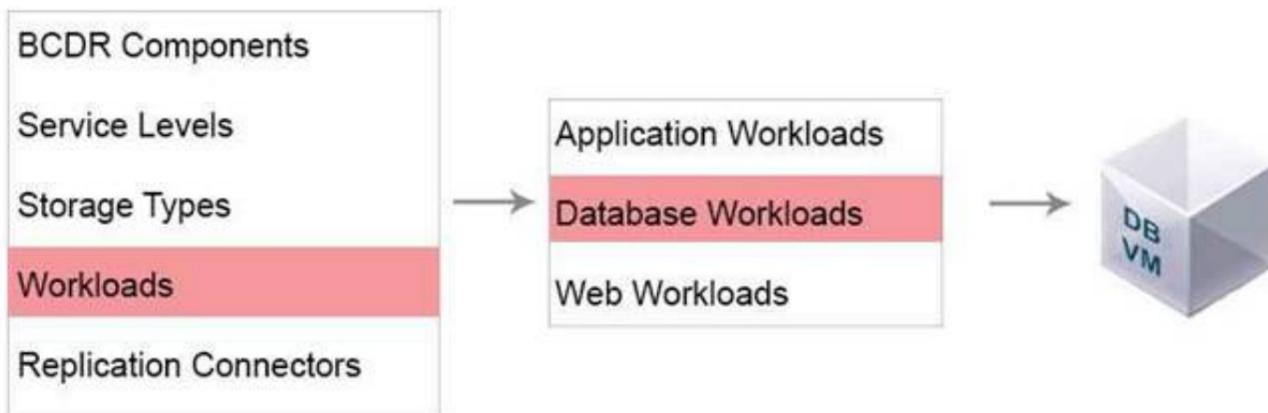
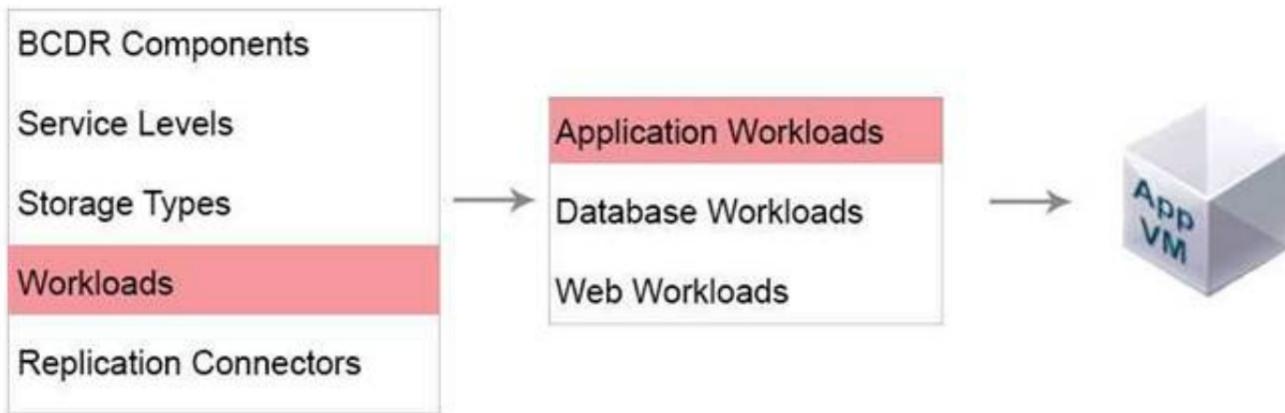
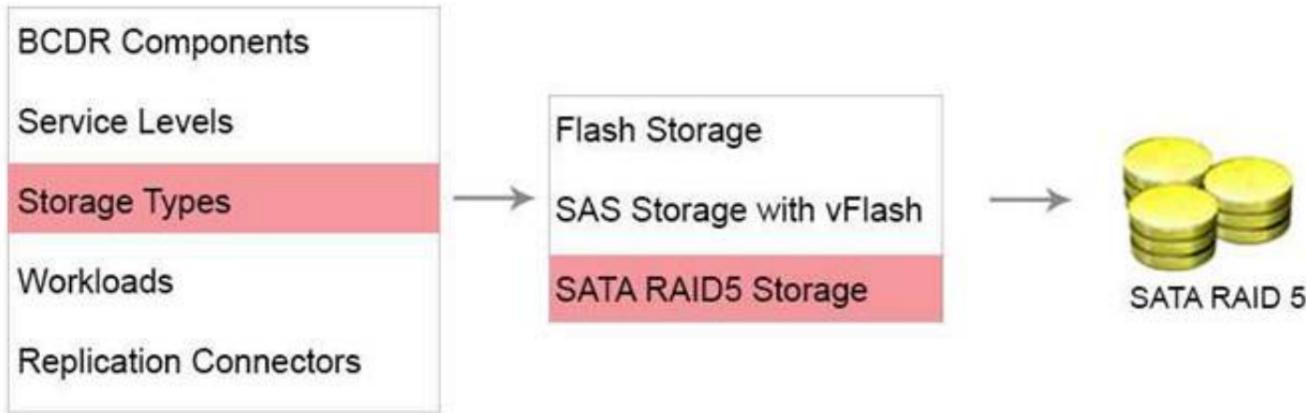
