



VMware

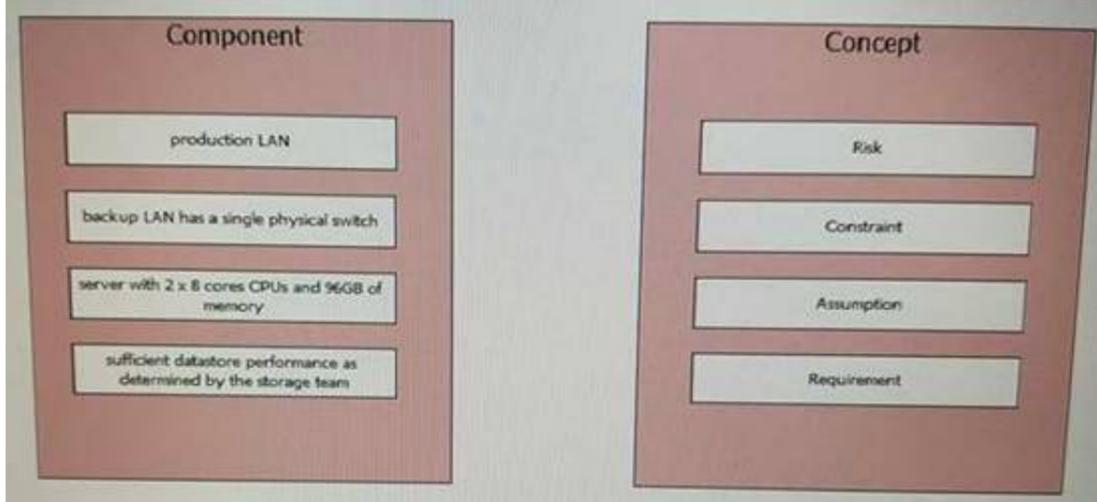
Exam Questions 3v0-624

VMware Certified Advanced Professional 6.5 - Data Center Virtualization Design Exam

NEW QUESTION 1

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.



- A. Mastered
- B. Not Mastered

Answer: A

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

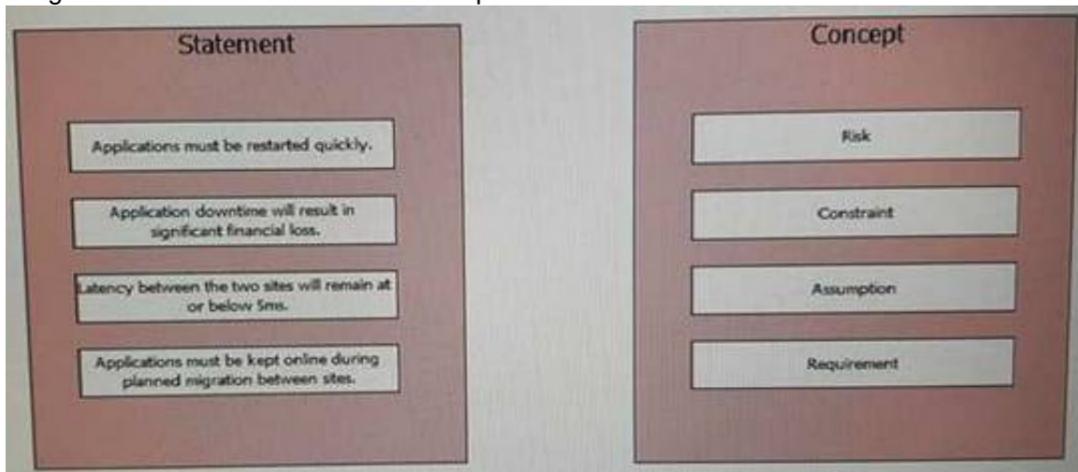
NEW QUESTION 2

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 3

A company has requested assistance with a new cross-site failover design to support business-critical applications.

- It has two sites when are very well-connected, and latency is less than 5ms round trip.
- The customer requires that its applications be restarted even in the event of a total site failure.
- The applications must be kept online even when migrated during maintenance.
- Storage arrays at either site support both synchronous and asynchronous replication. Which two options are accurate application requirements for this scenario? (Choose two.)

- A. The design must ensure continuous application uptime even during a total site failure.
- B. The design must prioritize application availability.
- C. The design must ensure application recoverability at the second site.
- D. The applications are latency-sensitive.

Answer: BC

NEW QUESTION 4

A company is consolidating its IT operations efforts by moving the Finance, IT, and QA departments towards a self-service environment, following SDDC best practices.

- All departments have different priorities and expectations for uptime of the required infrastructure and applications.
- Project stakeholders are still discussing final approvals for the budget with the CFO.
- To drive down the operating cost of the environment, only blade servers will implement this project.
- To ensure business continuity, a colocation provider was chosen to fail over virtual machines.
- The implementation of the project will follow a public reference architecture provided by VMware. What is the assumption in this scenario?

- A. The chosen architecture is sufficient.
- B. All departments demand different SLAs.
- C. Final budget approvals are being discussed.
- D. The environment will be shared by several departments.

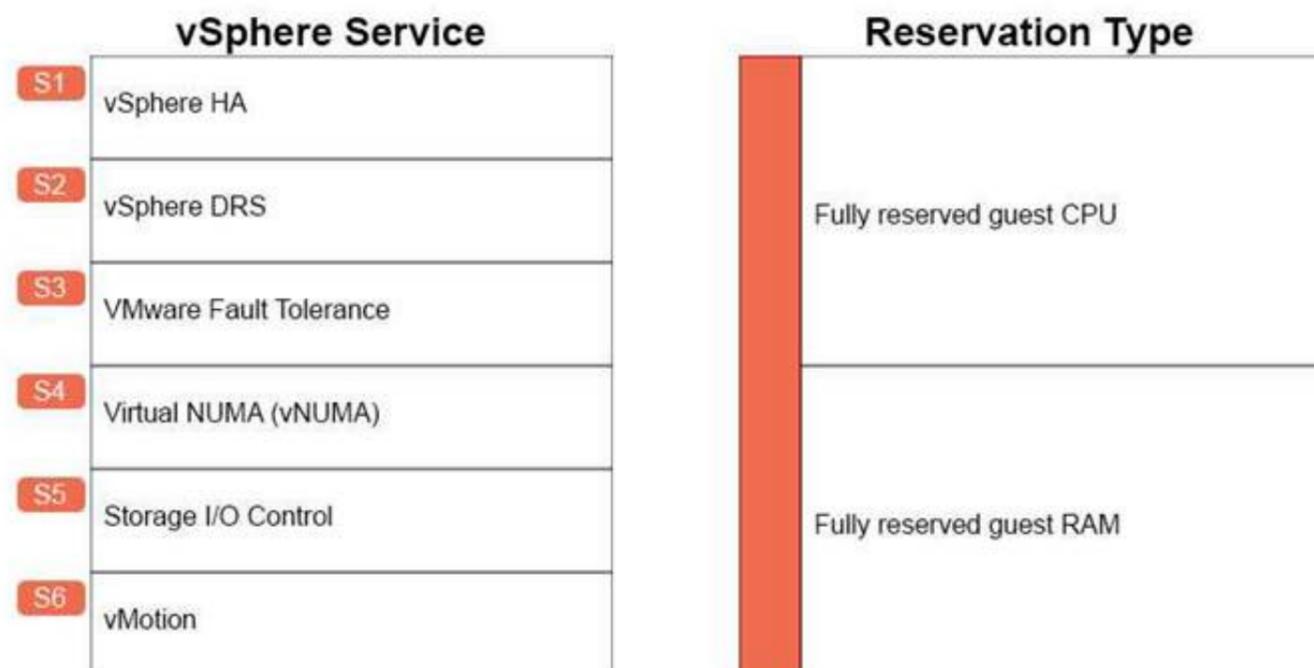
Answer: A

NEW QUESTION 5

You have been tasked with creating a vSphere 6.5 design for an organization. The organization has a mission critical application that must be able to obtain its required CPU and memory resources even if contention occurs. You must determine which vSphere service(s) will allow for resources to be reserved.

Associate the vSphere Service on the left with the corresponding Reservation Type on the right by dragging the red button (S1-S6) over the text of the Reservation Type.

NOTE: A vSphere Service may allow for more than one Reservation Type or none at all.



A. Mastered

B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 6

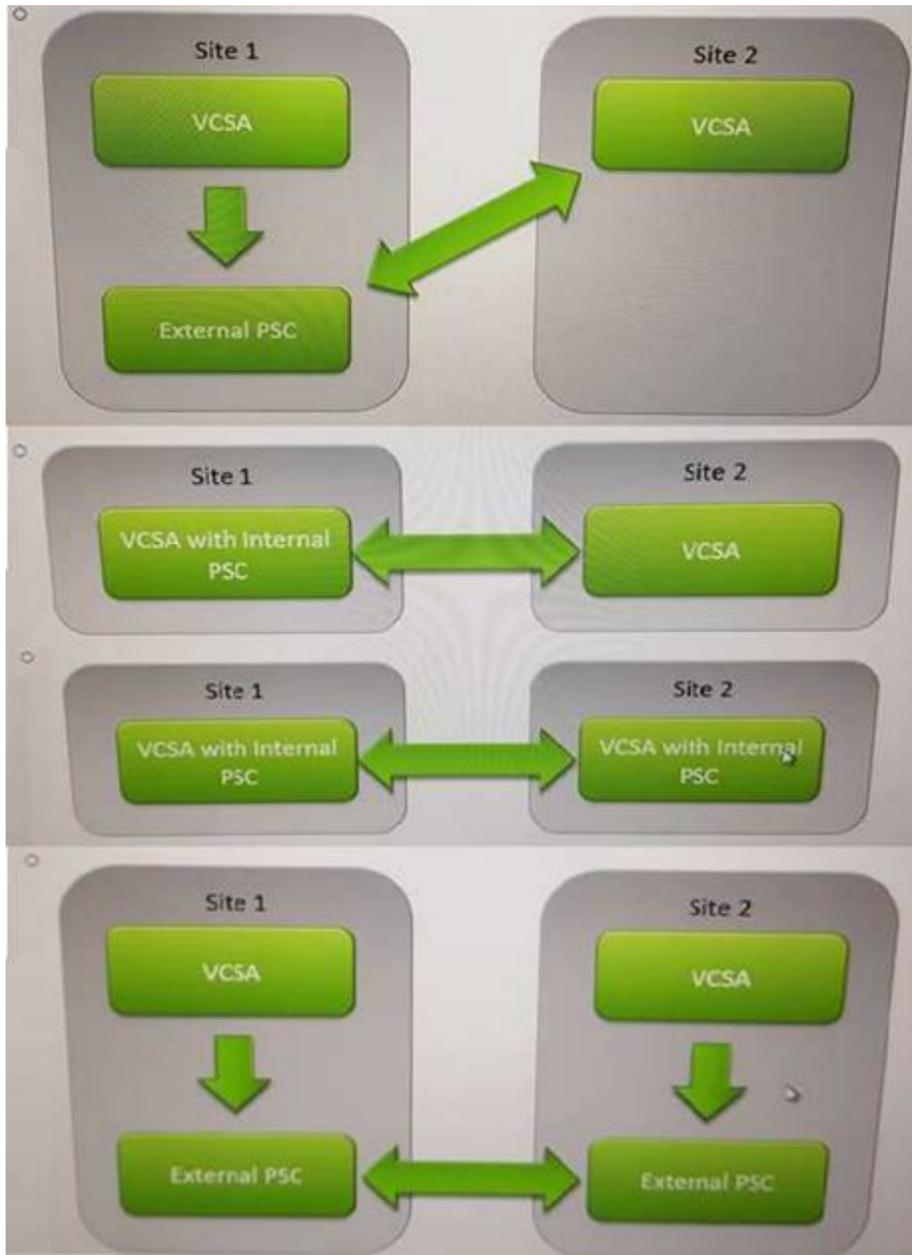
When implementing update policies for the vSphere environment, which would be the VMware-recommended way to update the vCenter Server Appliance (VCSA) when an underlying operating system (OS) patch is released?

- A. Introduce a policy that requires a system administrator to check if a new appliance update (which might include an OS update) is available from the downloads section of MyVMware portal, and follow the VCSA documentation to apply the update.
- B. Do nothing - the VCSA applies all OS updates automatically without any human interaction.
- C. Introduce a policy that requires a system administrator to go online and check with the OS vendor to see if a new version is available
- D. If it is, download it manually, log in to the VCSA with the root credentials, and proceed with the OS update.
- E. Configure VMware Update Manager to download the OS update and apply it on a scheduled basis.

Answer: A

NEW QUESTION 7

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-vmware-server-deployments/>

NEW QUESTION 8

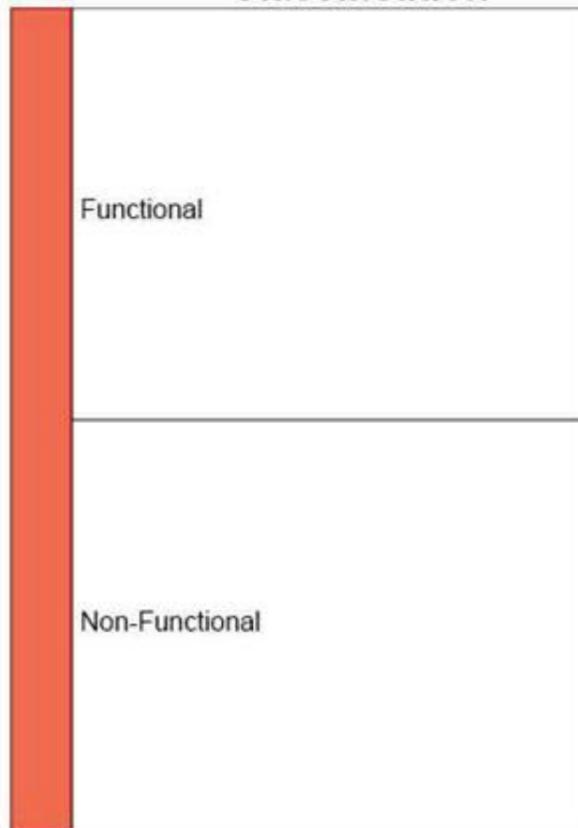
You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has provided information via requirements gathering. Evaluate each statement and determine if the requirement is functional or non-functional.

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

Requirements

R1	The design must provide sufficient capacity to current workloads with a 15% growth per year for three years.
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.

Classification



- A. Mastered
- B. Not Mastered

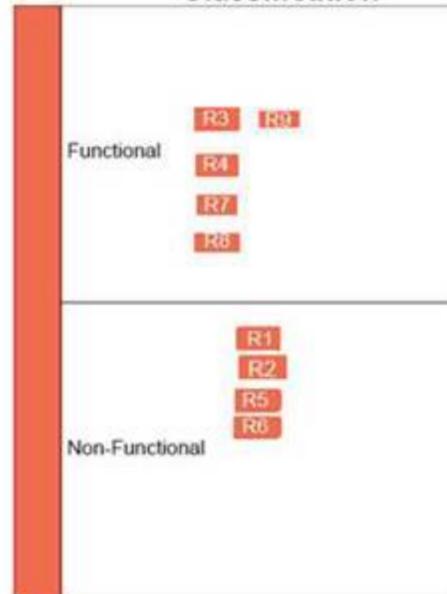
Answer: A

Explanation:

Requirements

R1	The design must provide sufficient capacity to current workloads with a 15% growth per year for three years.
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.
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R9	The design should use offsite storage of tape backups to maintain a remote copy to meet auditor requirements.

Classification



NEW QUESTION 9

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 10

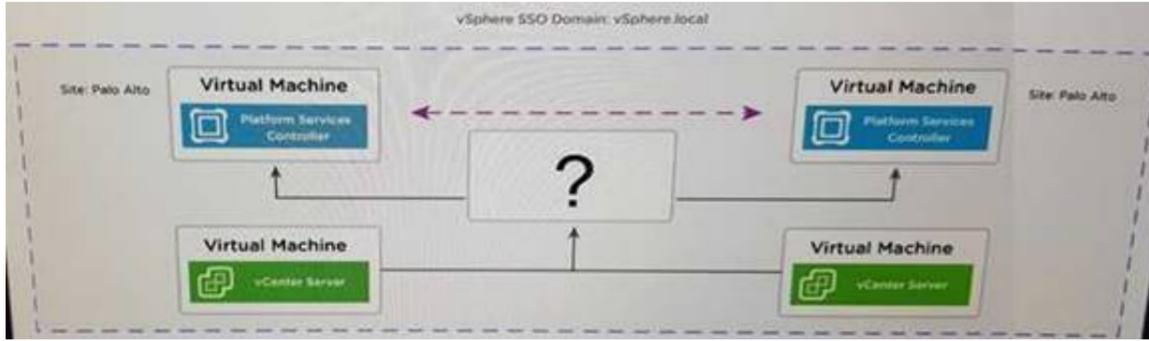
When considering server consolidation, plan on running vCPUs per core.

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

Answer: A

NEW QUESTION 10

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 11

A company has requested that a new vSphere 6.5 design be created.

- The existing environment consists of 32 vSphere 6.0 hosts attached to an iSCSI storage array.
- The storage arrays contain external customer financial and medical records used by the company's investment and medical services division.

The design must:

- protect the company's existing data center investment
- expand to a second data center site
- introduce process automation
- expand to and fail over to public cloud

Which two non-functional requirements are applicable for this design? (Choose two.)

- A. The product of the design must account for regulatory compliance.
- B. The automation solution must be compatible with the existing equipment.
- C. The product of the design must feature 3DES encryption at the virtual machine disk level.
- D. At least two 10Gbps interfaces must be dedicated to storage on each host.
- E. Every host in the design must have Lockdown Mode enabled for security.

Answer: CD

NEW QUESTION 14

A number of factors determine how many physical adapters are needed in a host design. Which of the following is not one of them?

- A. Virtual machine size
- B. Amount of bandwidth required
- C. Security requirements
- D. Hardware fault tolerance

Answer: A

NEW QUESTION 15

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.)

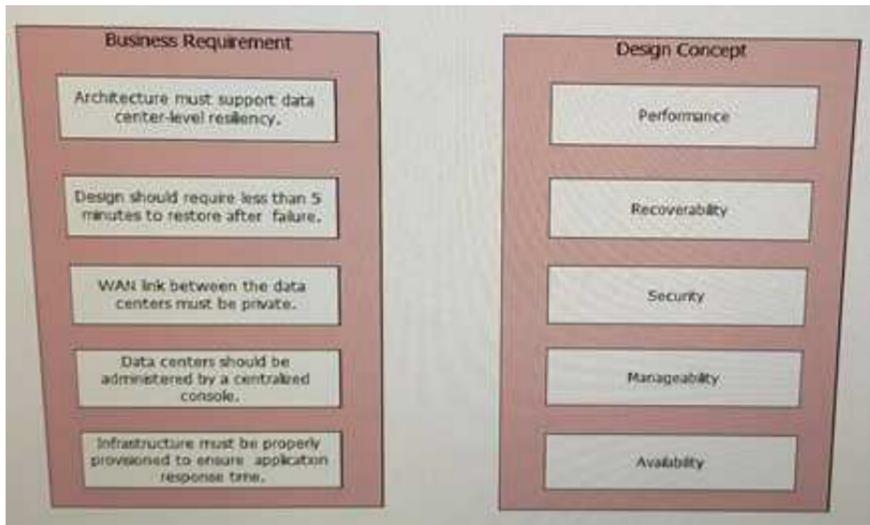
- A. powered-off Windows Server 2008 physical machine
- B. powered-on Windows Server 2000 Workstation virtual machine
- C. powered-off Windows Server 2008 Workstation virtual machine
- D. powered-on Windows Server 2008 physical machine

Answer: CD

NEW QUESTION 18

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.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

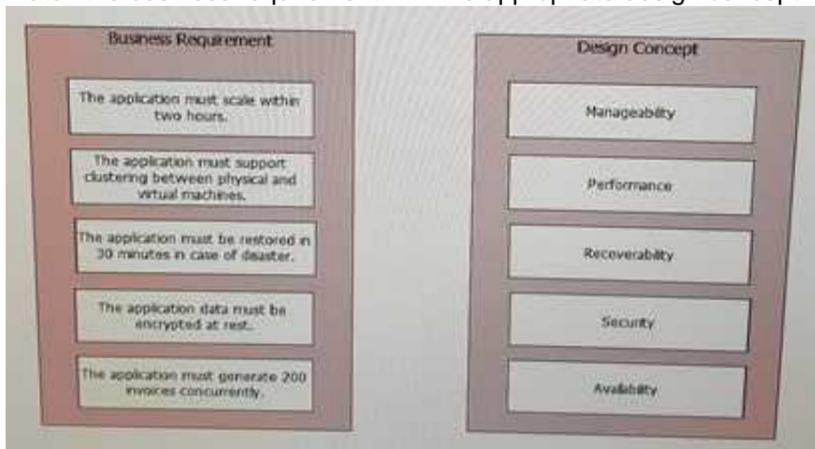
Performance --> Infrastructure must be properly provisioned...Recoverability --> Design should require less than 5' to restore...Security --> WAN links between..Manageability --> DCs should be administered by a centralized consoleAvailability --> Architecture must support DC level resiliency

NEW QUESTION 21

A leading steel manufacturer relies on SAP for purchase, sales, add invoice processing.

- It is planning to virtualize its servers to reduce CAPEX and OPEX.
- However, its CIO is concerned about the availability, performance, manageability, recoverability, and security for the SAP database and ERP instance.

Match the business requirement with the appropriate design concept.



- A. Mastered
- B. Not Mastered

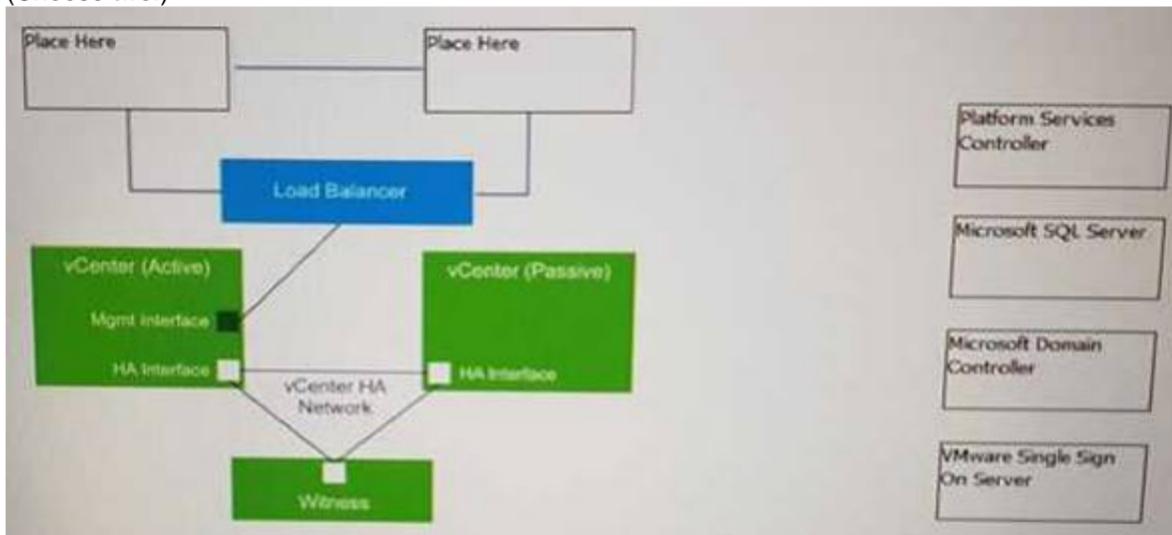
Answer: A

Explanation:

Manageability --> The App must support clustering...Performance --> The App must generate 200...Recoverability --> The App must be restored in 30...Security --> The App data must be encrypted...Availability --> The App must scale within 2h..

NEW QUESTION 26

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.)



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Platform services controller

NEW QUESTION 28

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Challenge		Technology	
C1	We can test often enough to determine if a solution is plausible.		vSphere HA C4
C2	Managing the recovery and relocation of our current servers is a manual process.		vSphere Fault Tolerance C3
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 C2
			VMware vSphere vMotion C4
			Distributed Resource Scheduler
			Virtual Machine Cloning C1
			vSphere Update Manager C4

NEW QUESTION 30

An organization is trying to determine whether it should use the Windows version of the vCenterServer or use the vCenter Server Appliance (VCSA). The organization will be using an externalOracle database, and it will manage about 30 ESXi hosts and about 200 virtual machines on 1 vCenter Server, but it would also like to see another group's vCenter Server from the samevSphere client window. Which type of vCenter Server should it use, and

why?