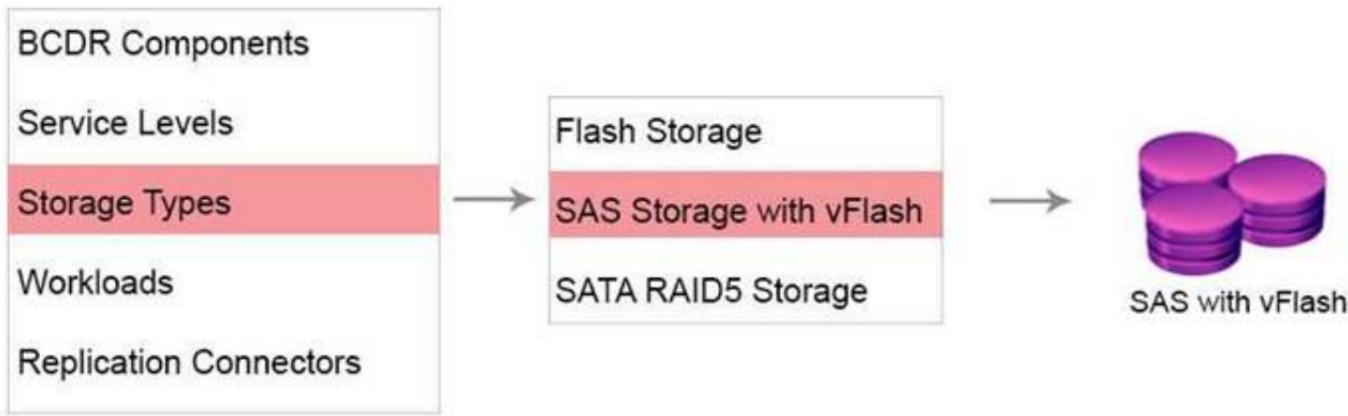
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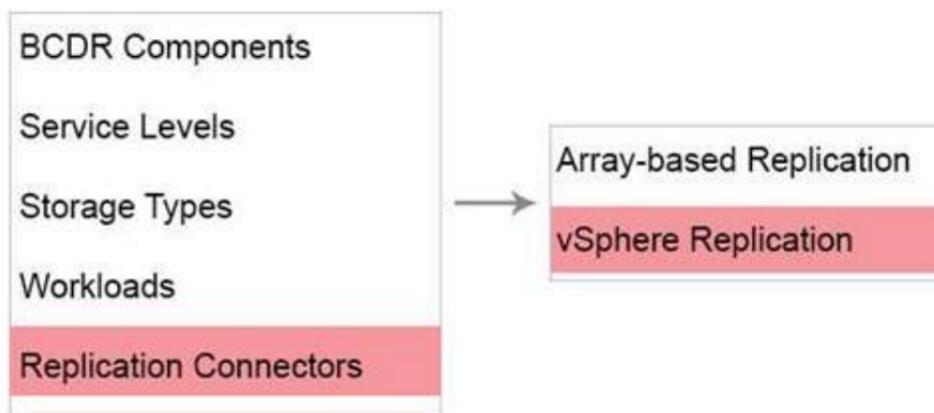
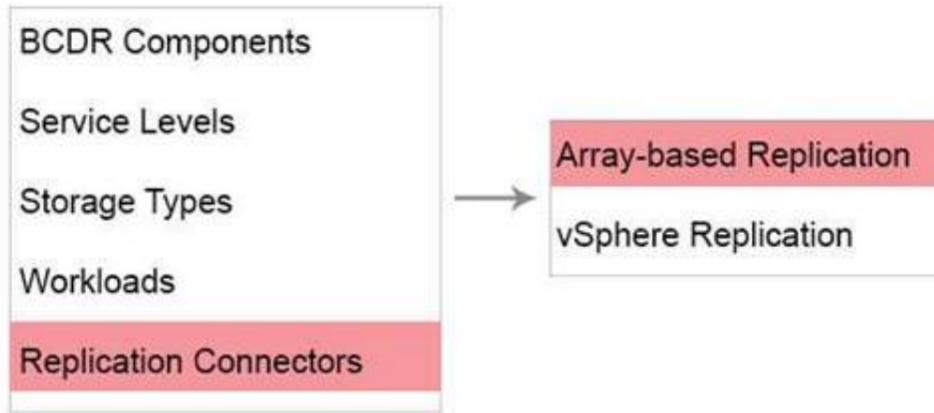
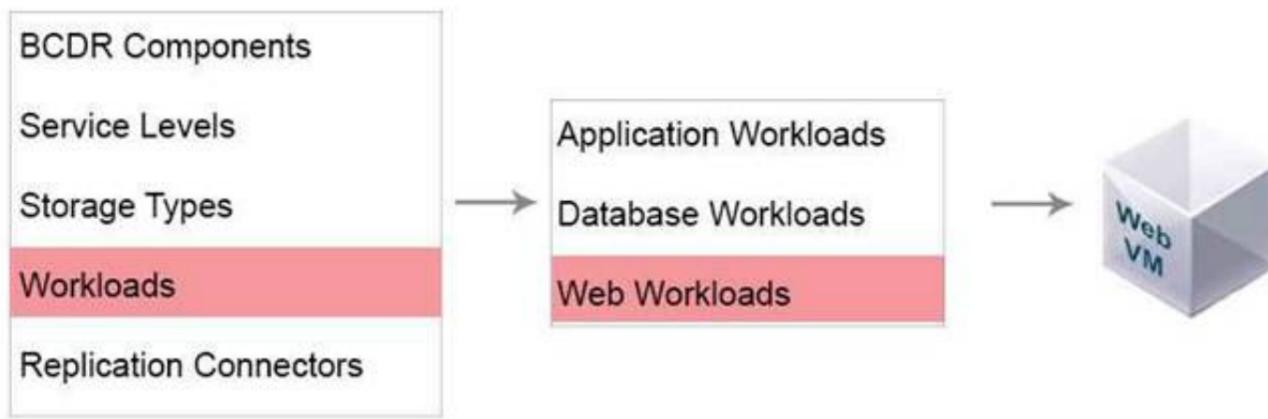