- A. The vCenter Server Appliance (VCSA) because it can be used with Oracle
- B. The VCSA because it can support 30 ESXi hosts
- C. The Windows version because it can support Oracle
- D. The Windows version because it can support Linked mode

Answer: A

NEW QUESTION 33

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:

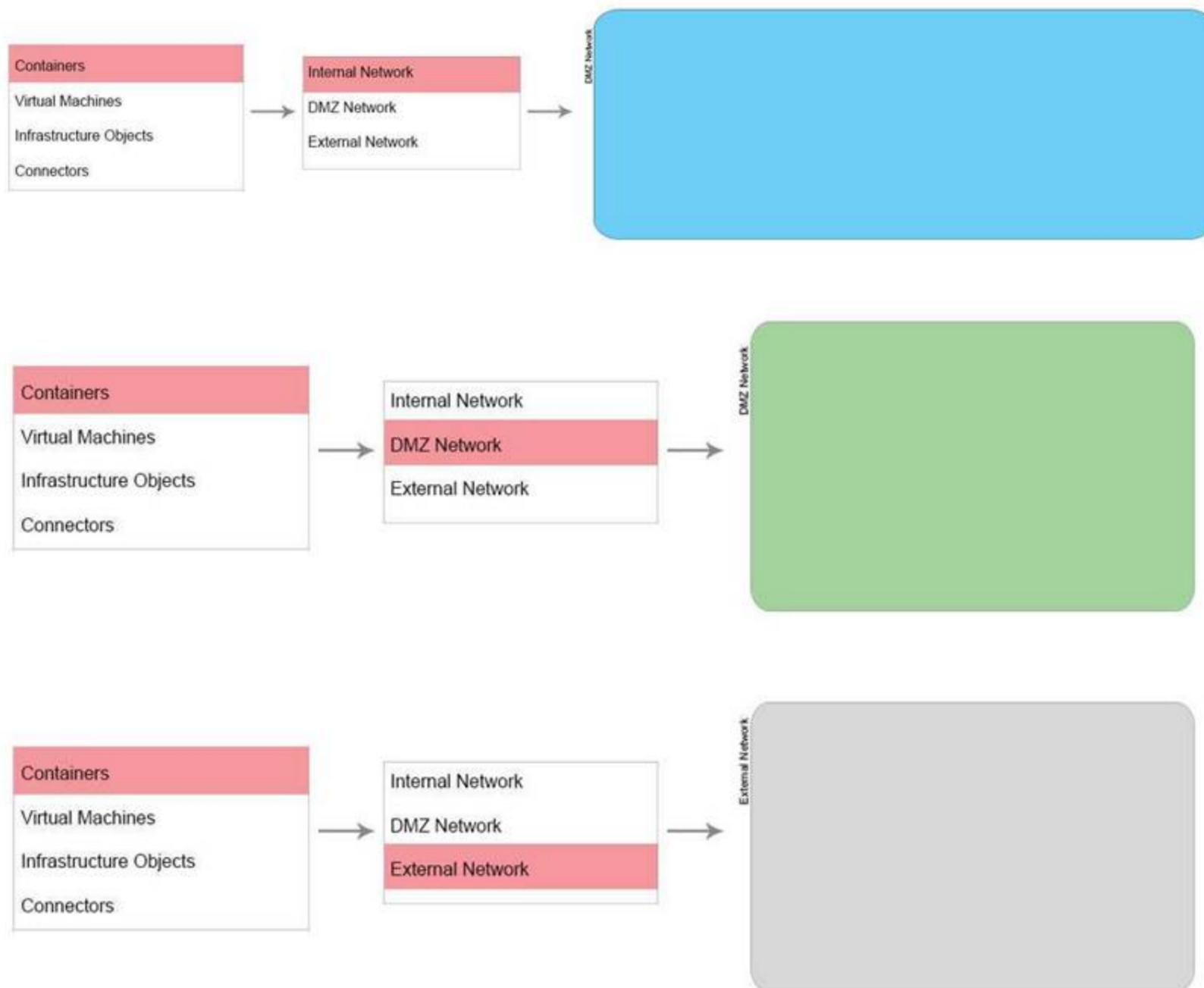
- E-mail database is replicated between two servers at a logical level, with no shared disk configurations.
- E-mail databases meet corporate criteria for LUN provisioning, and must reside directly on storage array.
- Operating system disks do not meet corporate requirements for LUN provisioning, and 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.

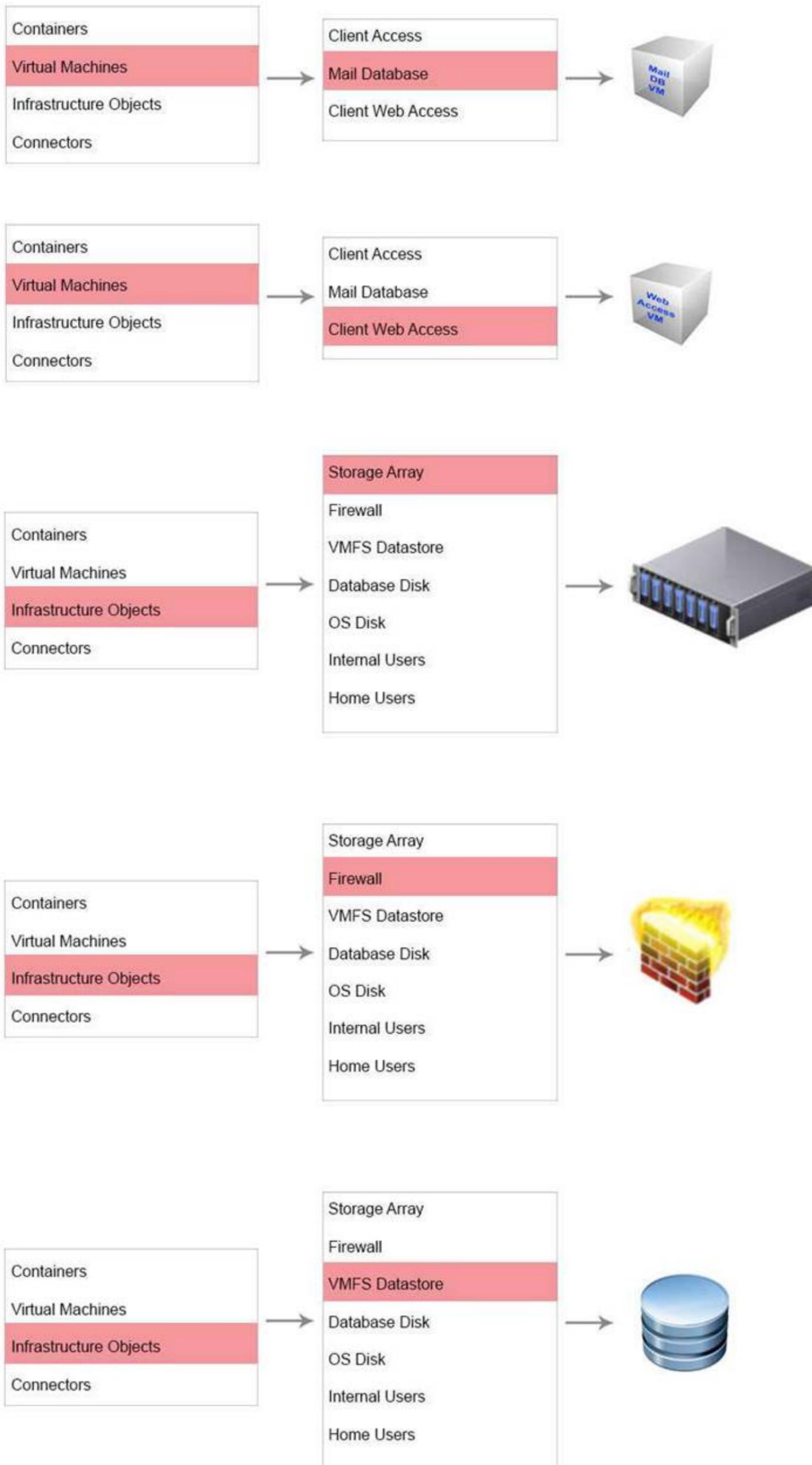
Design Requirements:

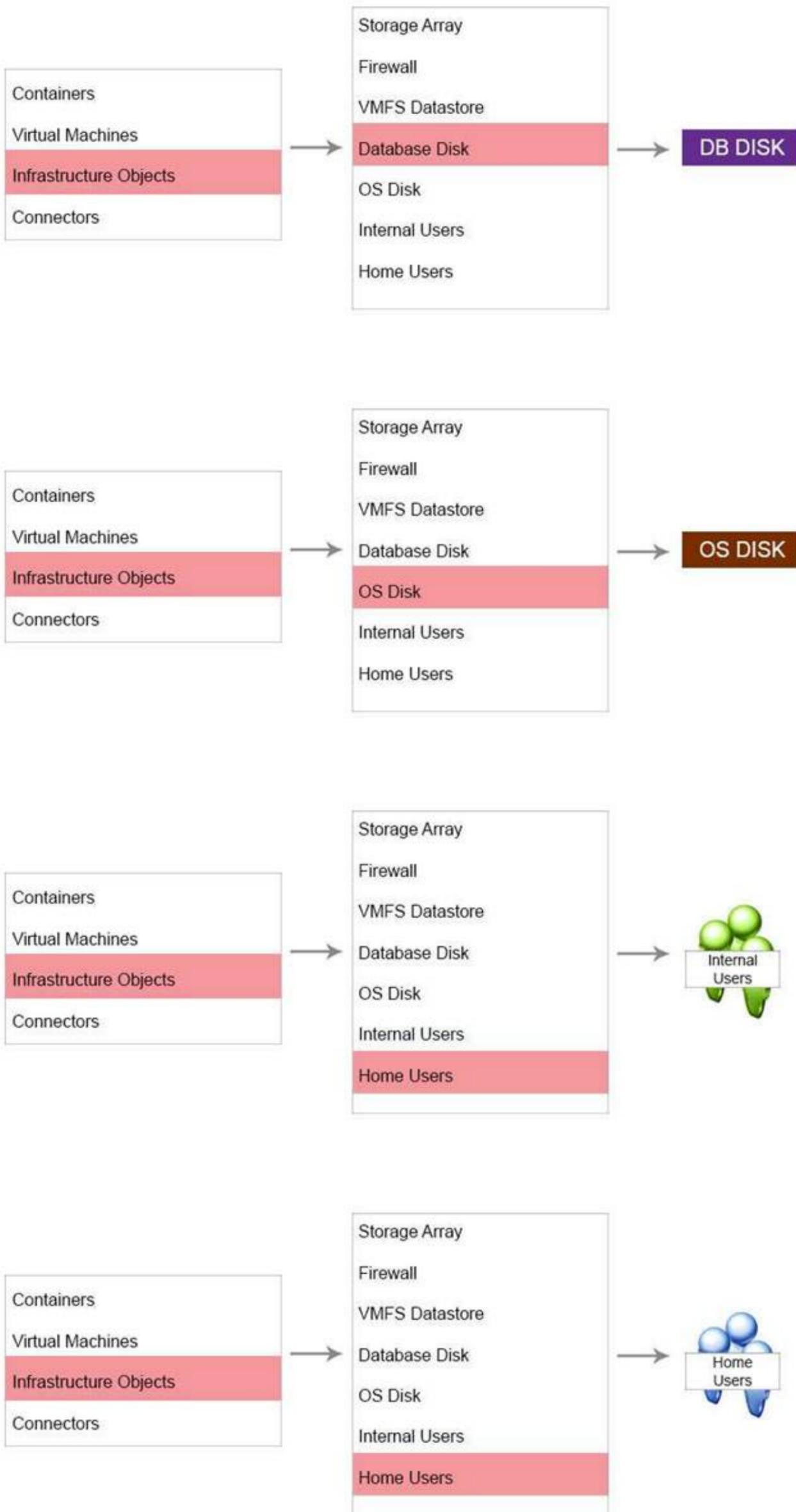
Create a solution that shows the service dependencies required for virtualizing the email application, including:

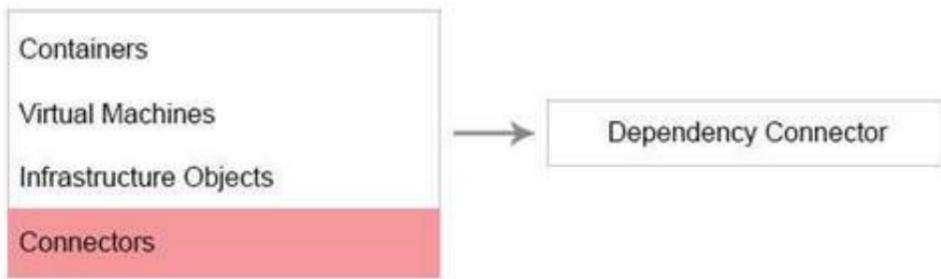
- All required storage for Mail DB VM(s) only
- All required network and security connection(s)
- All required virtual machine(s)
- All required user(s)

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).







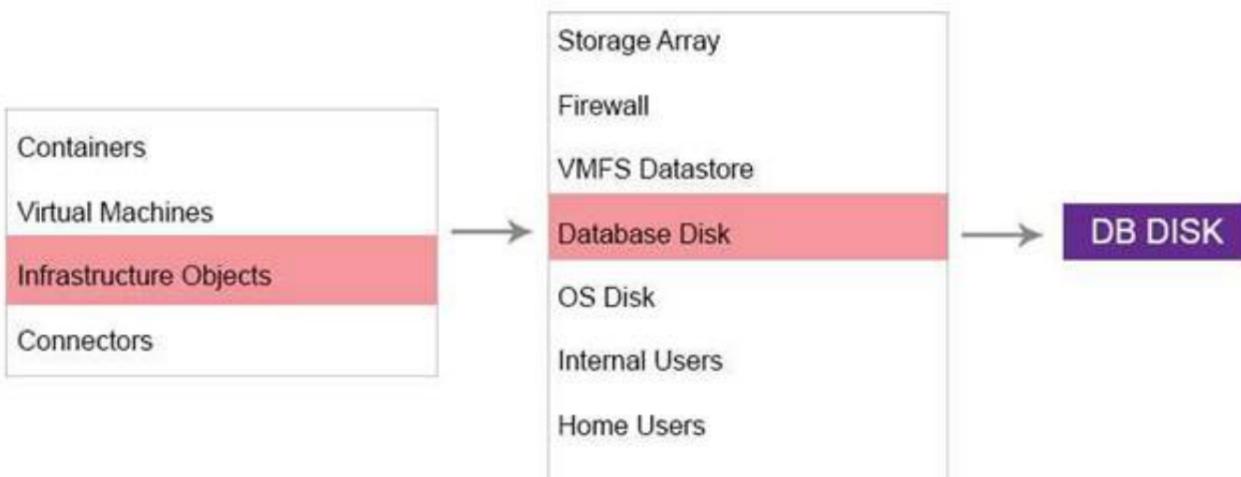
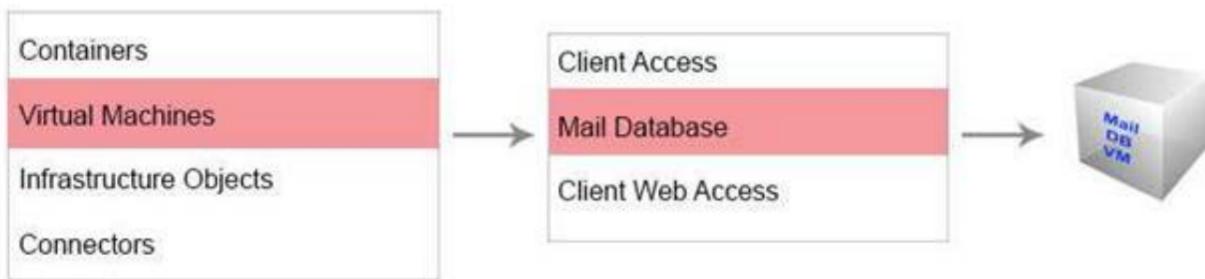
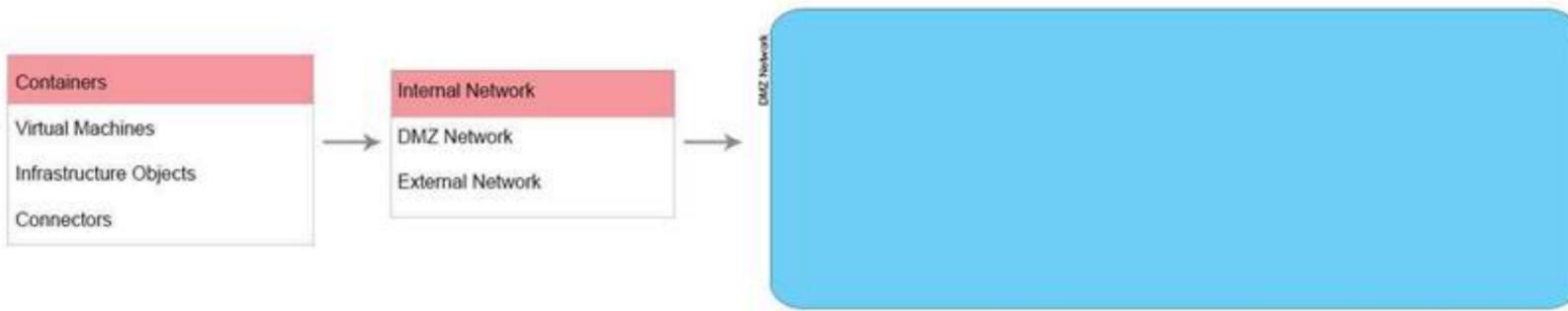


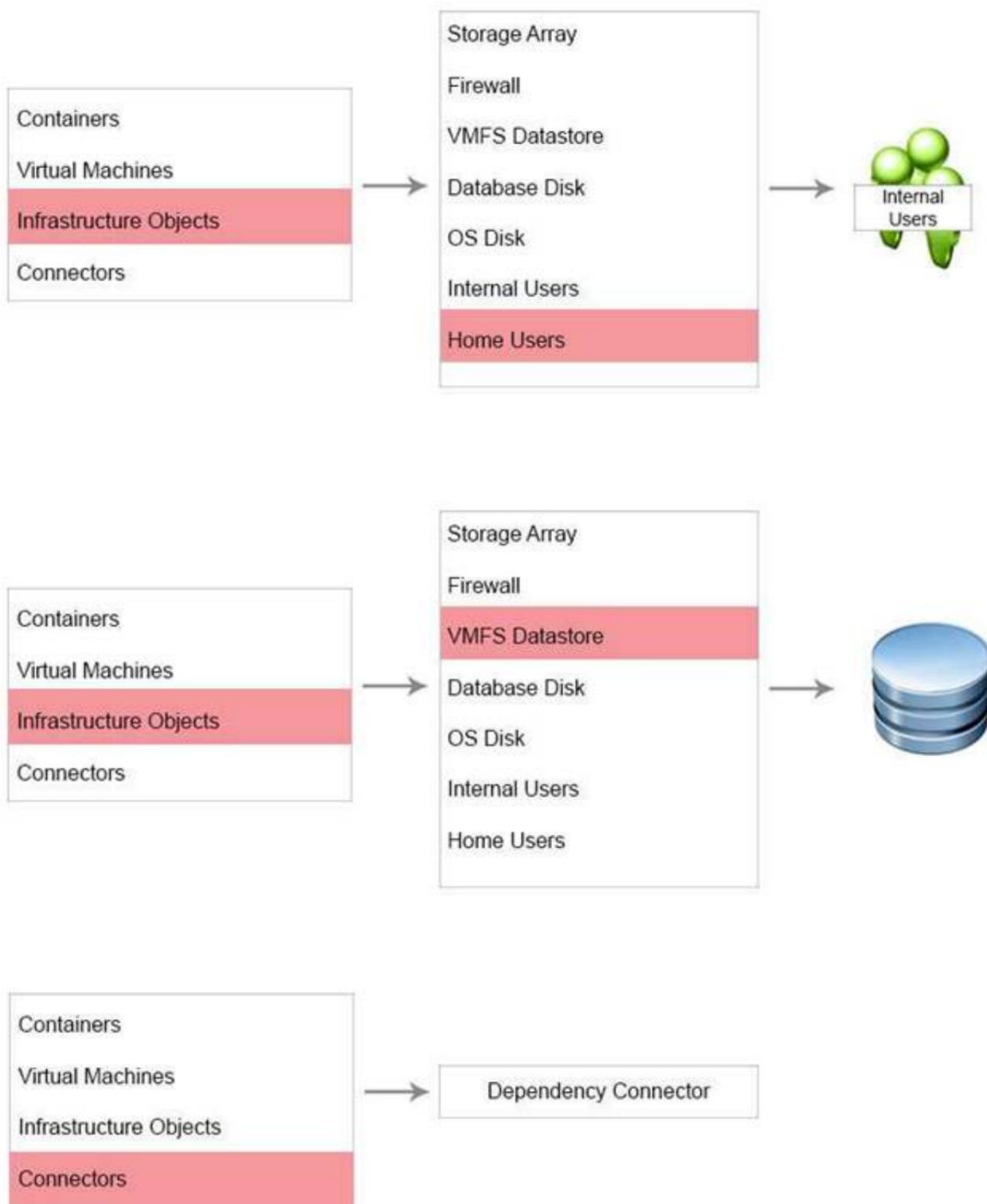
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Check below for answer solution





NEW QUESTION 34

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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	D2 D5 D8
Throughput	D2 D6 D7
Write Performance	D1 D3 D5
Cluster Size	D4

NEW QUESTION 38

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 41

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		
R3	The design must be vendor neutral		
R4	The design requires specific vendors and products	Logical	
R5	The design requires a change management system		
R6	The design requires a scale-out-architecture	Physical	
R7	The design requires specific CPU allocation settings		
R8	The design must use vCenter Chargeback manager 2.5.1		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 43

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:

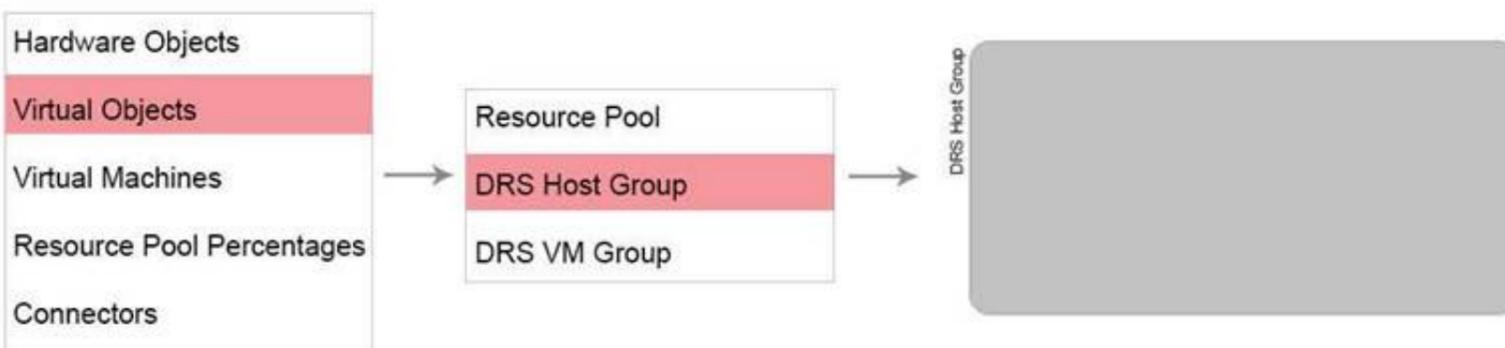
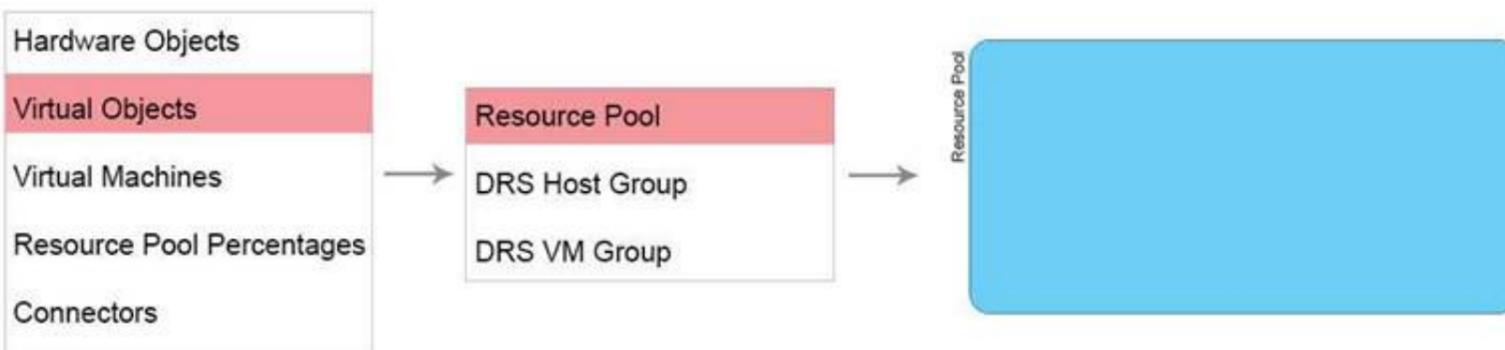
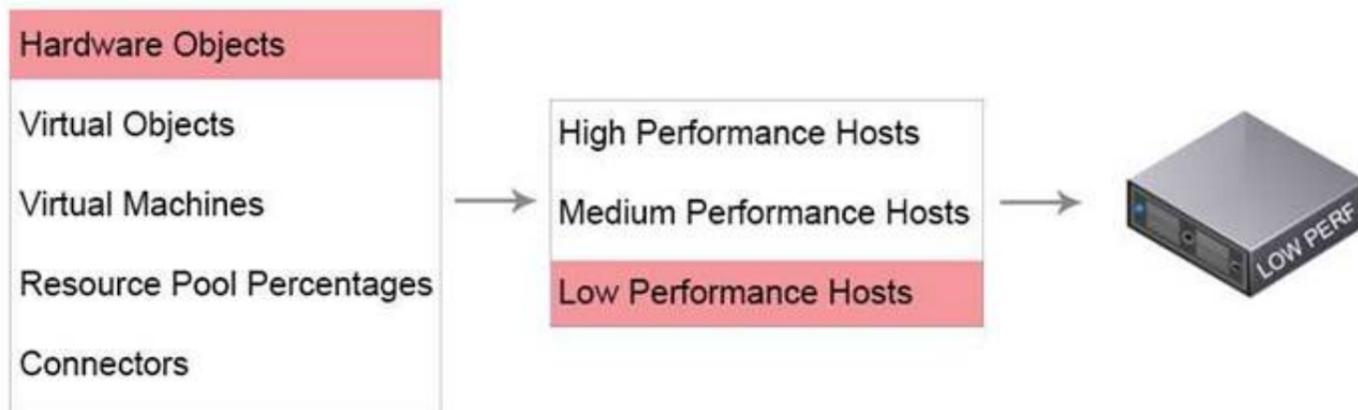
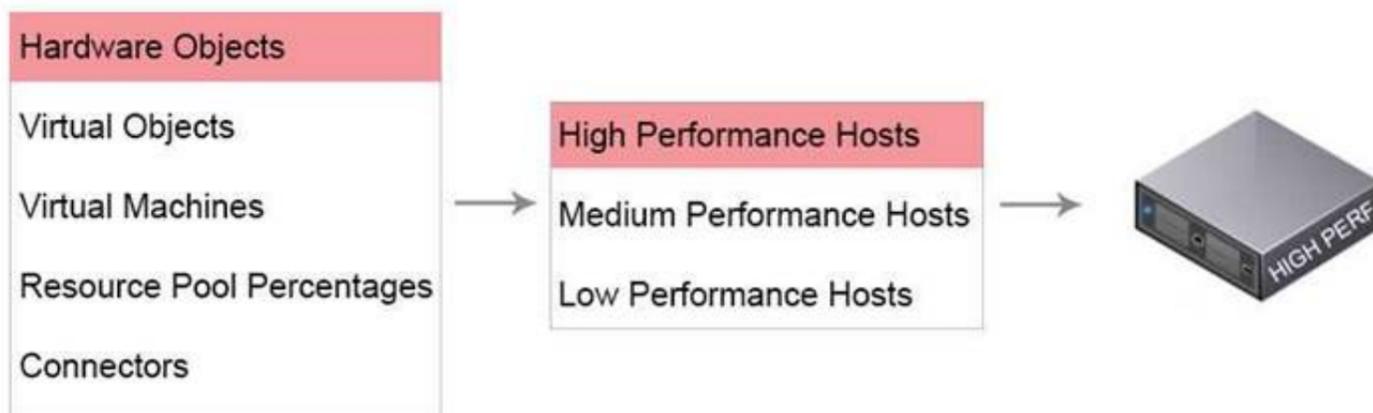
- Gold Tier virtual machines should run only on high performance servers, unless no high performance servers are available. They should also be allocated 75% of overall available resources regardless of placement.
- Silver Tier virtual machines should run only on medium performance servers, unless no 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.