Secondary



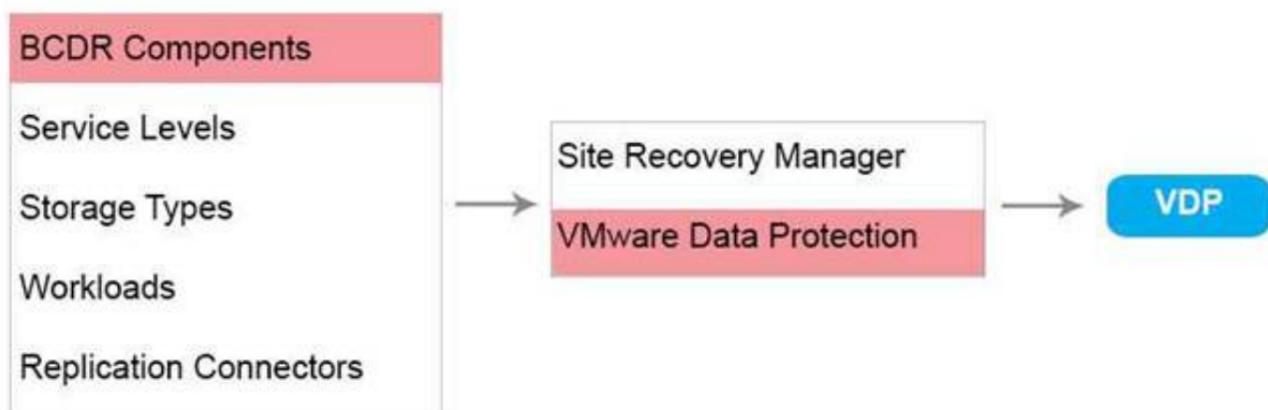


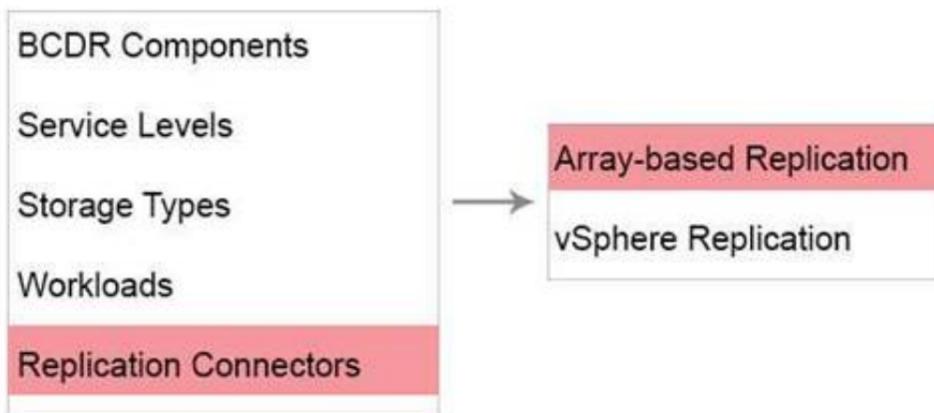