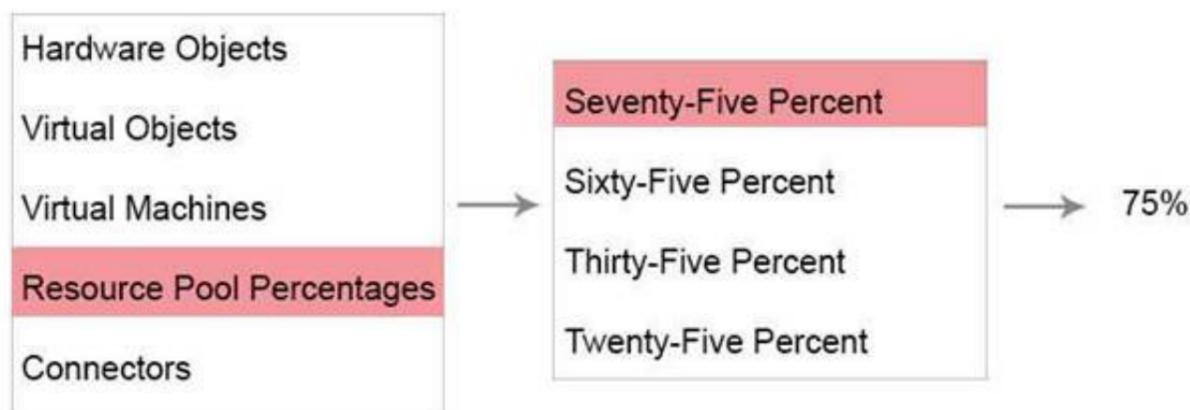
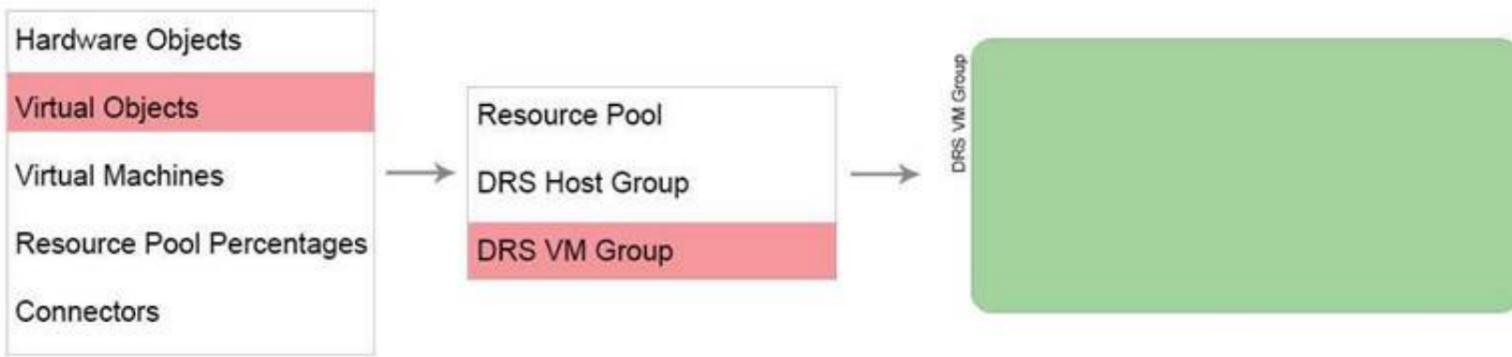
Design Requirements:

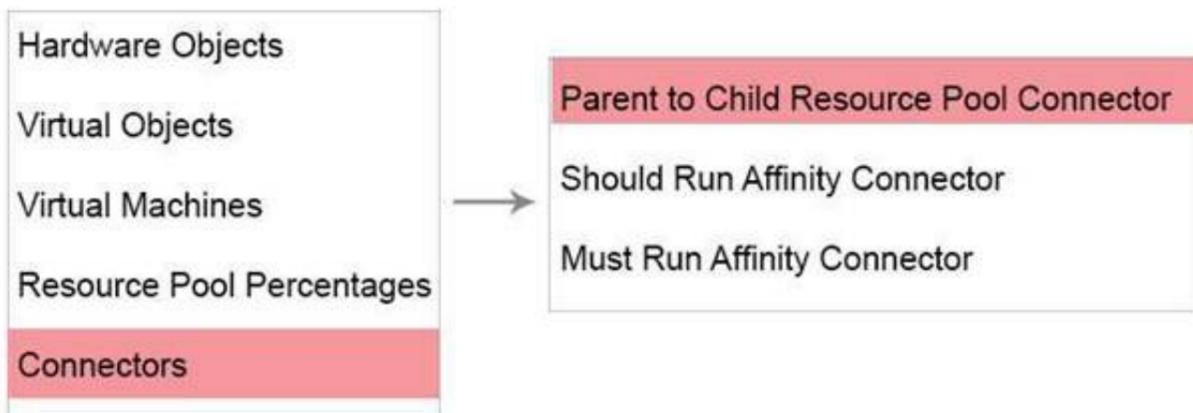
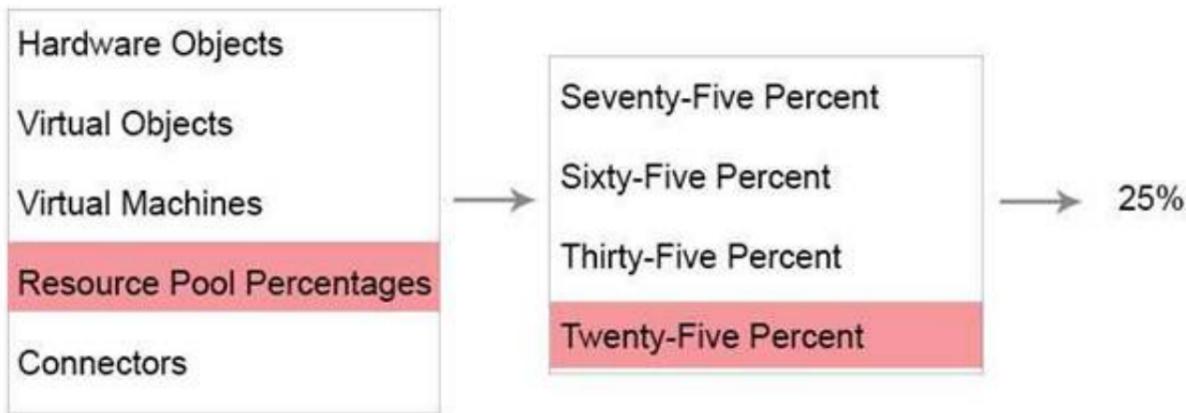
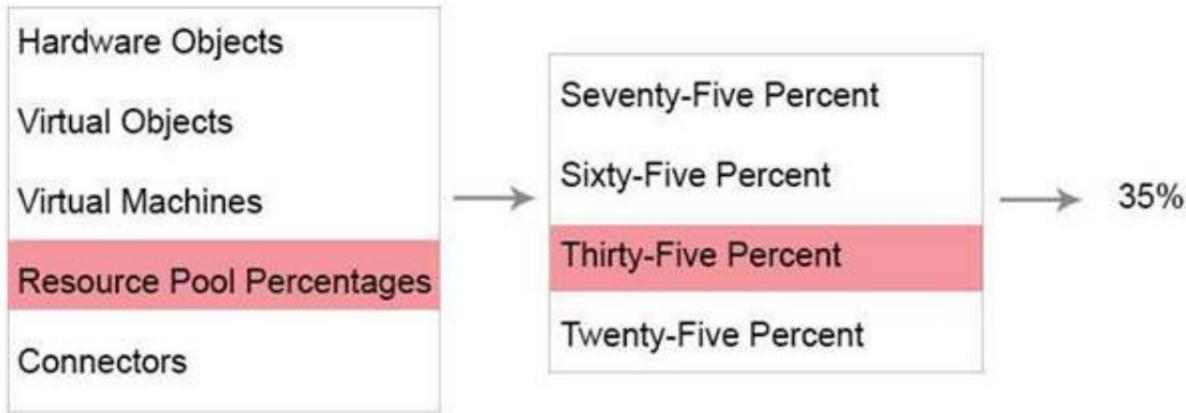
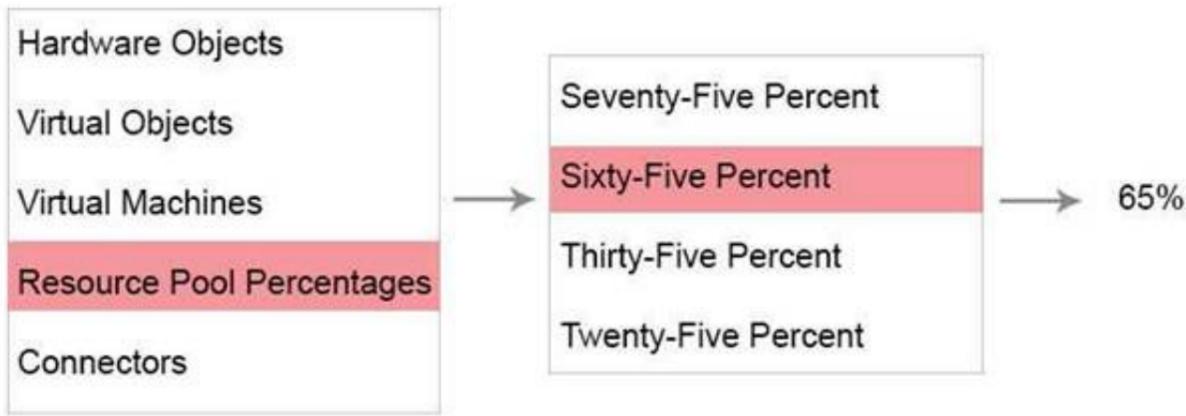
Create a logical design that shows resource allocation and cluster policies needed to meet the customer’s requirements. The design should include:

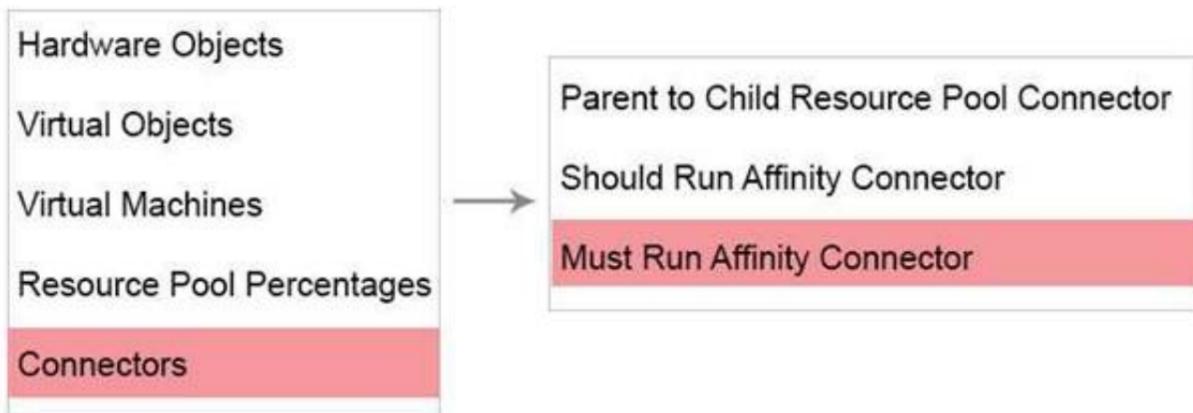
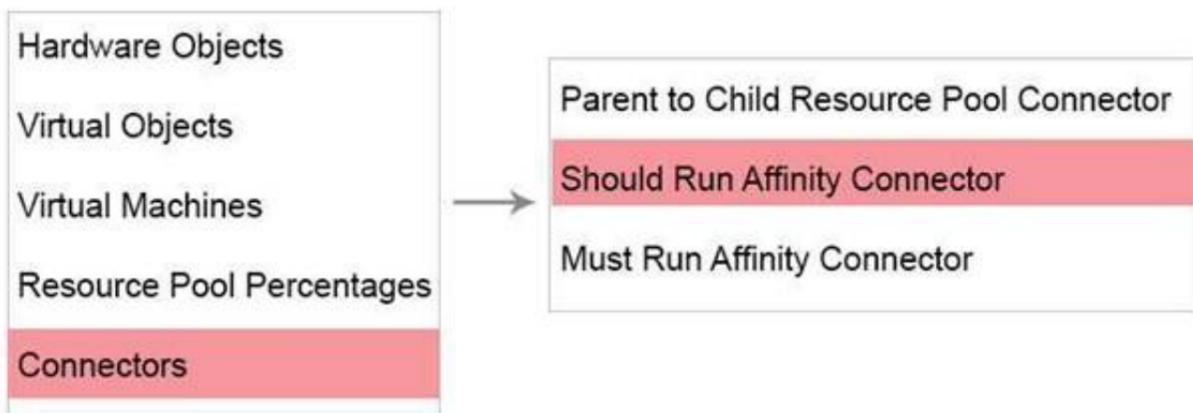
- All required server(s)
- All required resource(s)

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.







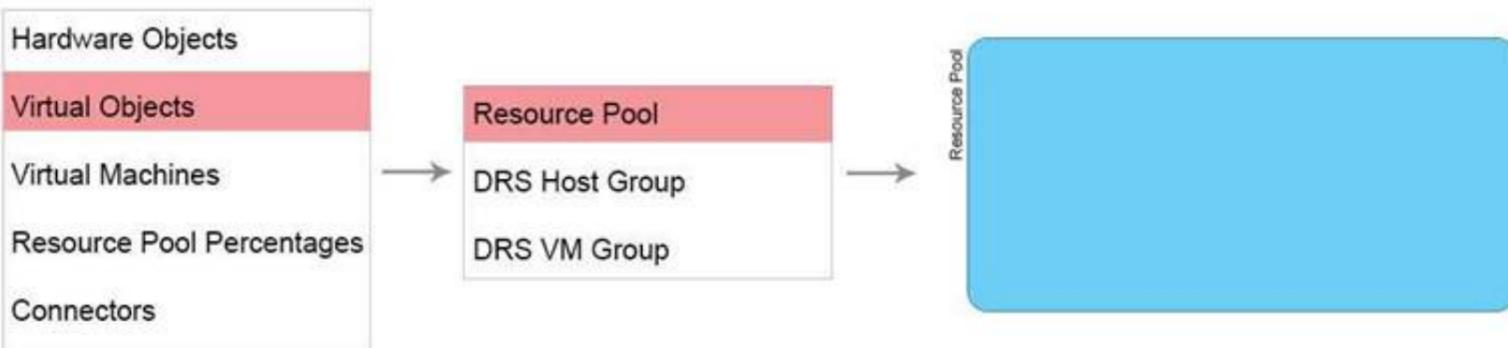


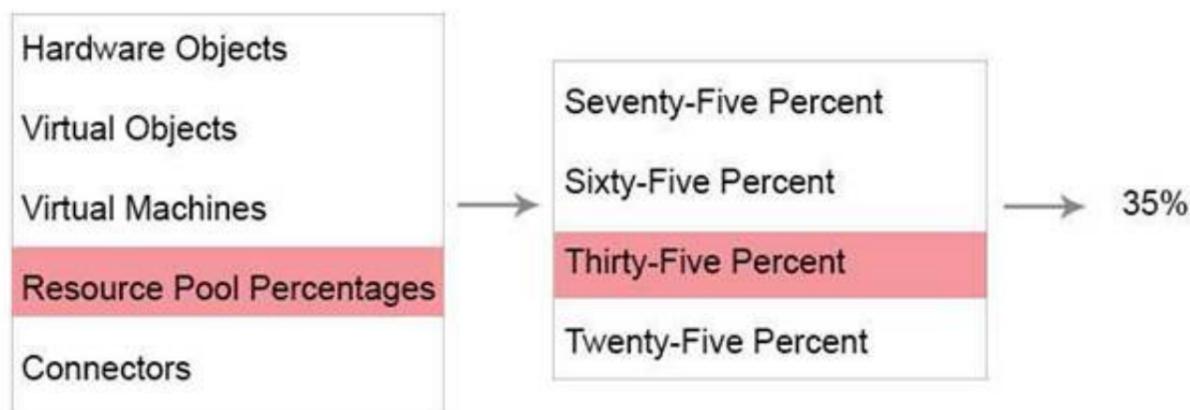
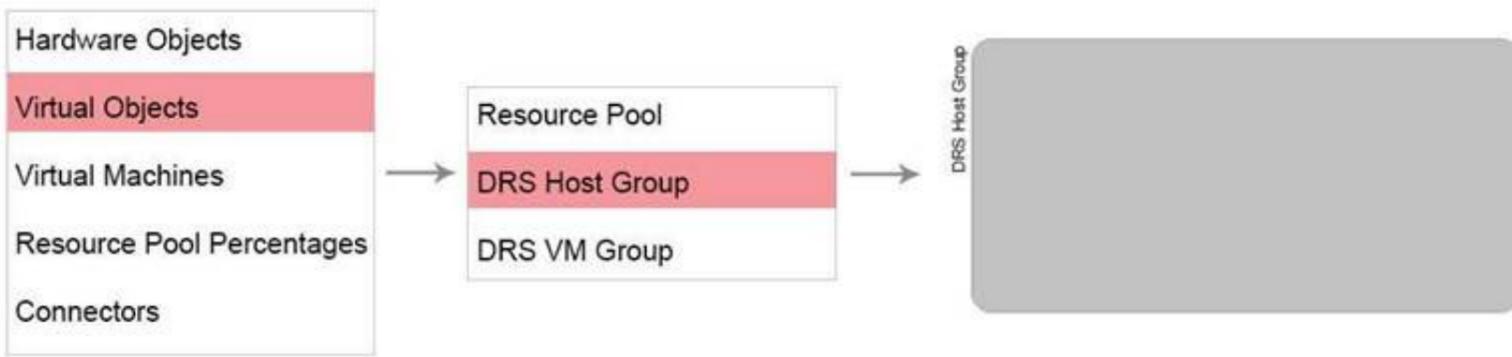
- A. Mastered
- B. Not Mastered

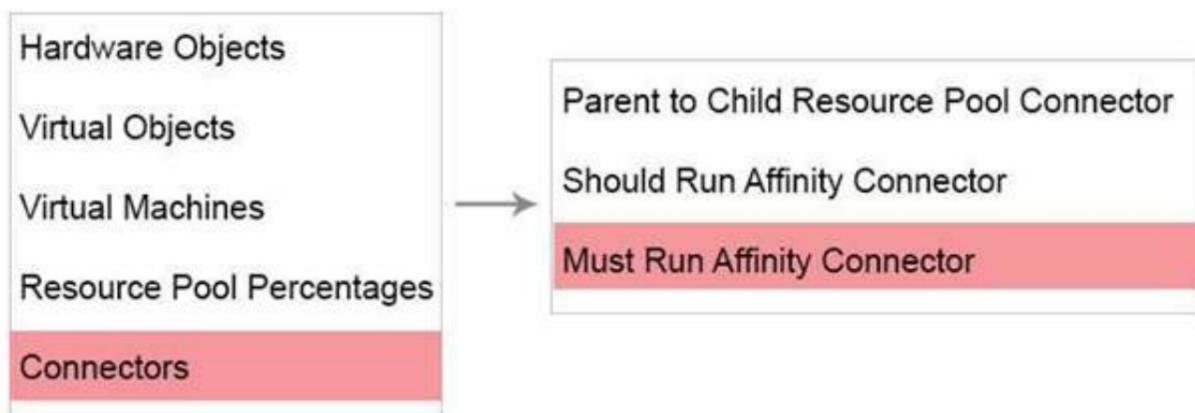
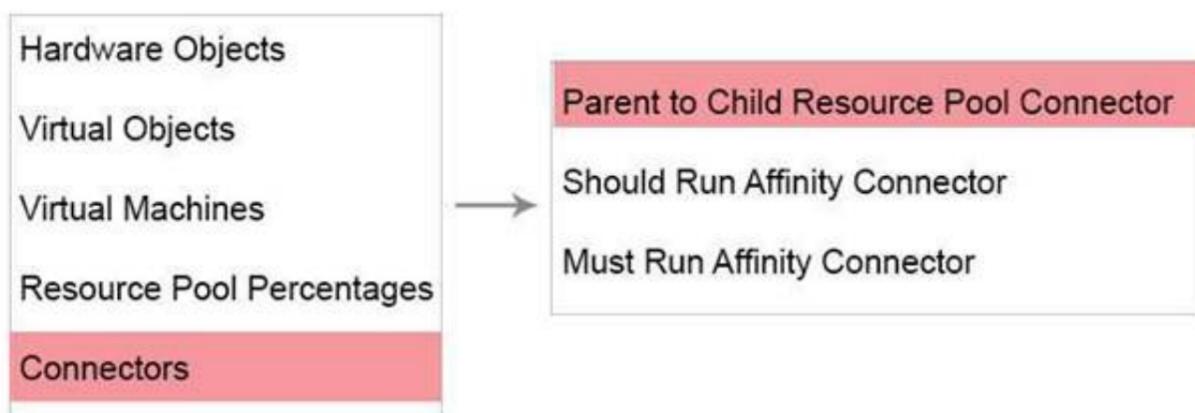
Answer: A

Explanation:

Check below for answer solution







NEW QUESTION 47

A validation plan is used to do which of the following? (Select all that apply.)

- A. Verify the design
- B. Verify that the system is functional
- C. Verify that the system meets requirements
- D. Meet current best practices

Answer: ABC

NEW QUESTION 51

A customer has these requirements for storage:

- Protocol used must have a file based access.
- Protocol used must have built in native multipathing.
- protocol used must support authentication.

To meet these requirements, which protocol should be used for storage?

- A. NFS v3
- B. NFS v4.1
- C. FCoE
- D. iSCSI

Answer: B

NEW QUESTION 52

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 53

The ability to live-migrate all virtual machines between two clusters is a requirement in the customer's design. Which two clusters and EVC configurations will accomplish this? (Choose two)

- A. Cluster 1 • ESXi 6.0 • Intel Skylake CPUs • EVC Enabled: AMD Opteron™ "Steamroller" Generation Cluster 2 • ESXi 6.5 • AMD Steamroller CPUs • EVC Enabled: AMD Opteron™ "Steamroller" Generation

- B. Cluster 1• ESXi 5.6• Intel® Broadwell CPUs• EVC Disabled Cluster 2• ESXi 6.5• Intel® Broadwell CPUs• EVC Disabled
- C. Cluster 1• ESXi 5.5• AMD Piledriver CPUs• EVC Enabled: AMD Opteron™ "Piledriver" Generation Cluster 2• ESXi 6.5• AMD Steamroller CPUs• EVC Enabled: AMD Opteron™ "Piledriver" Generation
- D. Cluster 1• ESXi 6.5• Intel Broadwell CPUs• EVC Enabled: Intel® "Broadwell" Generation Cluster 2• ESXi 6.5• Intel Sandy Bridge CPUs• EVC Enabled: Intel® "Sandy Bridge" Generation

Answer: BC

NEW QUESTION 57

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

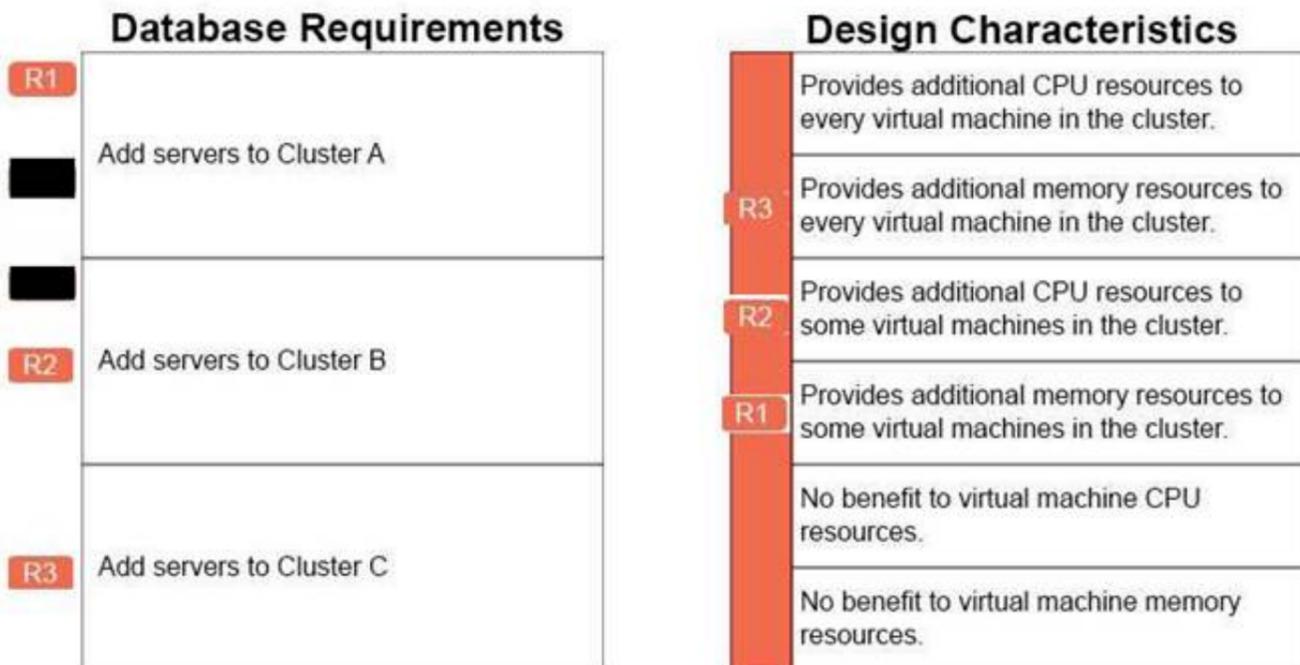
Match the Action on the left by dragging the red buttons (A1-A3) over the text of the corresponding Effect. NOTE: Actions taken might have more than one Effect on the cluster design.

Database Requirements	Design Characteristics
<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="background-color: #f00; color: white; padding: 2px 5px; margin-right: 5px;">R1</div> <div style="border: 1px solid black; flex-grow: 1; padding: 5px;">Add servers to Cluster A</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="background-color: #f00; color: white; padding: 2px 5px; margin-right: 5px;">R2</div> <div style="border: 1px solid black; flex-grow: 1; padding: 5px;">Add servers to Cluster B</div> </div> <div style="display: flex; align-items: center;"> <div style="background-color: #f00; color: white; padding: 2px 5px; margin-right: 5px;">R3</div> <div style="border: 1px solid black; flex-grow: 1; padding: 5px;">Add servers to Cluster C</div> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Provides additional CPU resources to every virtual machine in the cluster.</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Provides additional memory resources to every virtual machine in the cluster.</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Provides additional CPU resources to some virtual machines in the cluster.</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Provides additional memory resources to some virtual machines in the cluster.</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">No benefit to virtual machine CPU resources.</div> <div style="border: 1px solid black; padding: 5px;">No benefit to virtual machine memory resources.</div>

- A. Mastered
- B. Not Mastered

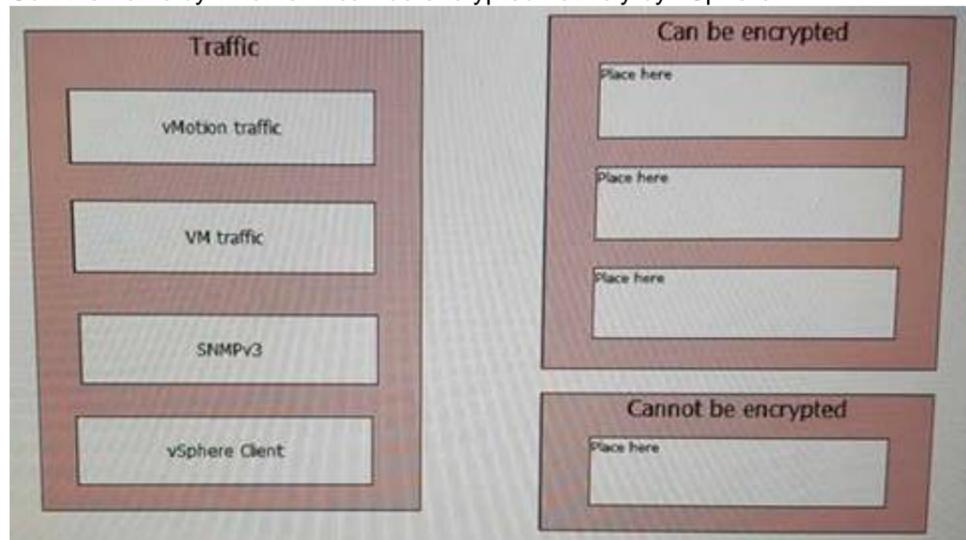
Answer: A

Explanation:



NEW QUESTION 62

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

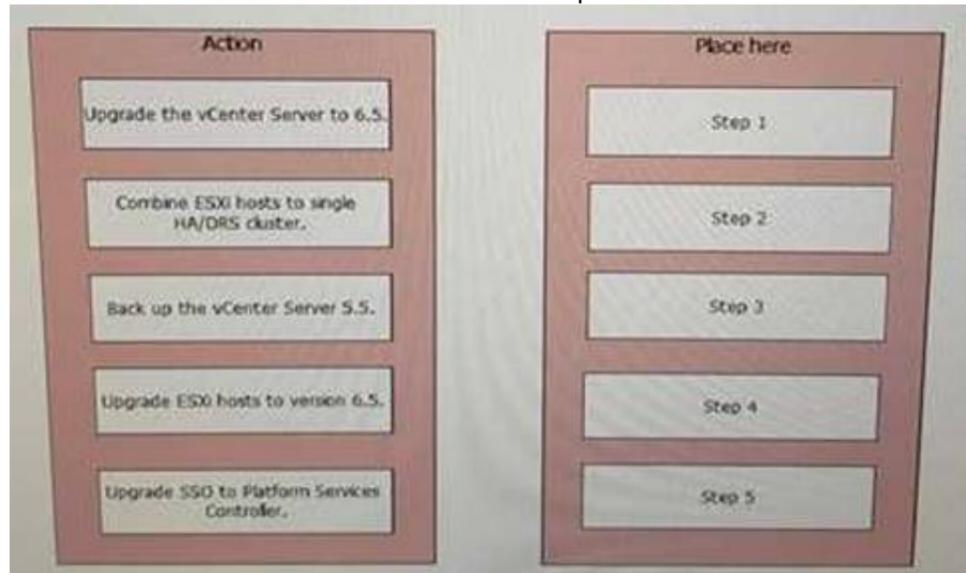
vmotion--> it is supported snmpv3 --> Natively supports message integrity, auth and encryption vSphere client --> Using IPsec for IPv6

NEW QUESTION 65

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.



- A. Mastered
- B. Not Mastered

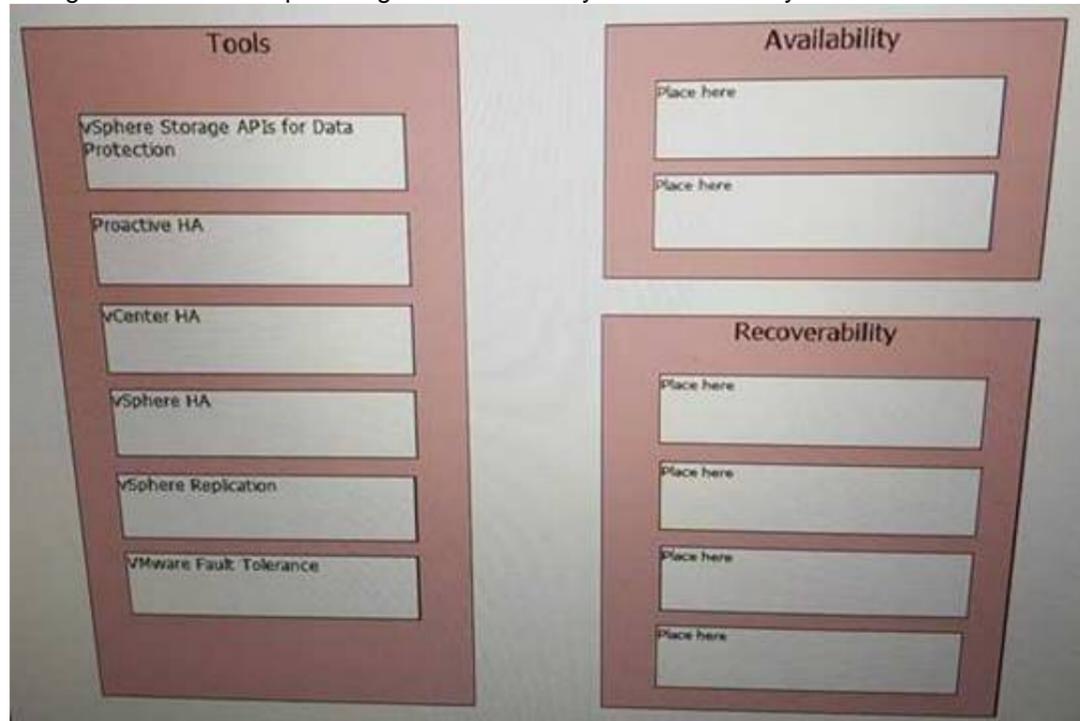
Answer: A

Explanation:

1 - Backup vCenter 5.52- Upgrade the SSO to PSC3-Upgrade vCenter to 6.54- Upgrade ESXi hosts to version 6.55- Combine ESXi hosts to single...

NEW QUESTION 67

Categorize the tools as providing either Availability or Recoverability.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Availability FTH Recoverability Proactive HA vCenter HA vSphere Replication VADP

NEW QUESTION 69

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 73

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.

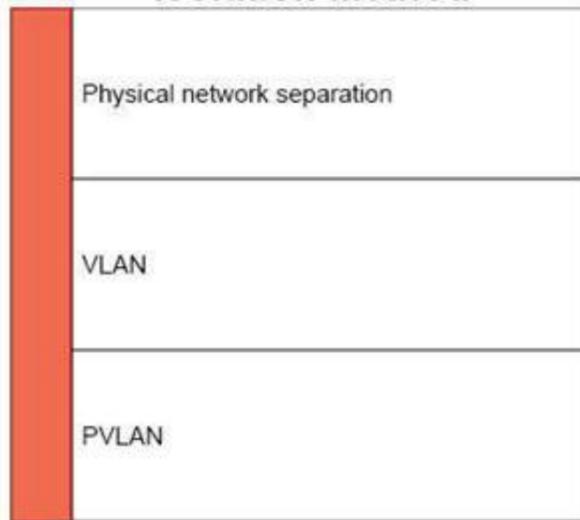
Match each Design Requirement on the left by dragging the red Requirement buttons (R1-R5) over the text of the appropriate Isolation Method.

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



- A. Mastered
- B. Not Mastered

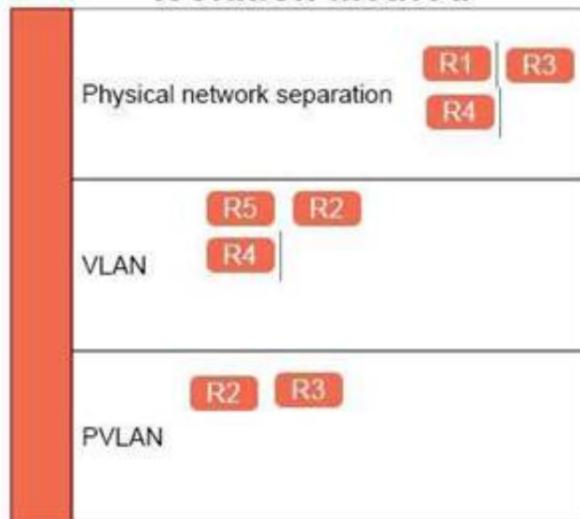
Answer: A

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 75

Customer Requirements:

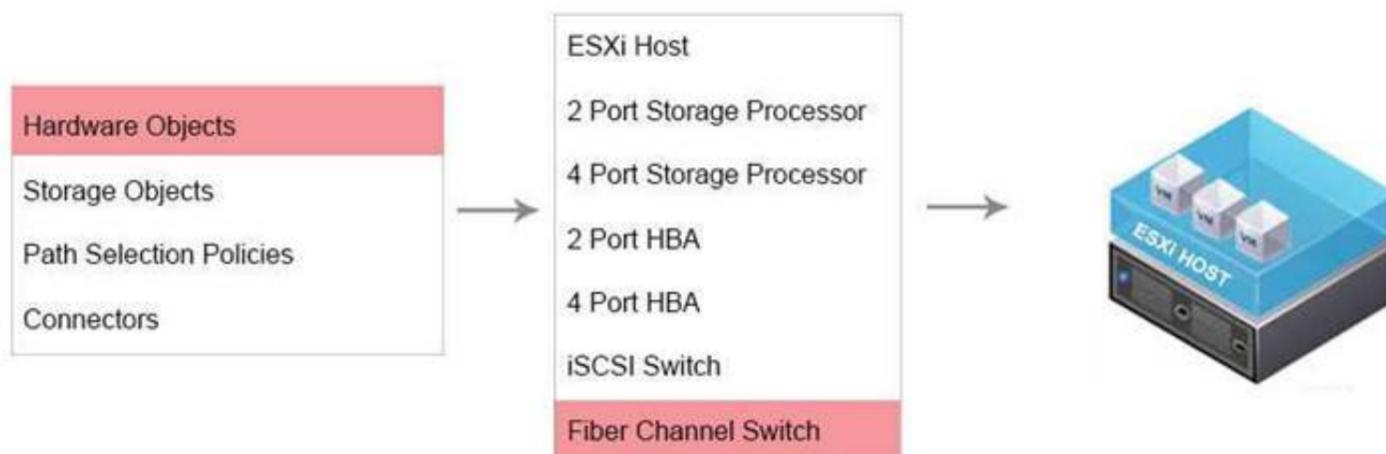
You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has produced two 24 port FC switches, and Asymmetrical Active/Active storage array (2 storage Processors with 4 ports each) and 22 ESXi Hosts with 2 dual port HBAs in each. Due to budgetary constraints,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

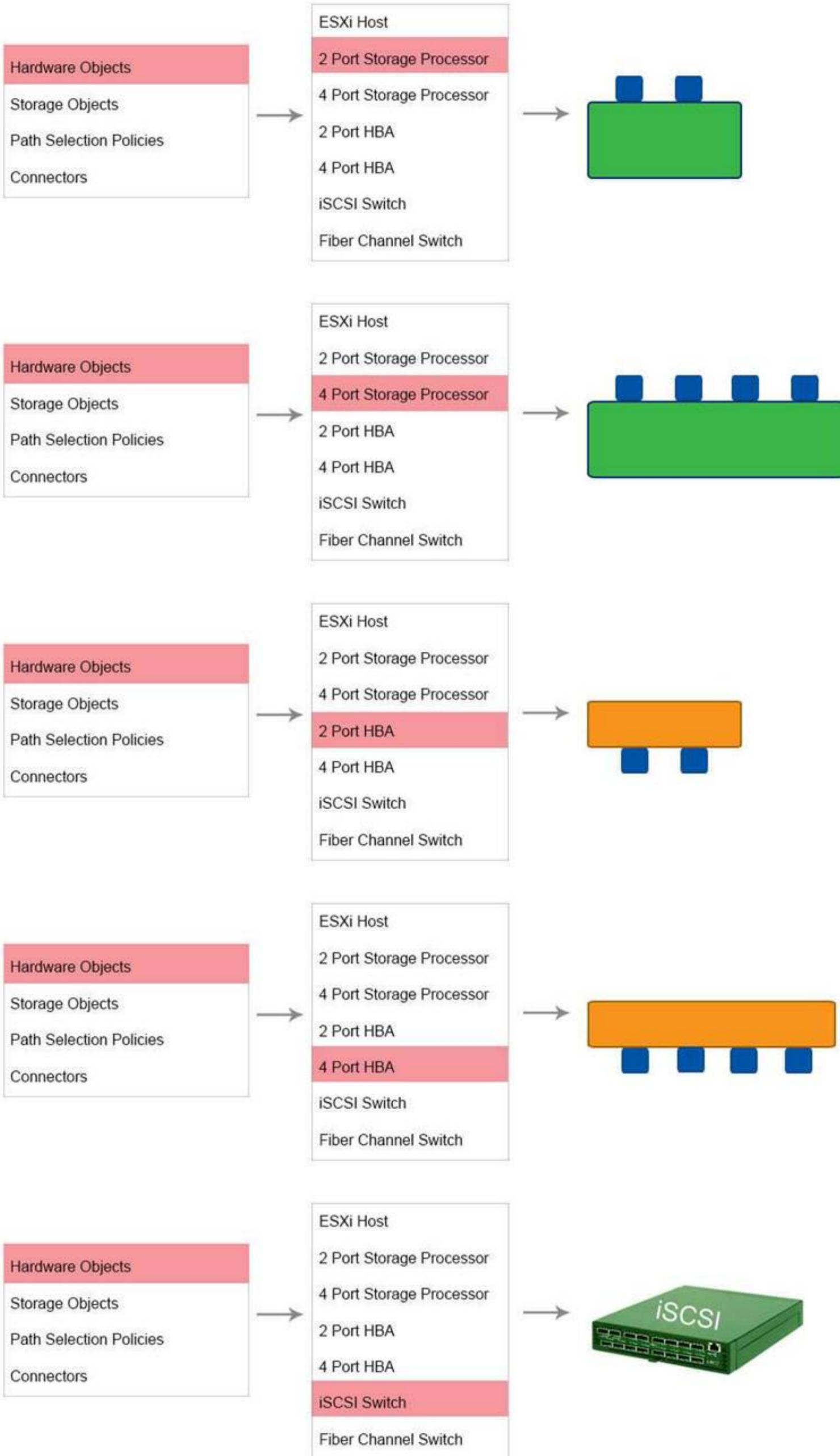
- The existing Fibre Channel (FC) Asymmetrical Active/Active Array and FC switches must be used.
- No single point of failure to any datastore.
- Configuration must provide failover and load balancing.
- The customer requires a solution that will accommodate virtual machines with three different I/O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

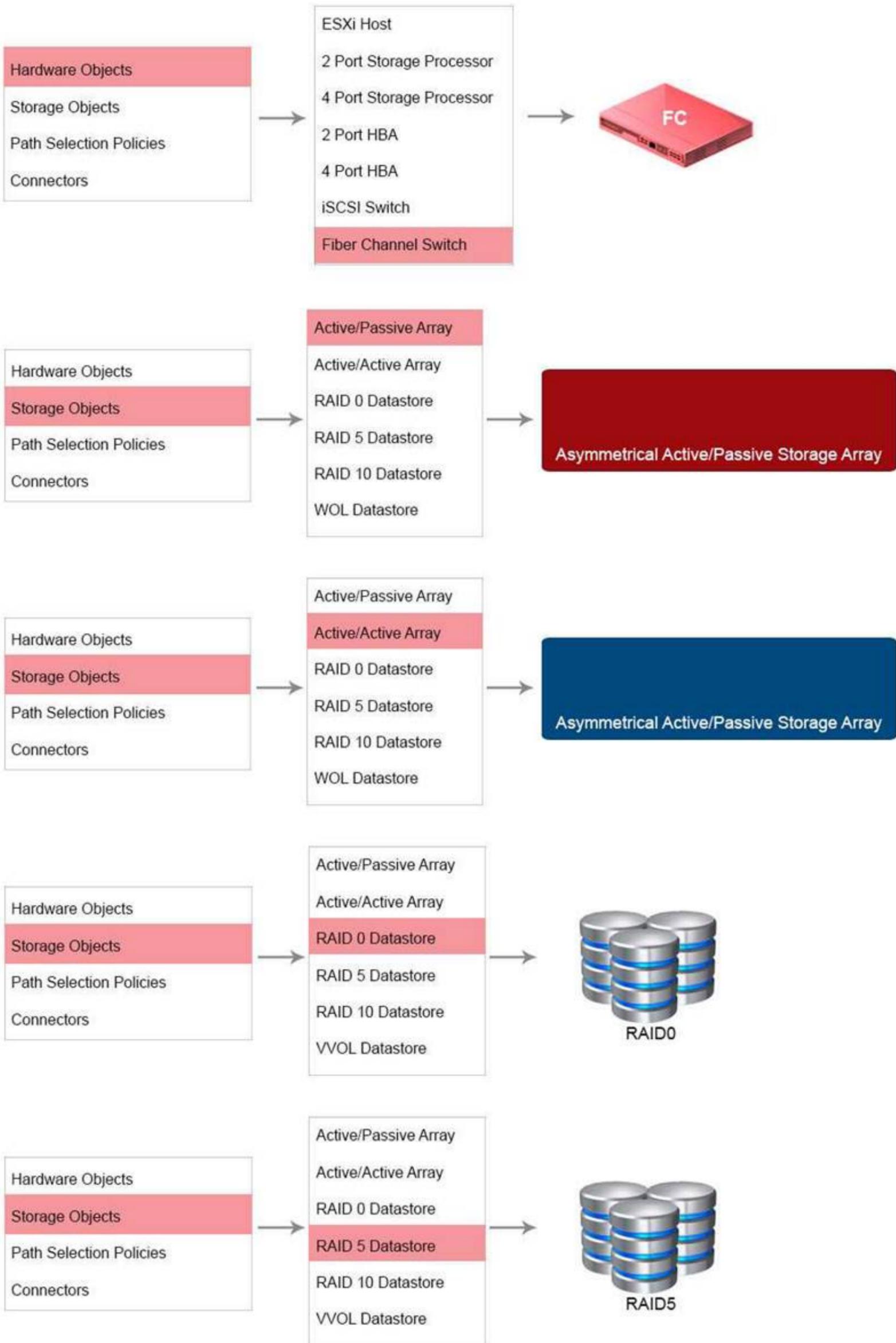
Create a logical design that be applied to each of the ESXi Hosts. The design should meet, but not exceed the customer's requirements and should include:

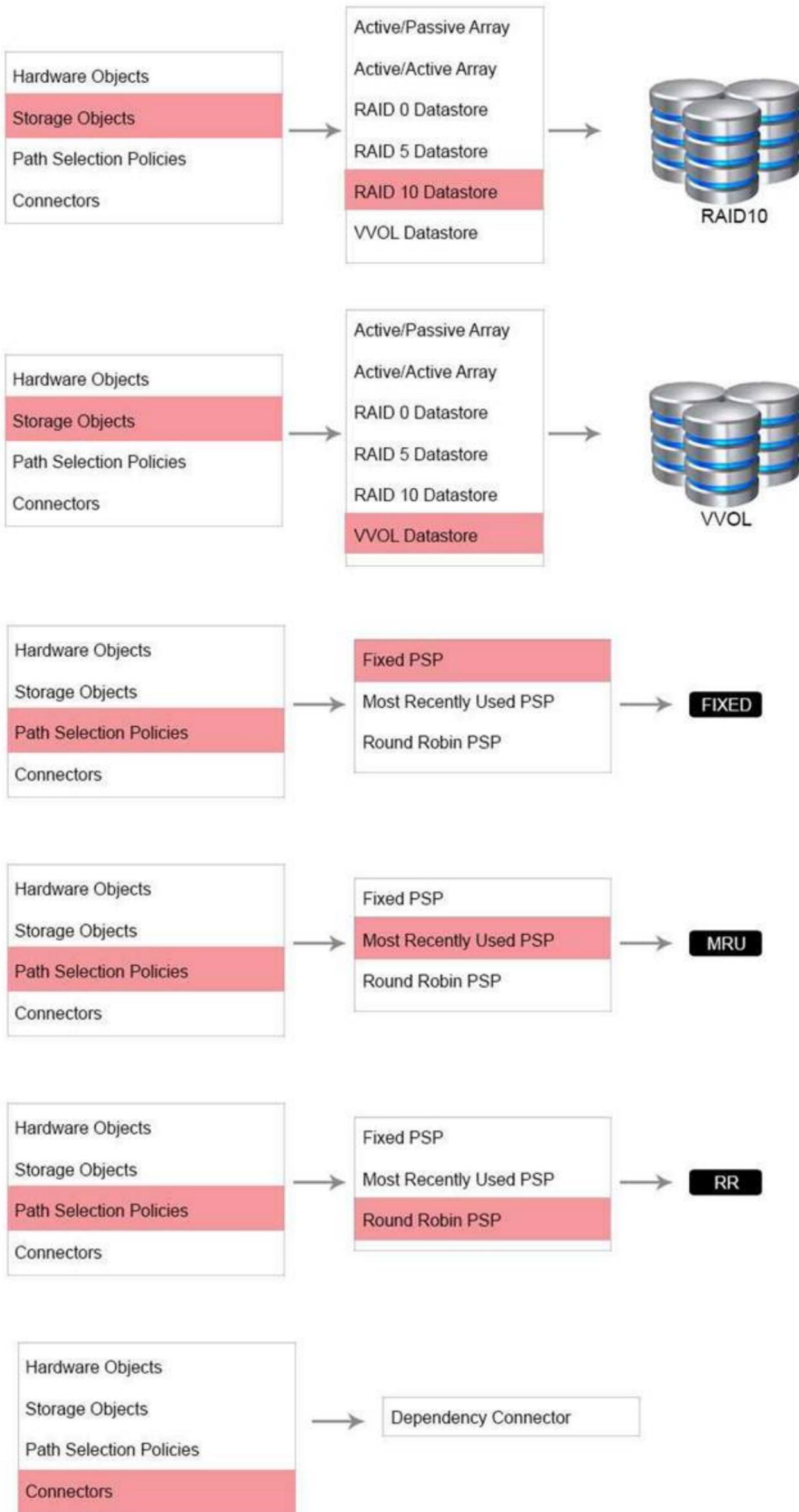
- All required hardware
- All required resources

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.