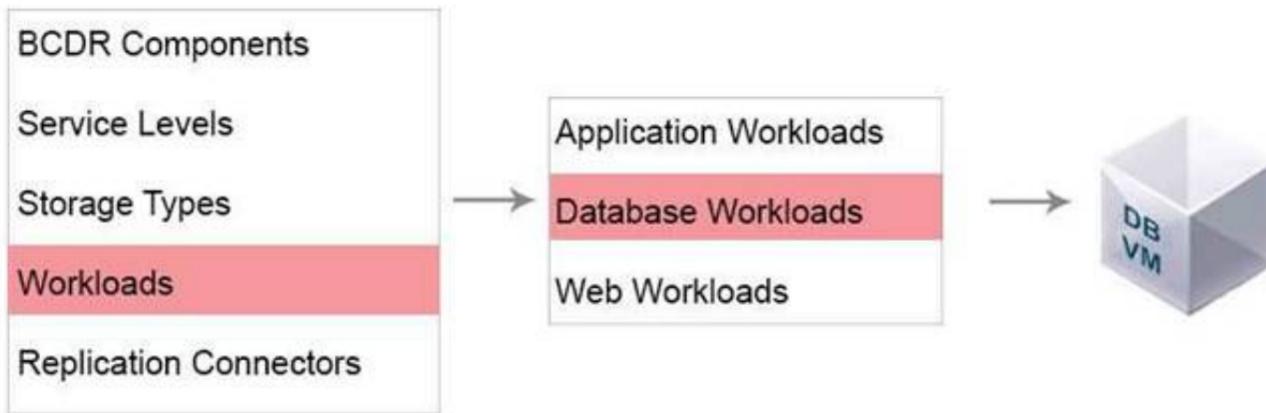
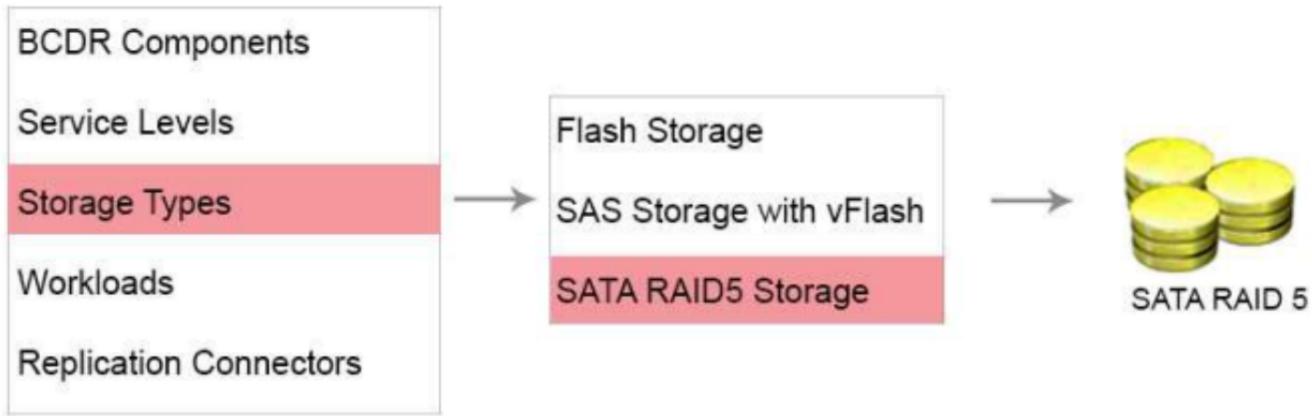
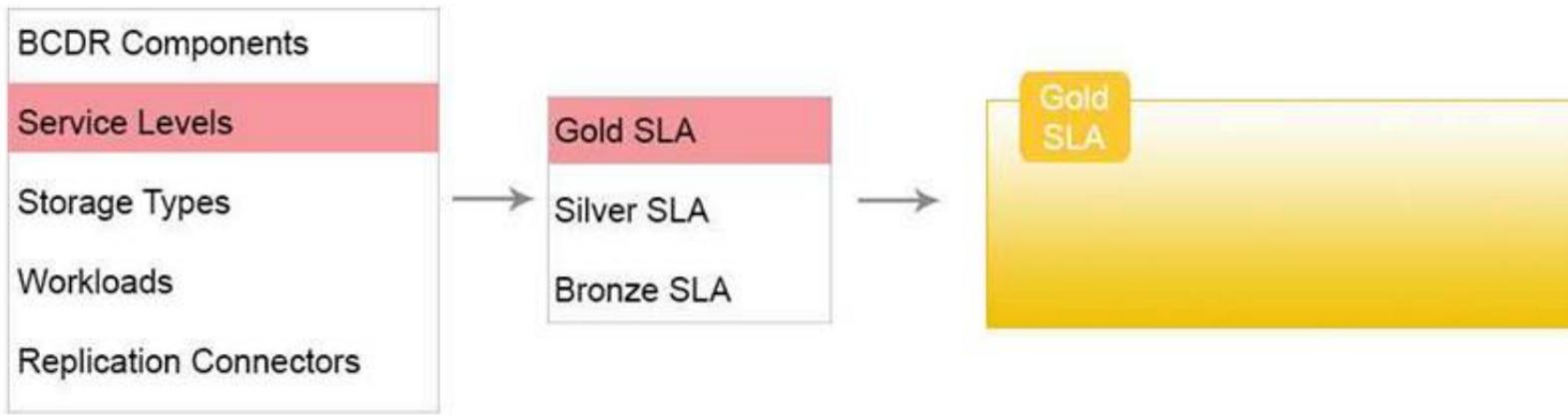