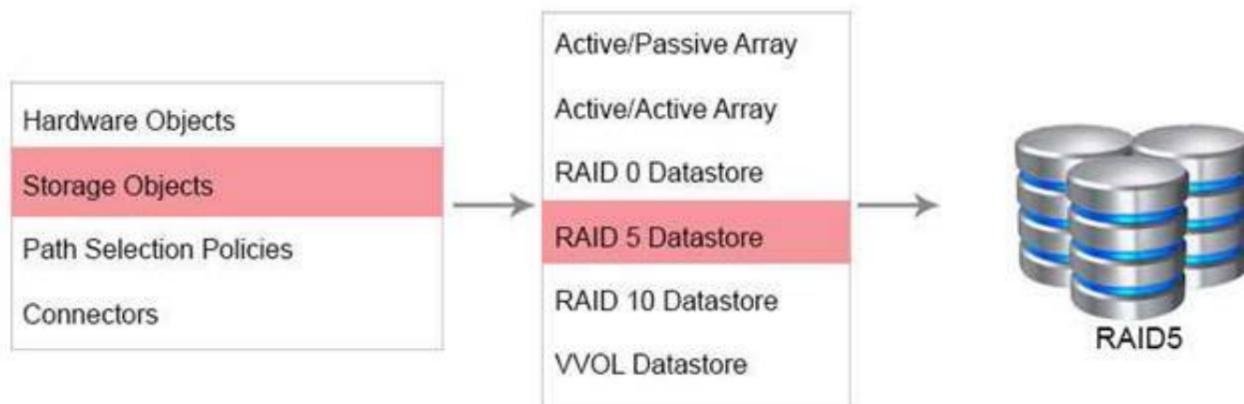
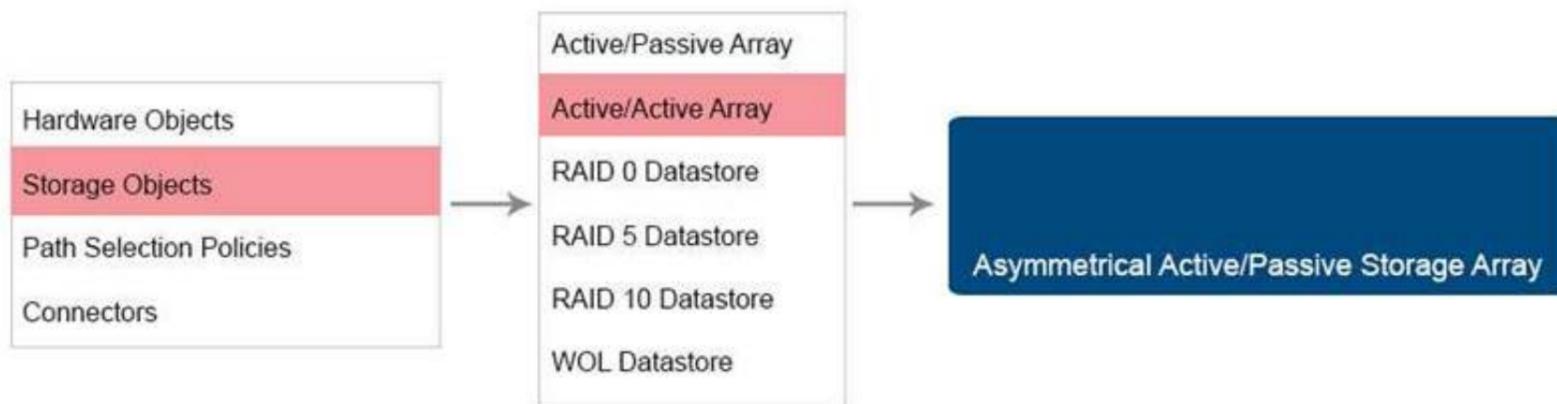
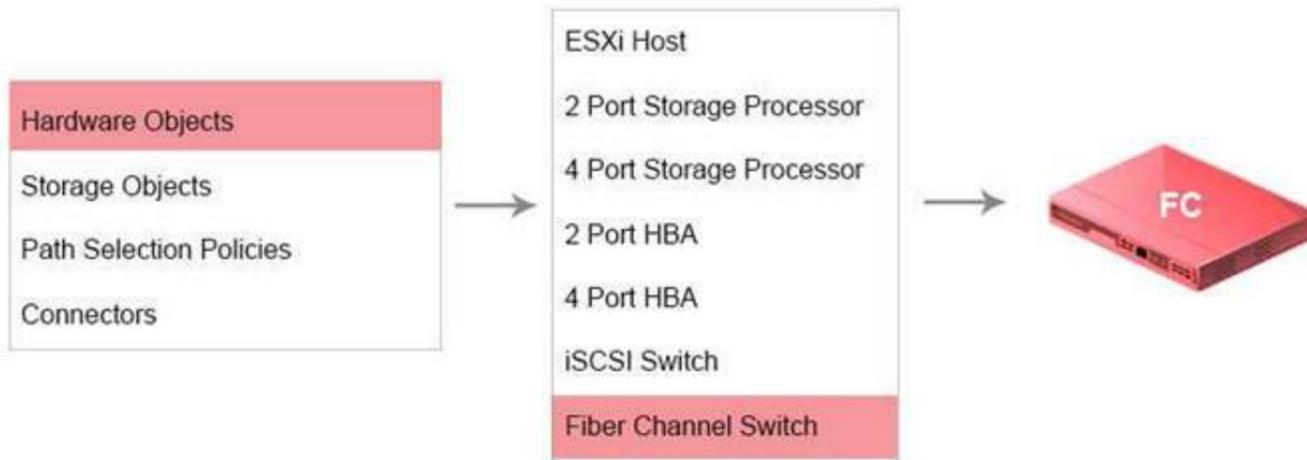
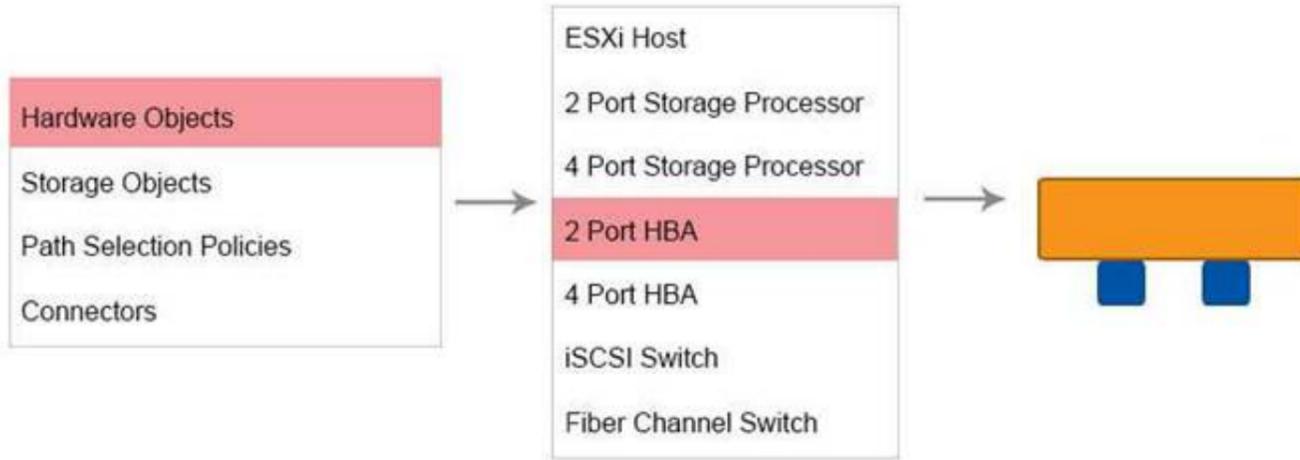
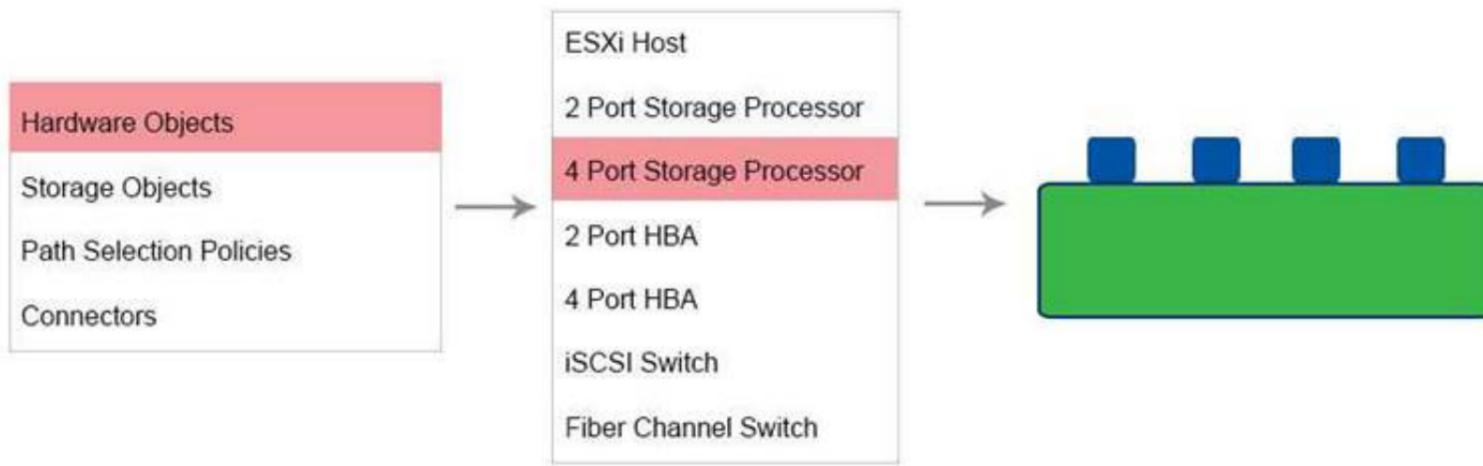


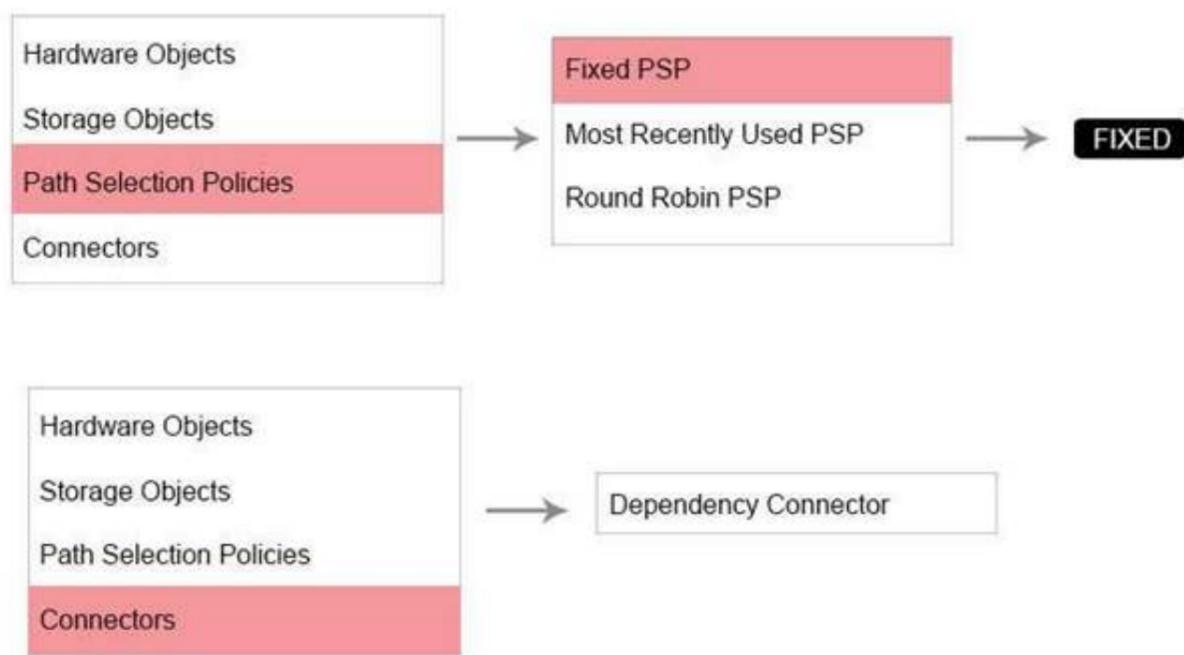
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Check below for answer solution





NEW QUESTION 76

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.)

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

Answer: BD

NEW QUESTION 77

A solution architect has been tasked with designing a new environment for a company's growing needs, and has obtained this information:

- Uptime is critical during regular business hours when 95% of the transactions occur. Application uptime must be 99.9% during those hours.
- In a true Disaster, the business can withstand a day of data loss and half a day of downtime.
- The company is one year into a 5-year contract with the co-lo data center.
- The building that is currently occupied no hanger has any floor space available, but the company has 3 empty racks of space. The co-lo can provide up to 11KVA of power per rack.
- There are current contacts with Dell to provide servers and with Cisco to provide the network components.
- The network team has standardized on an end-to-end 10Gb network.

Based on this information, what are two requirements for the new design? (Choose two.)

- RTO of 24 hours.
- RTO of 12 hours.
- The application must be available 99.9% during business hours.
- 11KVA of power is available per rack.

Answer: BC

NEW QUESTION 78

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.

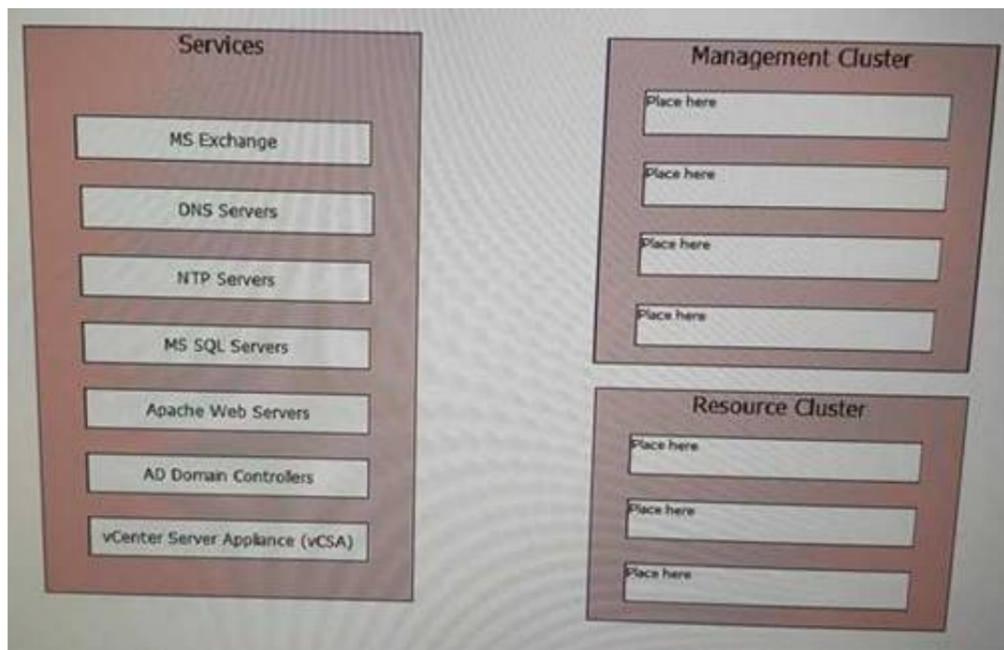
Which three choices can the architect use to keep the traffic separated? (Choose three.)

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

Answer: BCD

NEW QUESTION 82

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 85

A customer has requested a vSphere 6.5 deployment design that utilizes vCenter Server and the use of VMware-recommended best practices for securing vCenter Server.

Which three actions would satisfy these requirements? (Choose three.)

- A. Utilizing vSphere CLI and vSphere SDK for Perl scripts.
- B. Restricting vCenter Server access to only the management network
- C. Assigning the default Administrator role to all administrator users.
- D. Synchronizing time in vCenter Server with a NTP source.
- E. Removing expired and revoked certificates from vCenter Server system.

Answer: BDE

NEW QUESTION 90

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:

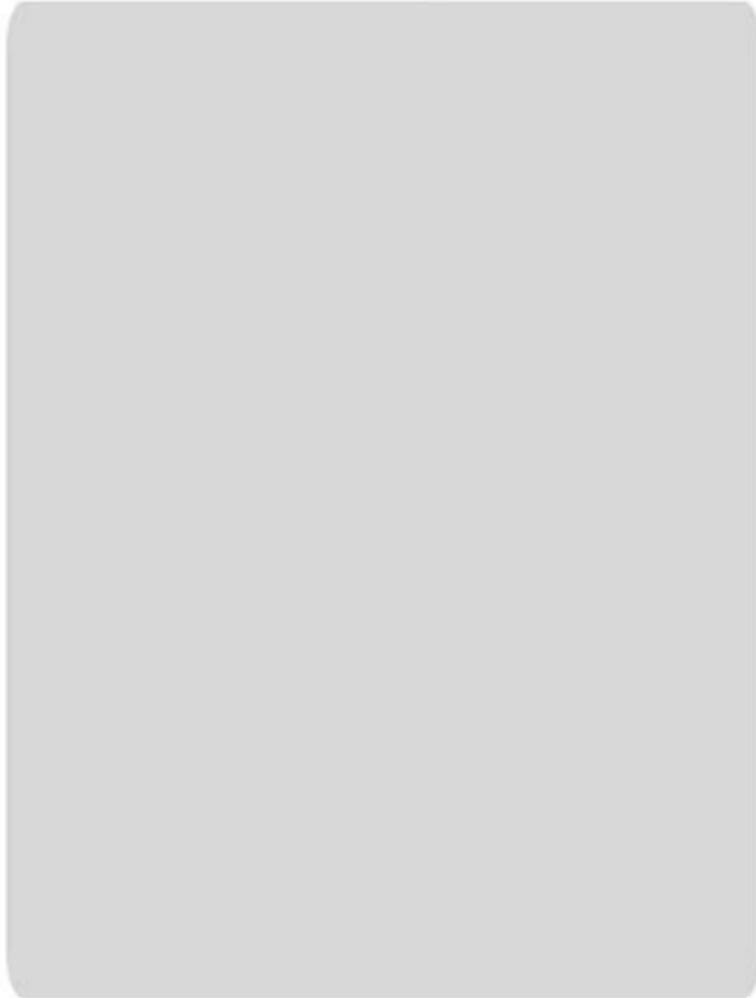
- Database workloads – Gold
- Application workloads – Silver
- Web workloads – Bronze

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

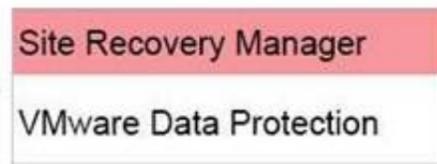
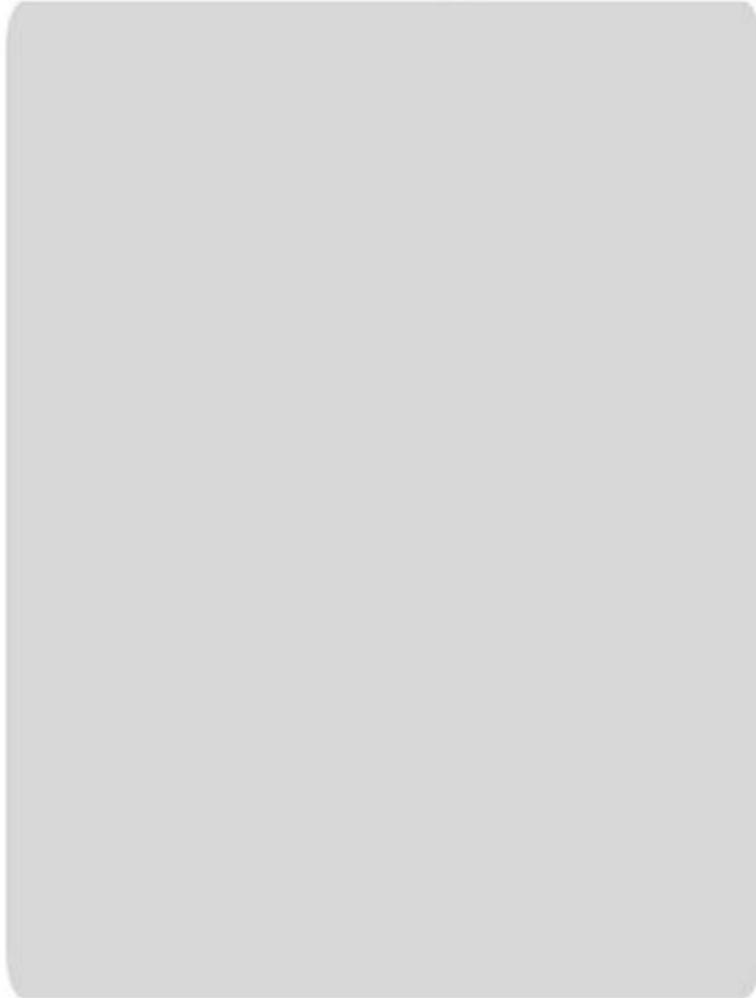
Create a design that incorporates the required elements:

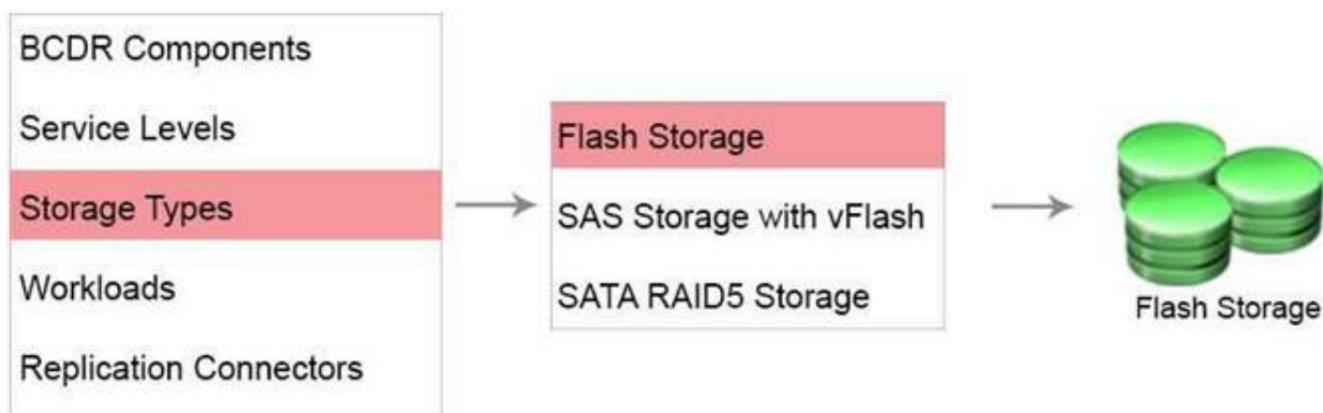
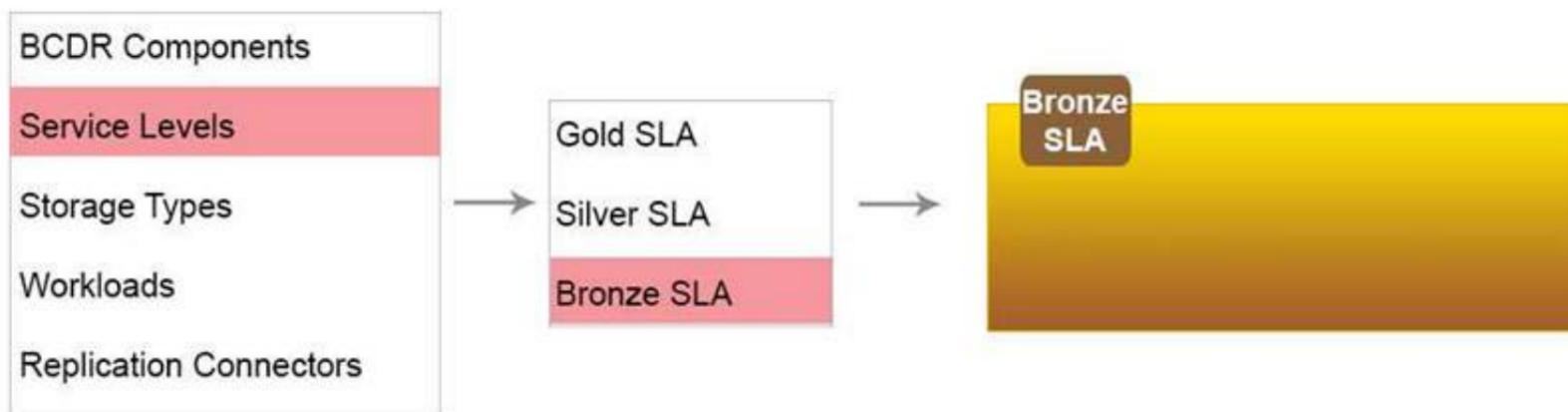
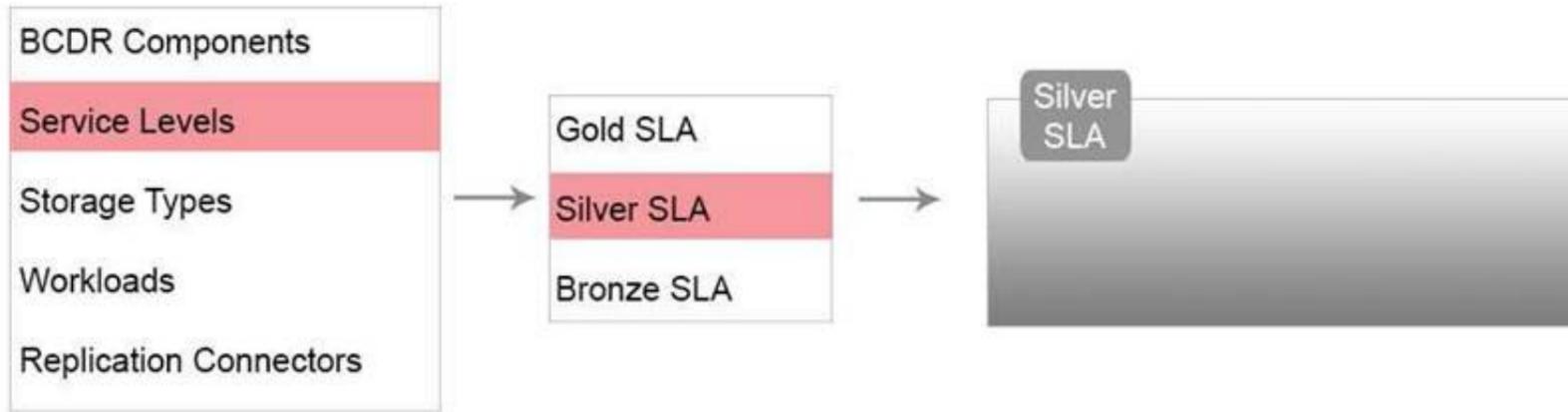
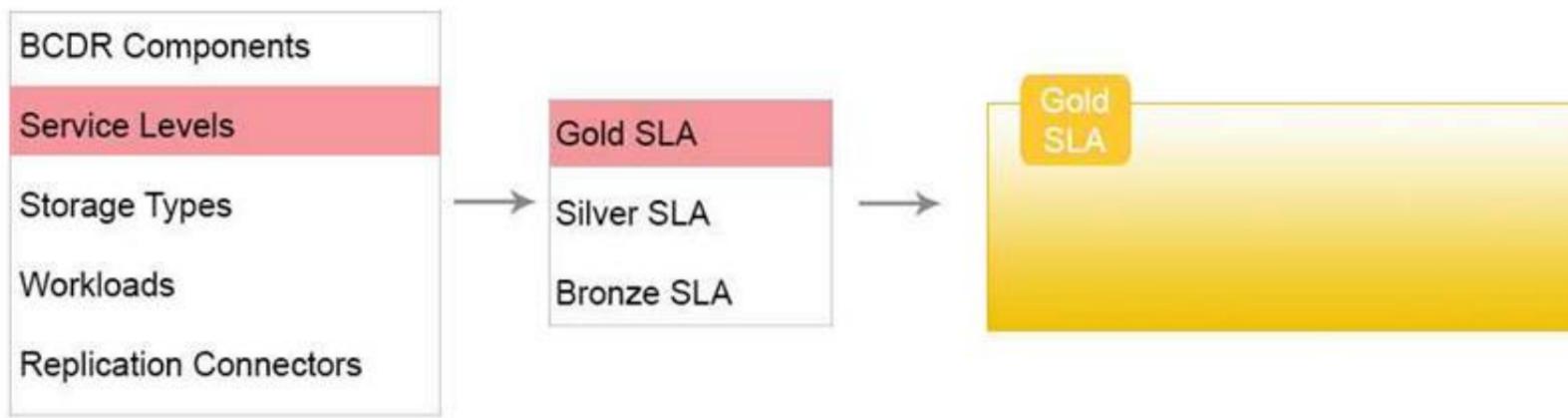
- Place an SLA container for each of the appropriate SLAs into the appropriate sites.
- Place the appropriate storage type(s) for each SLA into the SLA container.
- Place the appropriate workload(s) into the SLA containers.
- Place the appropriate BCDR components into the SLA containers.
- Connect any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

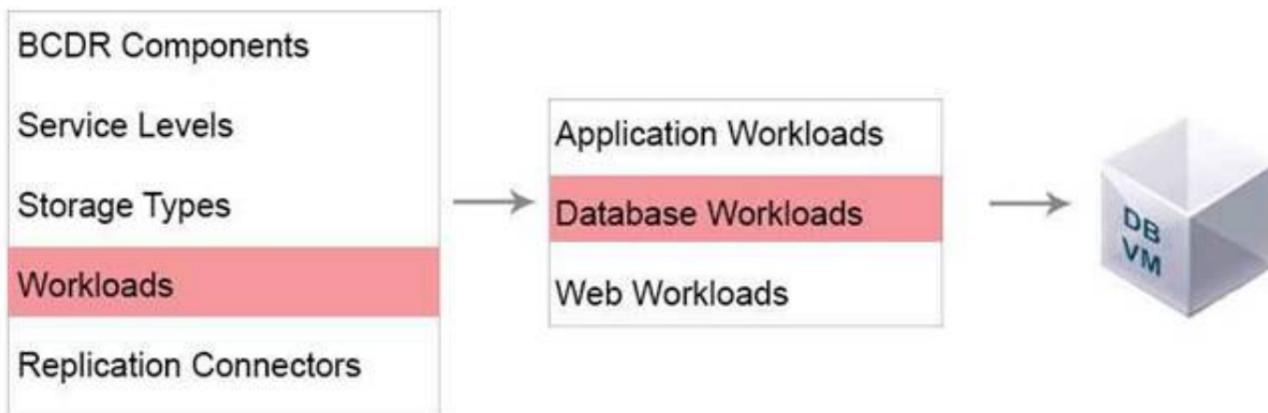
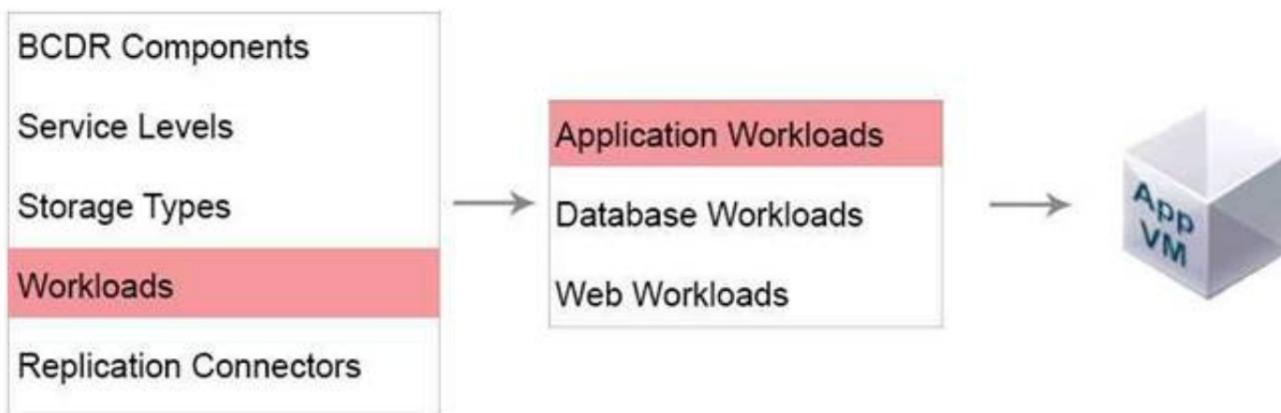
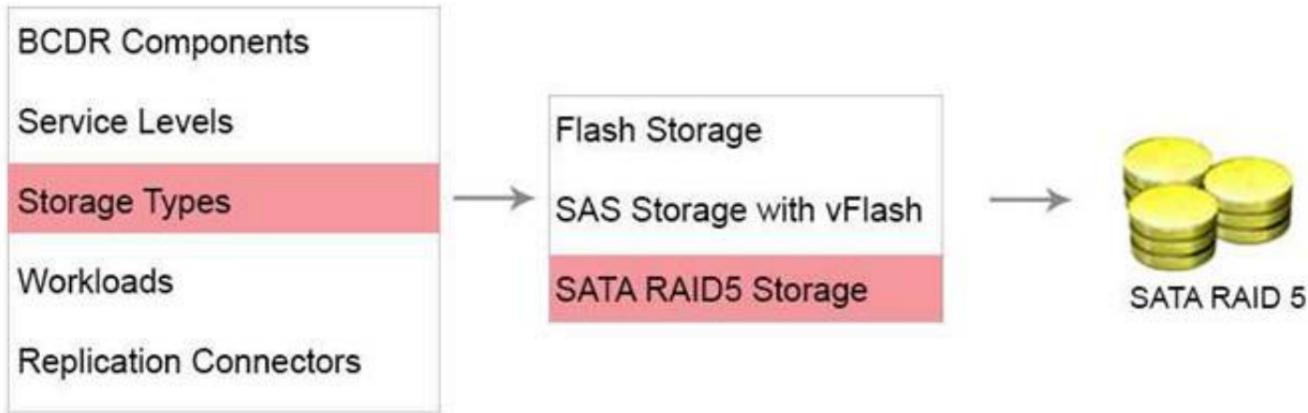
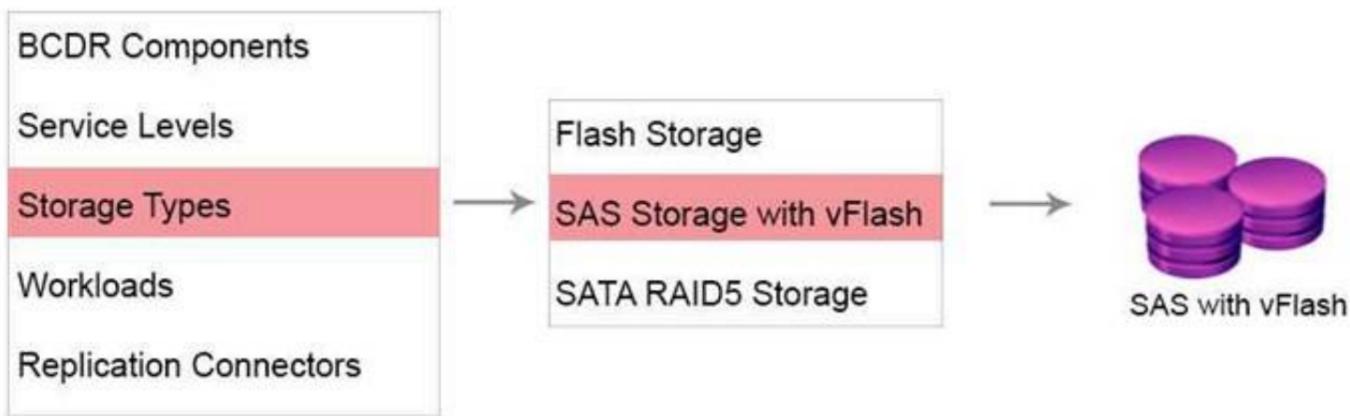
Primary

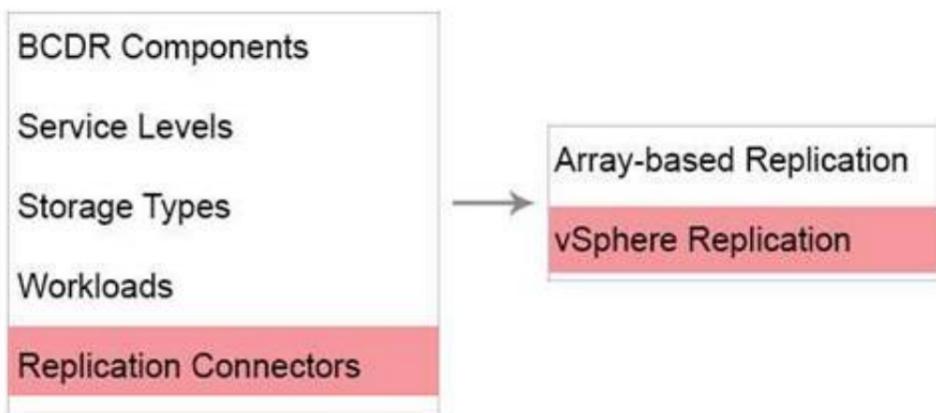
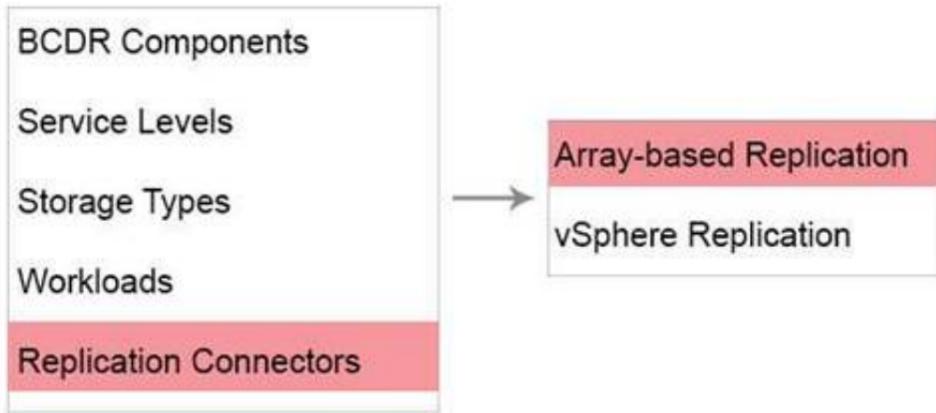
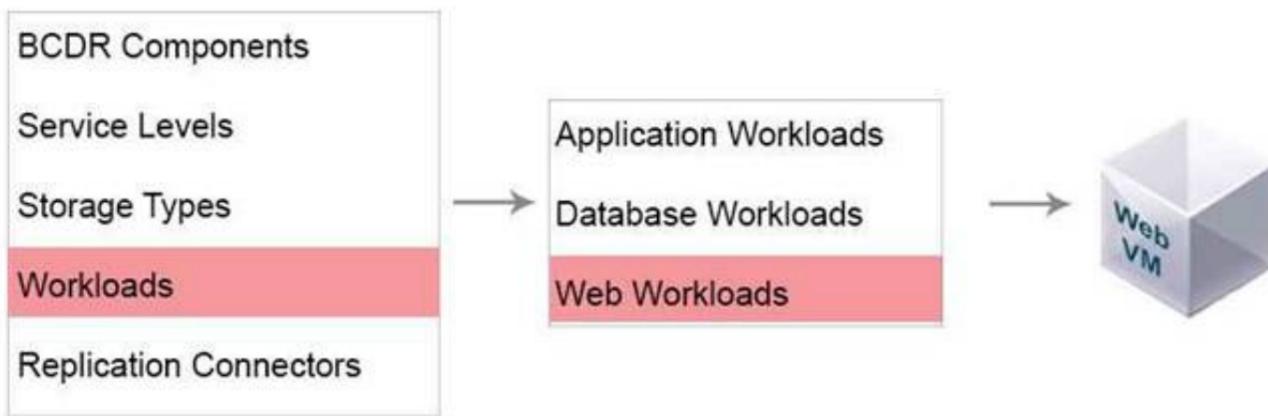


Secondary







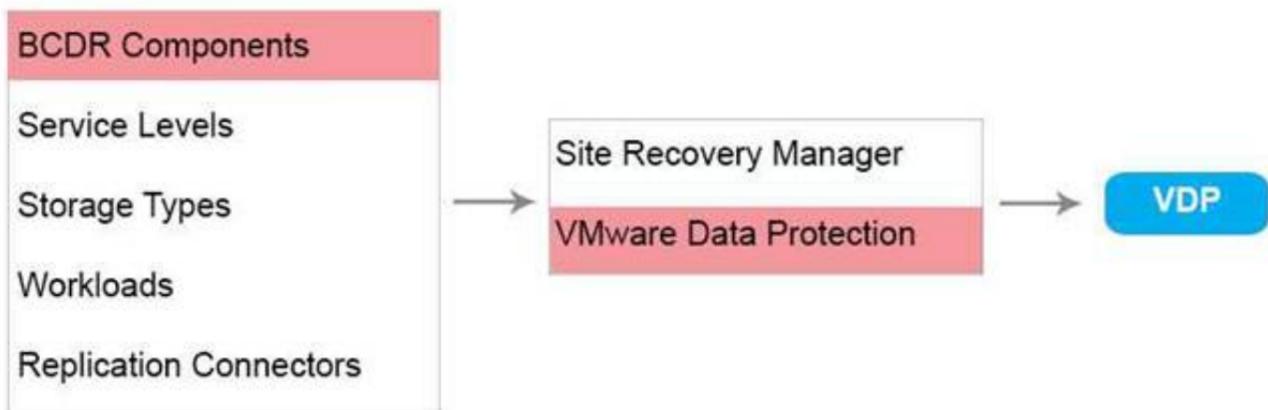


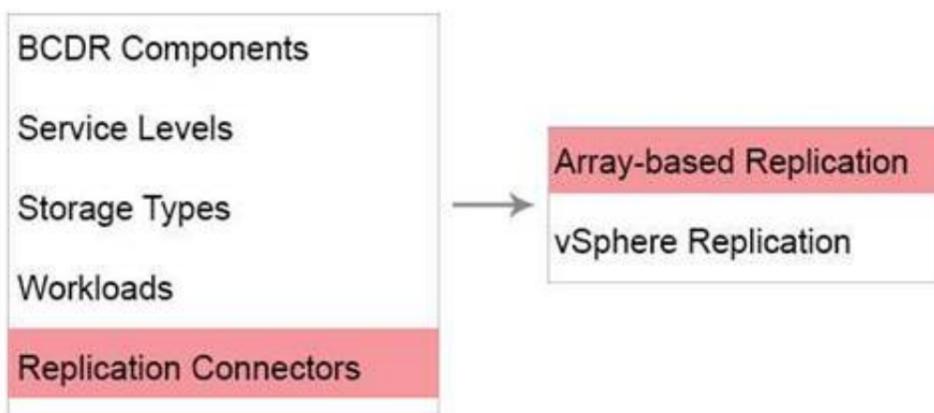
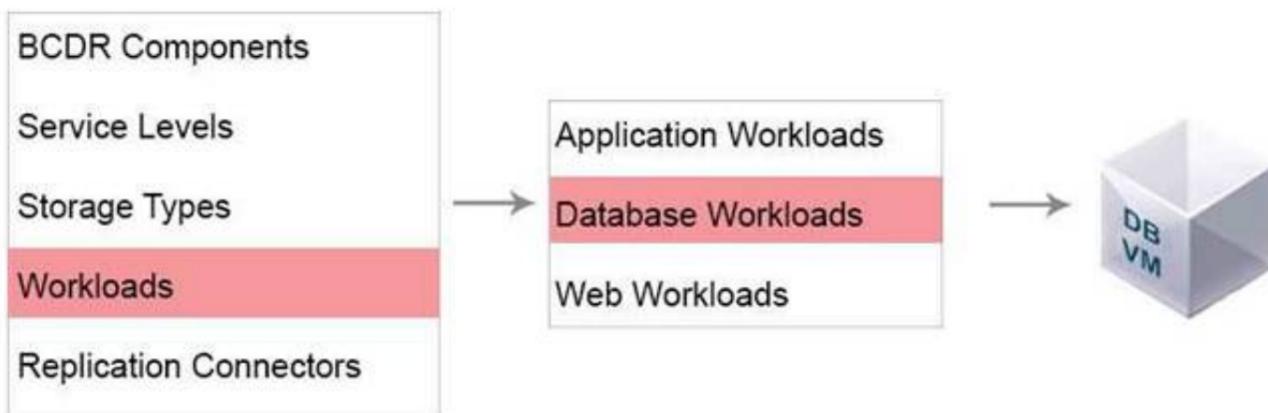
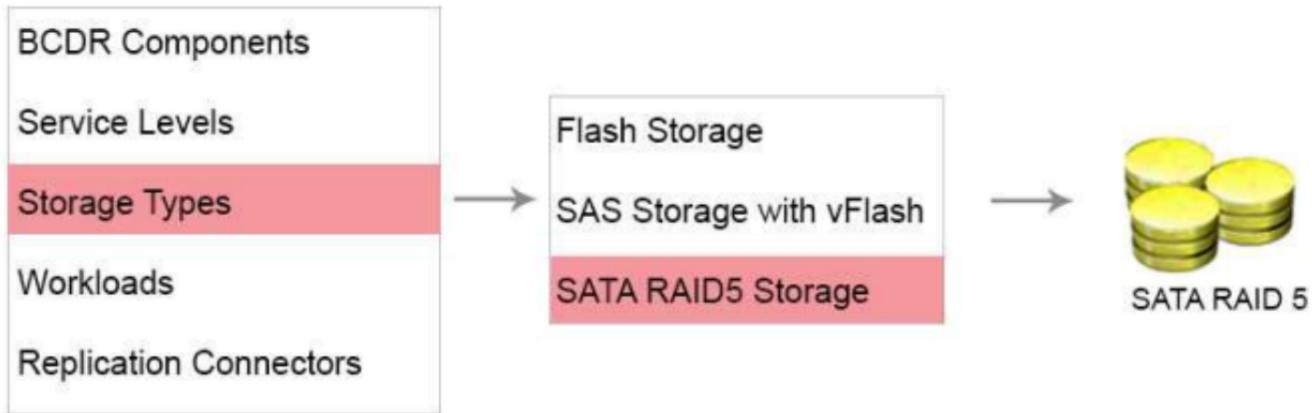
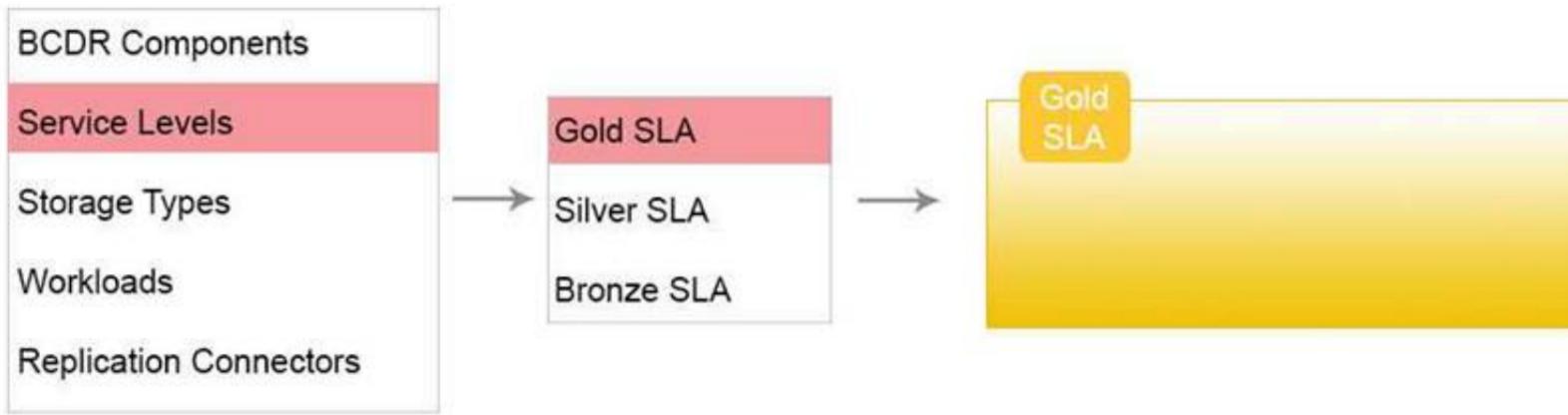
- A. Mastered
- B. Not Mastered