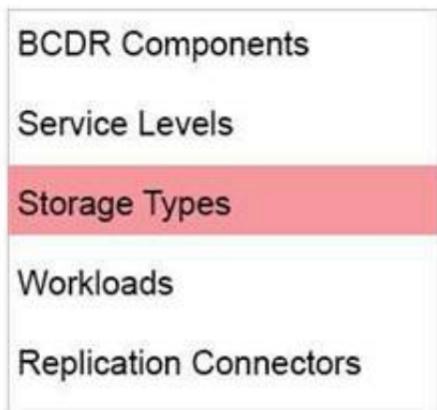


Answer:

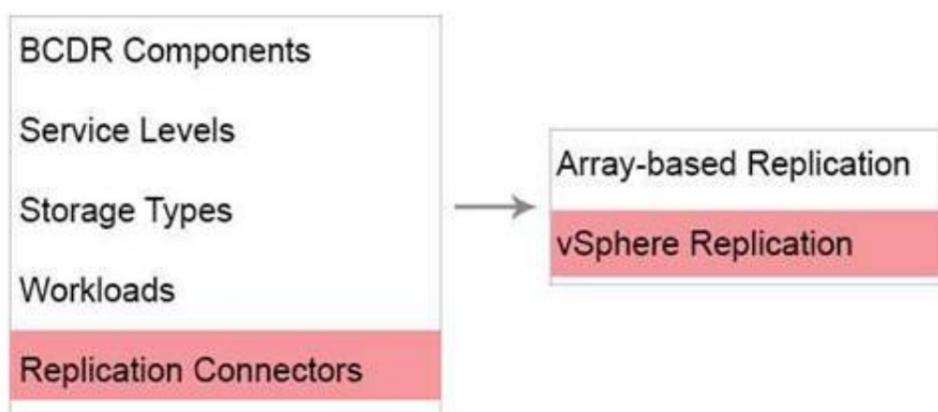
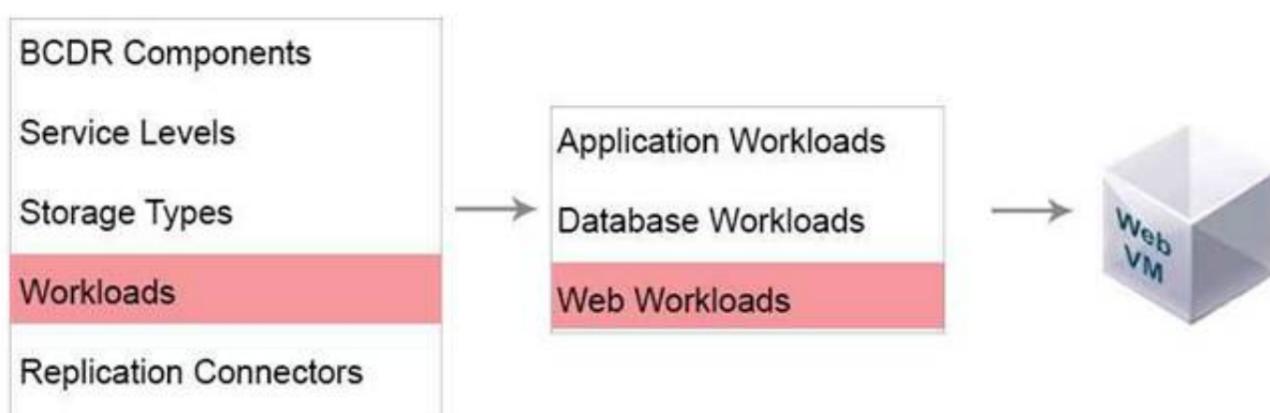
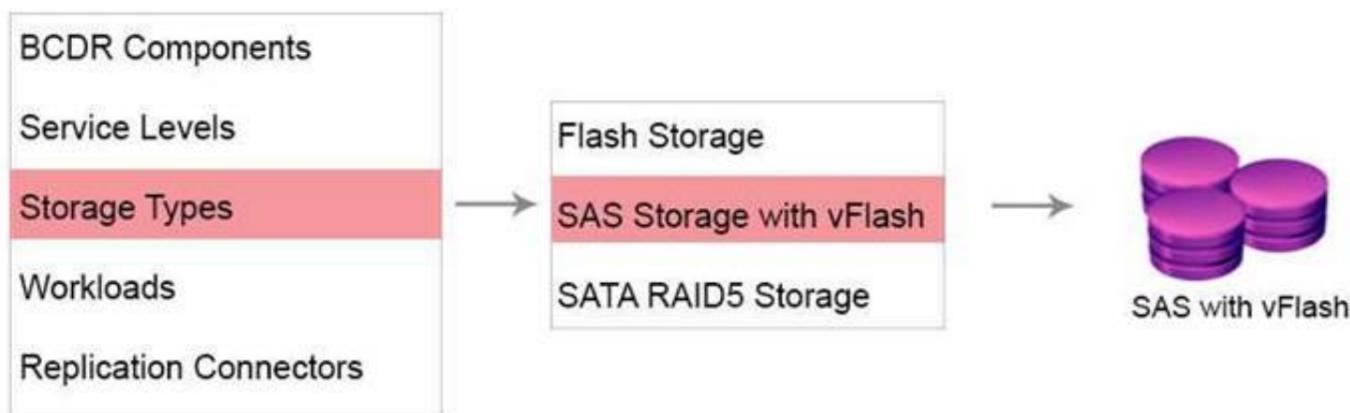
Explanation: Check below for answer solution Primary







Secondary



NEW QUESTION 160

Which two types of workloads are efficiently consolidated when virtualized? (Choose two.)

- A. Workloads that do NOT require user input and are constantly processing large amounts of batched data.
- B. Workloads that will consume all available assigned resources.
- C. Workloads that are NOT CPU bound; most of their time is spent waiting for external events such as user interaction.
- D. Workloads that do NOT require access to specific physical resources such as a hardware dongle or graphics card.

Answer: CD

NEW QUESTION 164

What topics need to be considered when creating a storage design?

- A. Application I/O requirements
- B. Growth rate
- C. Latency
- D. All of the above

Answer: D

NEW QUESTION 169

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