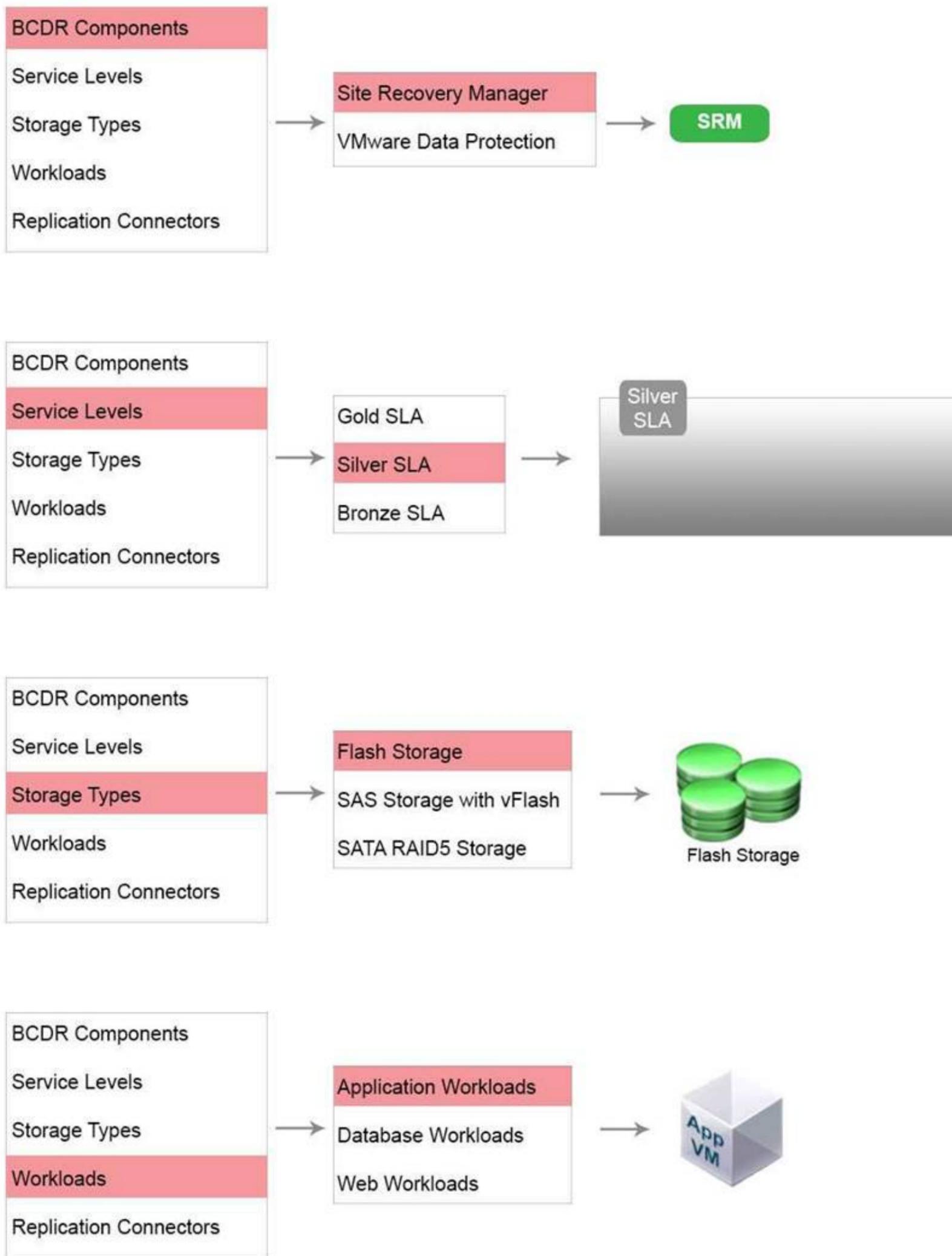
Answer: A

Explanation:

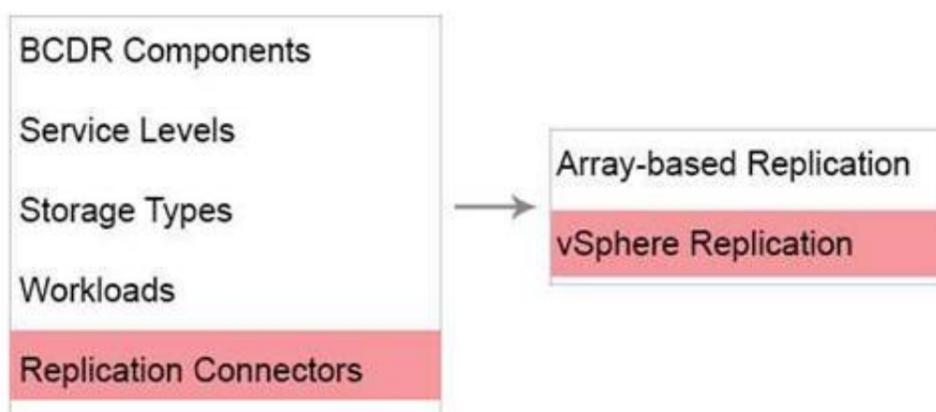
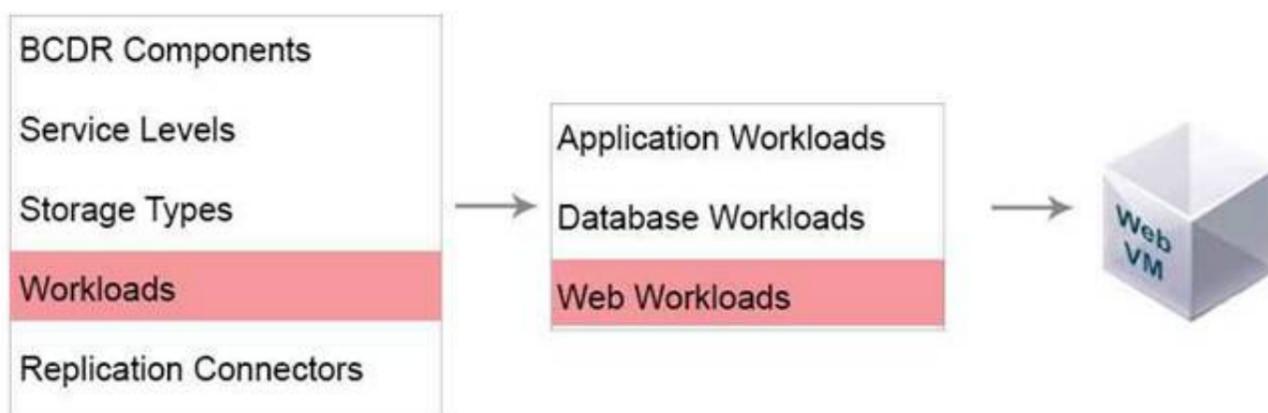
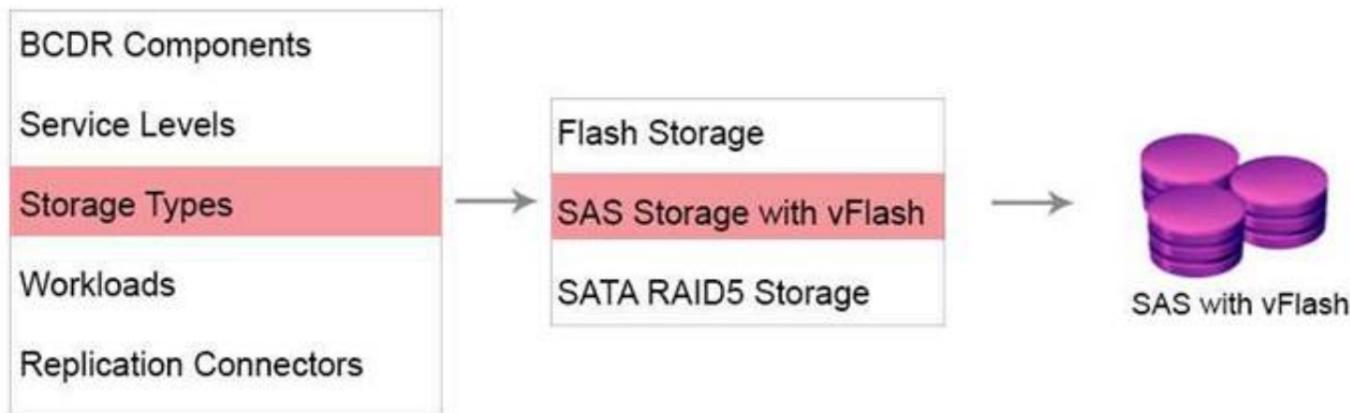
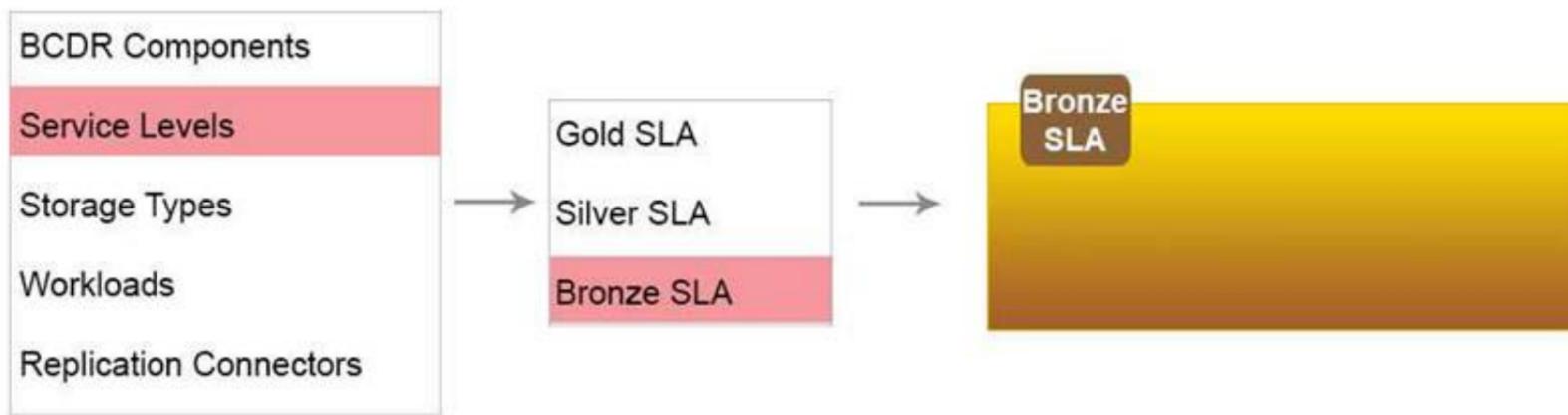
Check below for answer solution Primary







Secondary



NEW QUESTION 94

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 95

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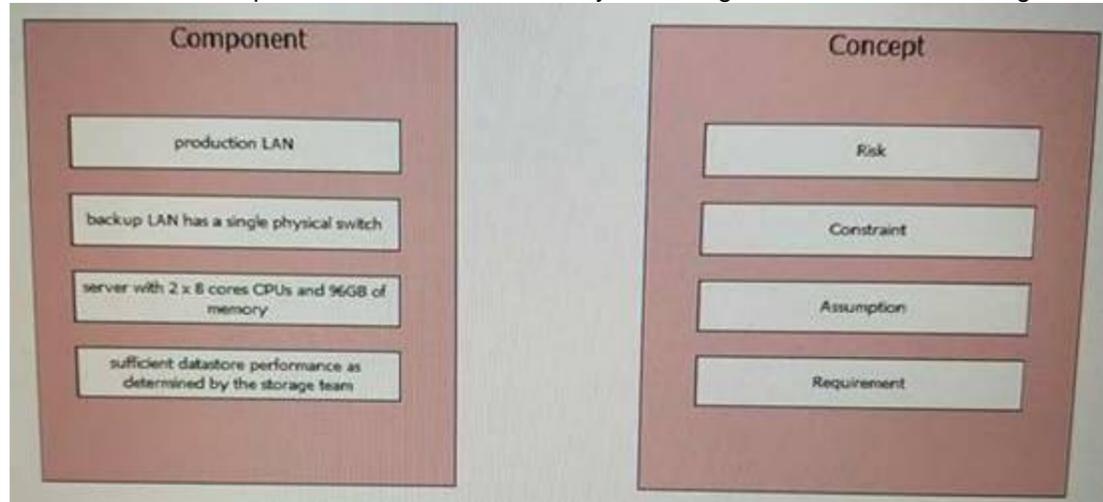
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NEW QUESTION 1

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.



- A. Mastered
- B. Not Mastered

Answer: A

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

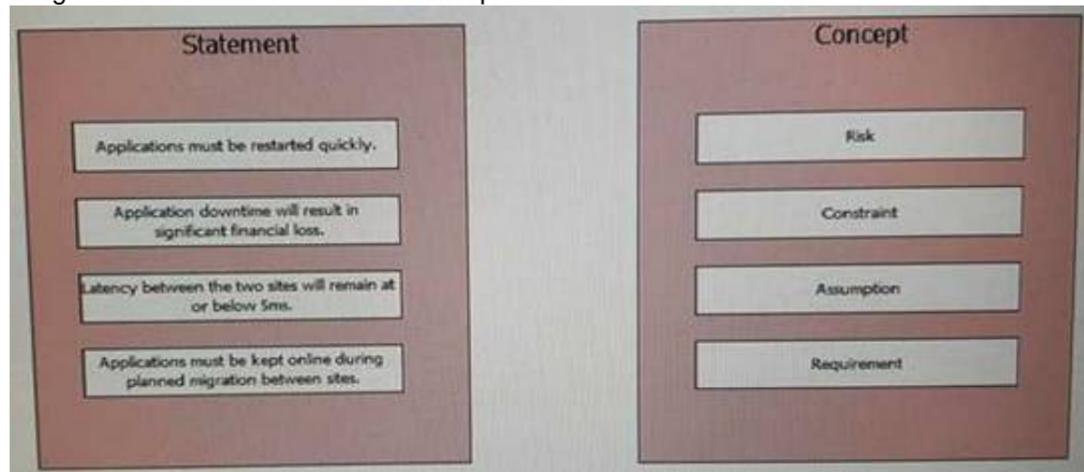
NEW QUESTION 2

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 3

A company has requested assistance with a new cross-site failover design to support business-critical applications.

- It has two sites when are very well-connected, and latency is less than 5ms round trip.
- The customer requires that its applications be restarted even in the event of a total site failure.
- The applications must be kept online even when migrated during maintenance.
- Storage arrays at either site support both synchronous and asynchronous replication. Which two options are accurate application requirements for this scenario? (Choose two.)

- A. The design must ensure continuous application uptime even during a total site failure.
- B. The design must prioritize application availability.
- C. The design must ensure application recoverability at the second site.
- D. The applications are latency-sensitive.

Answer: BC

NEW QUESTION 4

A company is consolidating its IT operations efforts by moving the Finance, IT, and QA departments towards a self-service environment, following SDDC best practices.

- All departments have different priorities and expectations for uptime of the required infrastructure and applications.
- Project stakeholders are still discussing final approvals for the budget with the CFO.
- To drive down the operating cost of the environment, only blade servers will implement this project.
- To ensure business continuity, a colocation provider was chosen to fail over virtual machines.
- The implementation of the project will follow a public reference architecture provided by VMware. What is the assumption in this scenario?

- A. The chosen architecture is sufficient.
- B. All departments demand different SLAs.
- C. Final budget approvals are being discussed.
- D. The environment will be shared by several departments.

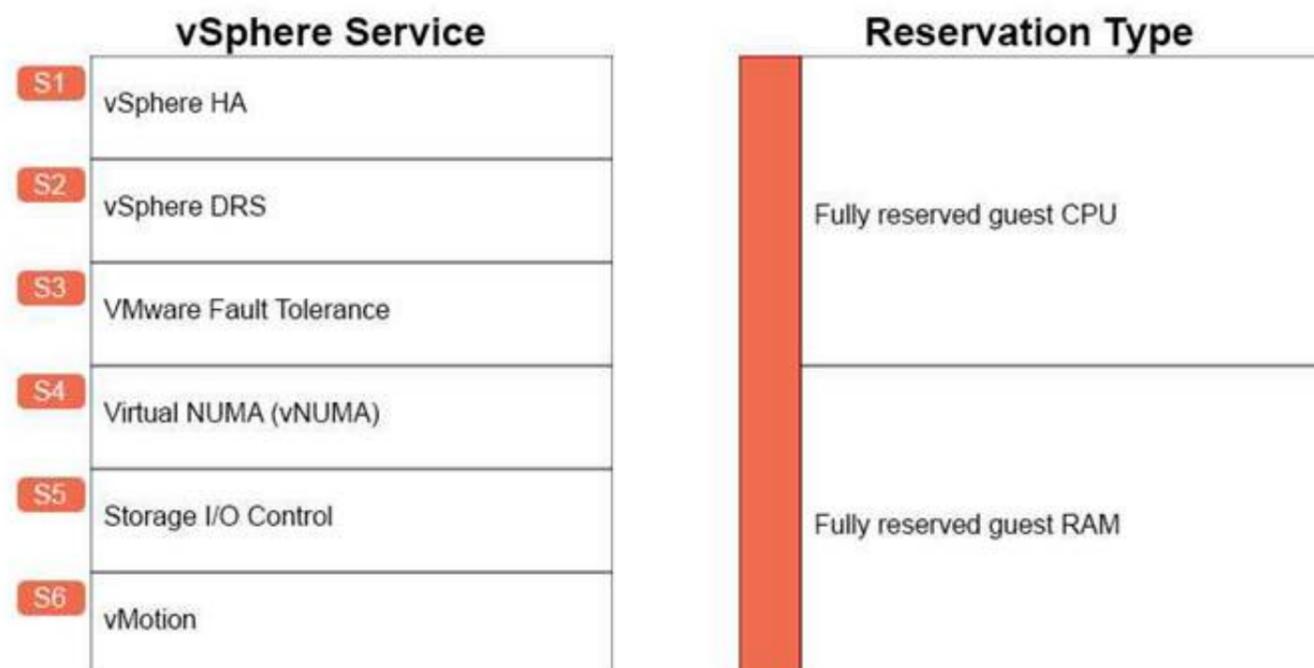
Answer: A

NEW QUESTION 5

You have been tasked with creating a vSphere 6.5 design for an organization. The organization has a mission critical application that must be able to obtain its required CPU and memory resources even if contention occurs. You must determine which vSphere service(s) will allow for resources to be reserved.

Associate the vSphere Service on the left with the corresponding Reservation Type on the right by dragging the red button (S1-S6) over the text of the Reservation Type.

NOTE: A vSphere Service may allow for more than one Reservation Type or none at all.



A. Mastered

B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 6

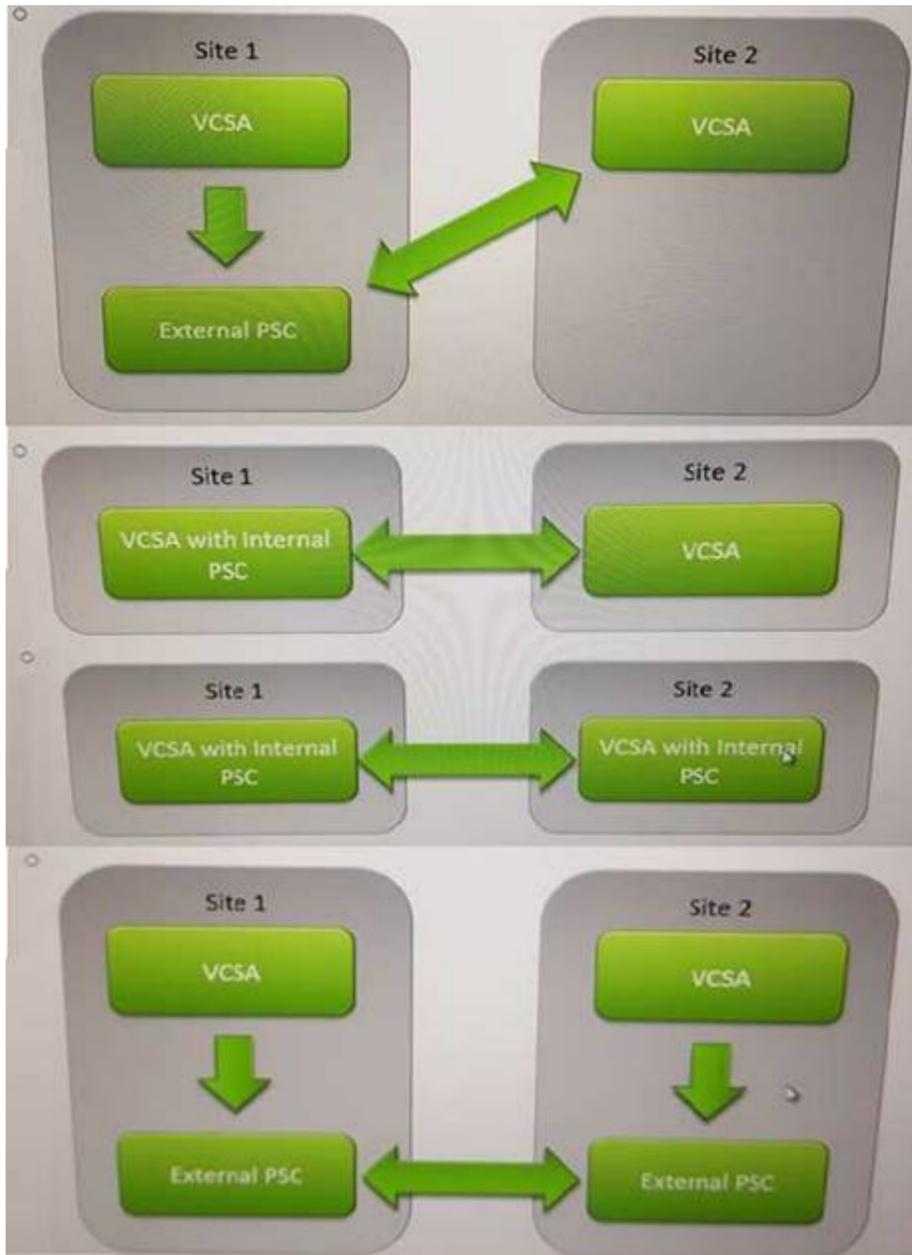
When implementing update policies for the vSphere environment, which would be the VMware-recommended way to update the vCenter Server Appliance (VCSA) when an underlying operating system (OS) patch is released?

- A. Introduce a policy that requires a system administrator to check if a new appliance update (which might include an OS update) is available from the downloads section of MyVMware portal, and follow the VCSA documentation to apply the update.
- B. Do nothing - the VCSA applies all OS updates automatically without any human interaction.
- C. Introduce a policy that requires a system administrator to go online and check with the OS vendor to see if a new version is available
- D. If it is, download it manually, log in to the VCSA with the root credentials, and proceed with the OS update.
- E. Configure VMware Update Manager to download the OS update and apply it on a scheduled basis.

Answer: A

NEW QUESTION 7

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-vmware-server-deployments/>

NEW QUESTION 8

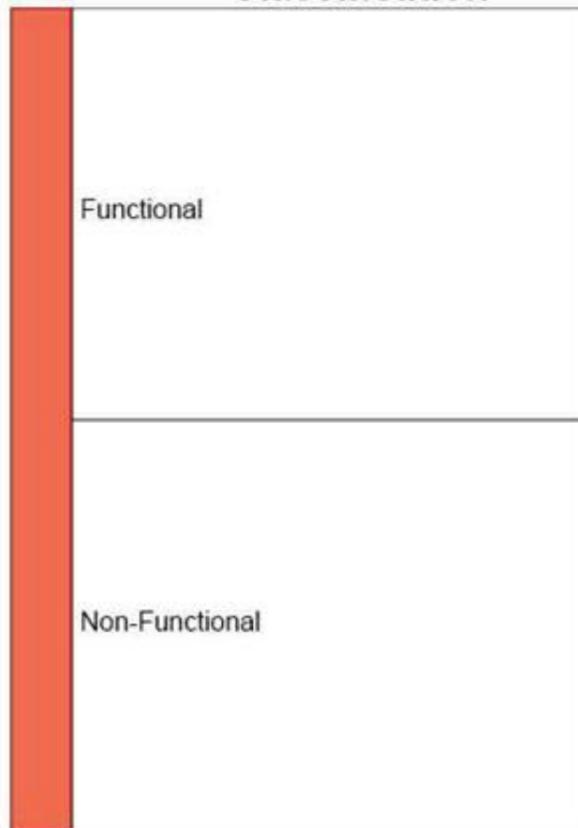
You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has provided information via requirements gathering. Evaluate each statement and determine if the requirement is functional or non-functional.

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

Requirements

R1	The design must provide sufficient capacity to current workloads with a 15% growth per year for three years.
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.

Classification



- A. Mastered
- B. Not Mastered

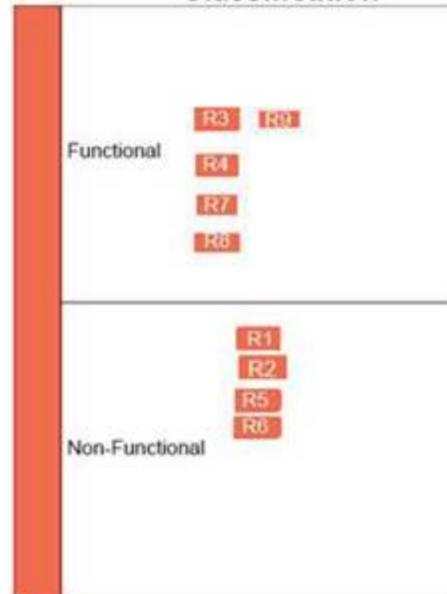
Answer: A

Explanation:

Requirements

R1	The design must provide sufficient capacity to current workloads with a 15% growth per year for three years.
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.
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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.

Classification



NEW QUESTION 9

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 10

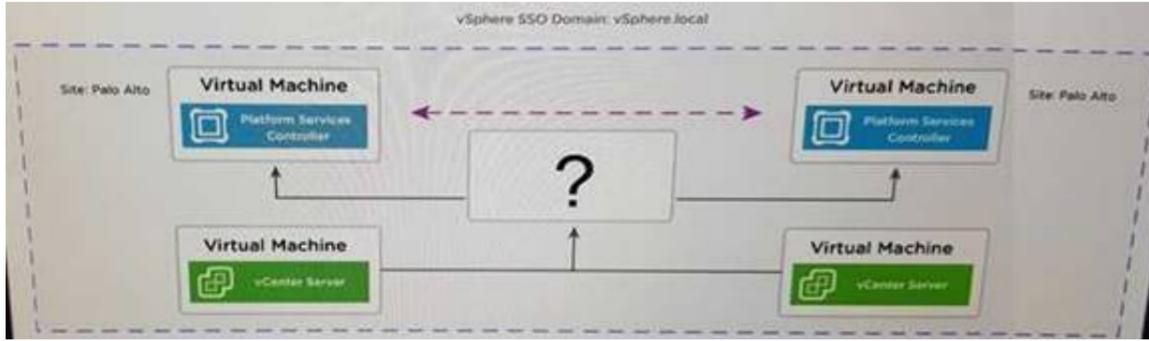
When considering server consolidation, plan on running vCPUs per core.

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

Answer: A

NEW QUESTION 10

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 11

A company has requested that a new vSphere 6.5 design be created.

- The existing environment consists of 32 vSphere 6.0 hosts attached to an iSCSI storage array.
- The storage arrays contain external customer financial and medical records used by the company's investment and medical services division.

The design must:

- protect the company's existing data center investment
- expand to a second data center site
- introduce process automation
- expand to and fail over to public cloud

Which two non-functional requirements are applicable for this design? (Choose two.)

- A. The product of the design must account for regulatory compliance.
- B. The automation solution must be compatible with the existing equipment.
- C. The product of the design must feature 3DES encryption at the virtual machine disk level.
- D. At least two 10Gbps interfaces must be dedicated to storage on each host.
- E. Every host in the design must have Lockdown Mode enabled for security.

Answer: CD

NEW QUESTION 14

A number of factors determine how many physical adapters are needed in a host design. Which of the following is not one of them?

- A. Virtual machine size
- B. Amount of bandwidth required
- C. Security requirements
- D. Hardware fault tolerance

Answer: A

NEW QUESTION 15

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.)

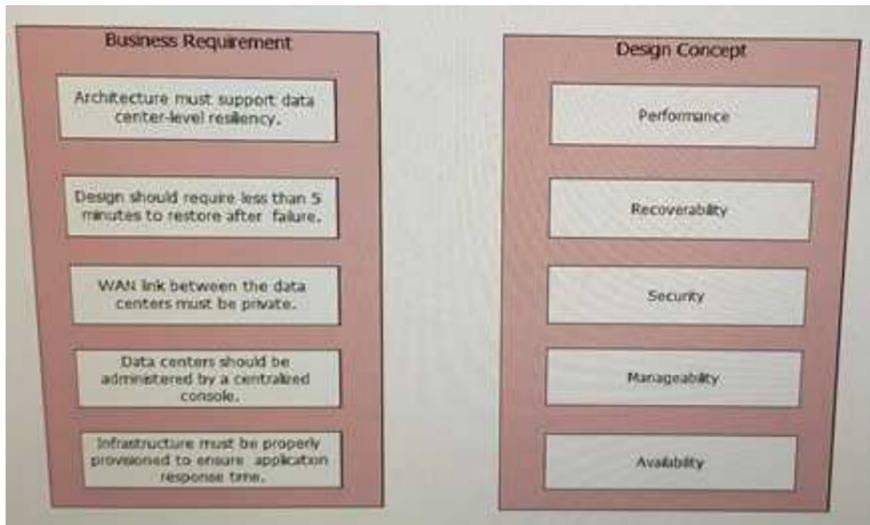
- A. powered-off Windows Server 2008 physical machine
- B. powered-on Windows Server 2000 Workstation virtual machine
- C. powered-off Windows Server 2008 Workstation virtual machine
- D. powered-on Windows Server 2008 physical machine

Answer: CD

NEW QUESTION 18

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.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

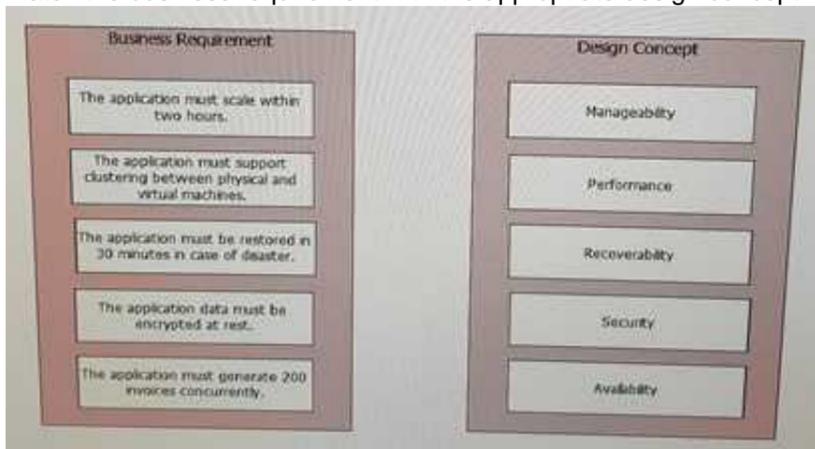
Performance --> Infrastructure must be properly provisioned...Recoverability --> Design should require less than 5' to restore...Security --> WAN links between..Manageability --> DCs should be administered by a centralized consoleAvailability --> Architecture must support DC level resiliency

NEW QUESTION 21

A leading steel manufacturer relies on SAP for purchase, sales, add invoice processing.

- It is planning to virtualize its servers to reduce CAPEX and OPEX.
- However, its CIO is concerned about the availability, performance, manageability, recoverability, and security for the SAP database and ERP instance.

Match the business requirement with the appropriate design concept.



- A. Mastered
- B. Not Mastered

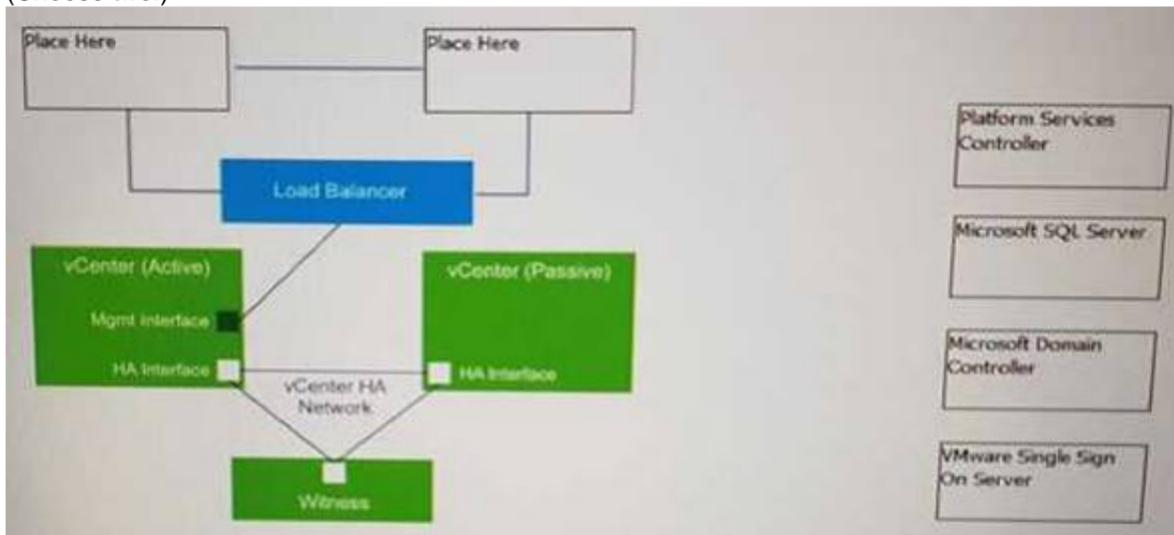
Answer: A

Explanation:

Manageability --> The App must support clustering...Performance --> The App must generate 200...Recoverability --> The App must be restored in 30...Security --> The App data must be encrypted...Availability --> The App must scale within 2h..

NEW QUESTION 26

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.)



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Platform services controller

NEW QUESTION 28

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Challenge		Technology	
C1	We can test often enough to determine if a solution is plausible.		vSphere HA C4
C2	Managing the recovery and relocation of our current servers is a manual process.		vSphere Fault Tolerance C3
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 C2
			VMware vSphere vMotion C4
			Distributed Resource Scheduler
			Virtual Machine Cloning C1
			vSphere Update Manager C4

NEW QUESTION 30

An organization is trying to determine whether it should use the Windows version of the vCenterServer or use the vCenter Server Appliance (VCSA). The organization will be using an external Oracle database, and it will manage about 30 ESXi hosts and about 200 virtual machines on 1 vCenter Server, but it would also like to see another group's vCenter Server from the same vSphere client window. Which type of vCenter Server should it use, and

why?

- A. The vCenter Server Appliance (VCSA) because it can be used with Oracle
- B. The VCSA because it can support 30 ESXi hosts
- C. The Windows version because it can support Oracle
- D. The Windows version because it can support Linked mode

Answer: A

NEW QUESTION 33

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:

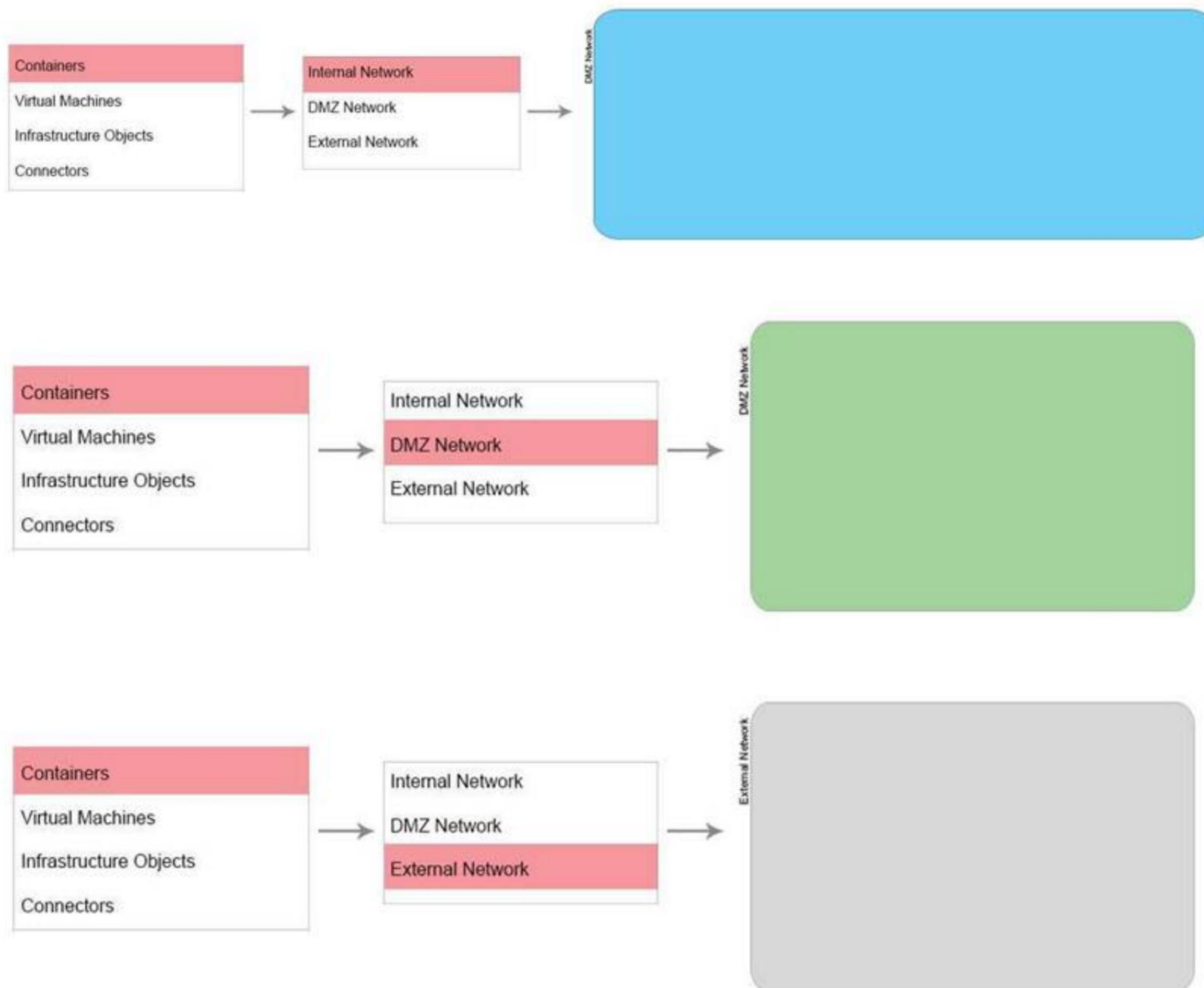
- E-mail database is replicated between two servers at a logical level, with no shared disk configurations.
- E-mail databases meet corporate criteria for LUN provisioning, and must reside directly on storage array.
- Operating system disks do not meet corporate requirements for LUN provisioning, and 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.

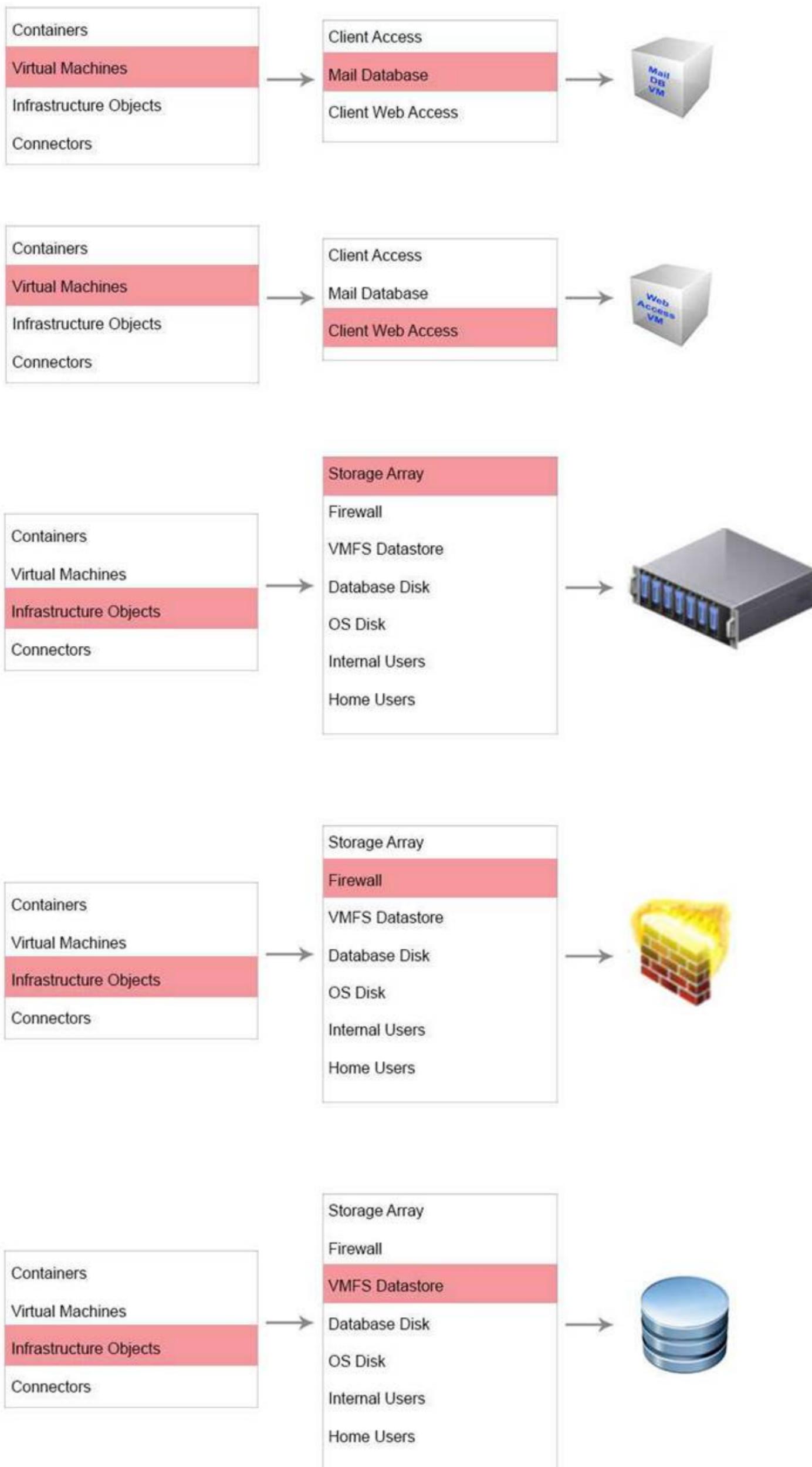
Design Requirements:

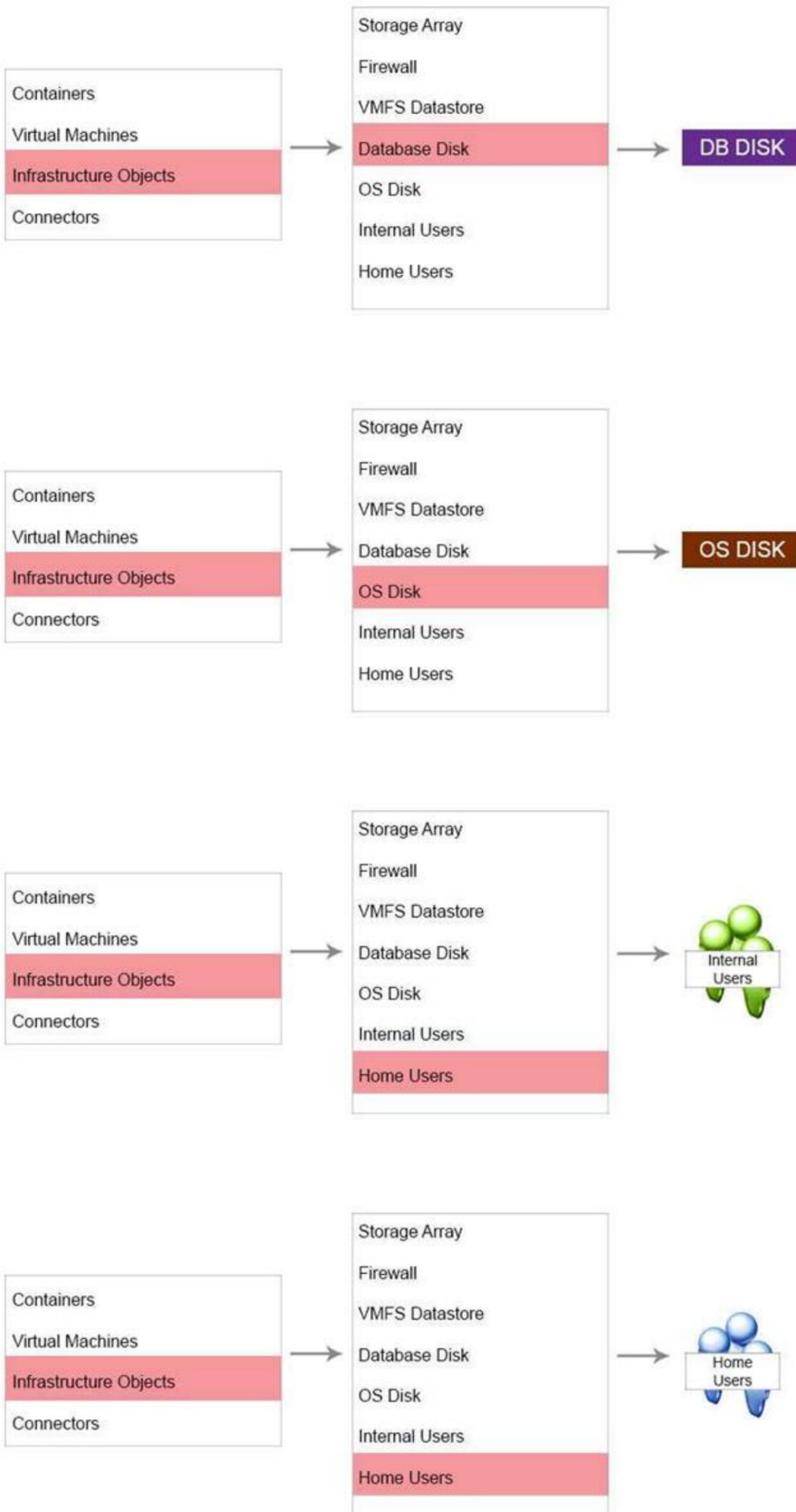
Create a solution that shows the service dependencies required for virtualizing the email application, including:

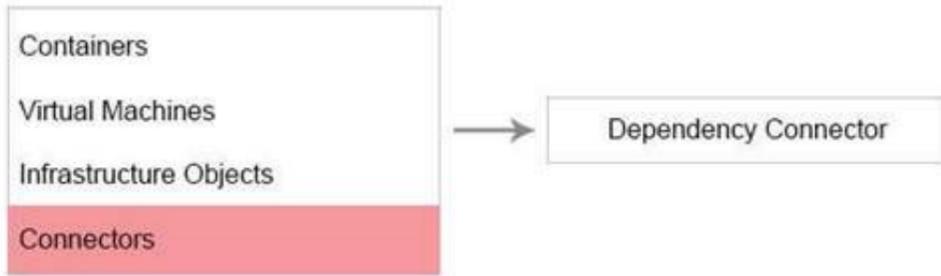
- All required storage for Mail DB VM(s) only
- All required network and security connection(s)
- All required virtual machine(s)
- All required user(s)

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).







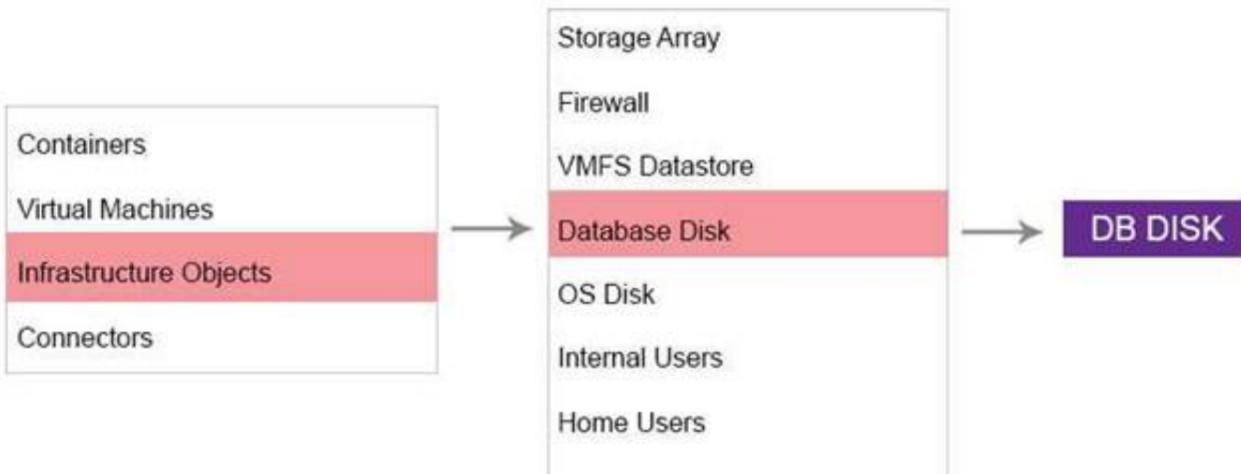
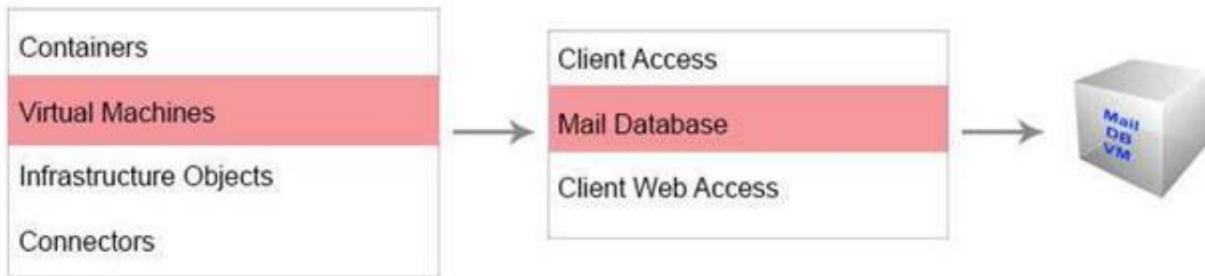
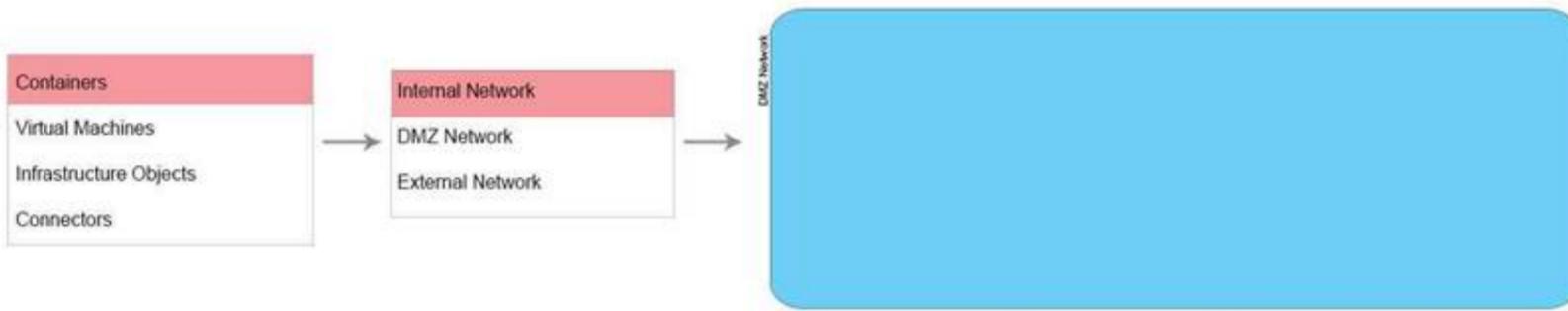


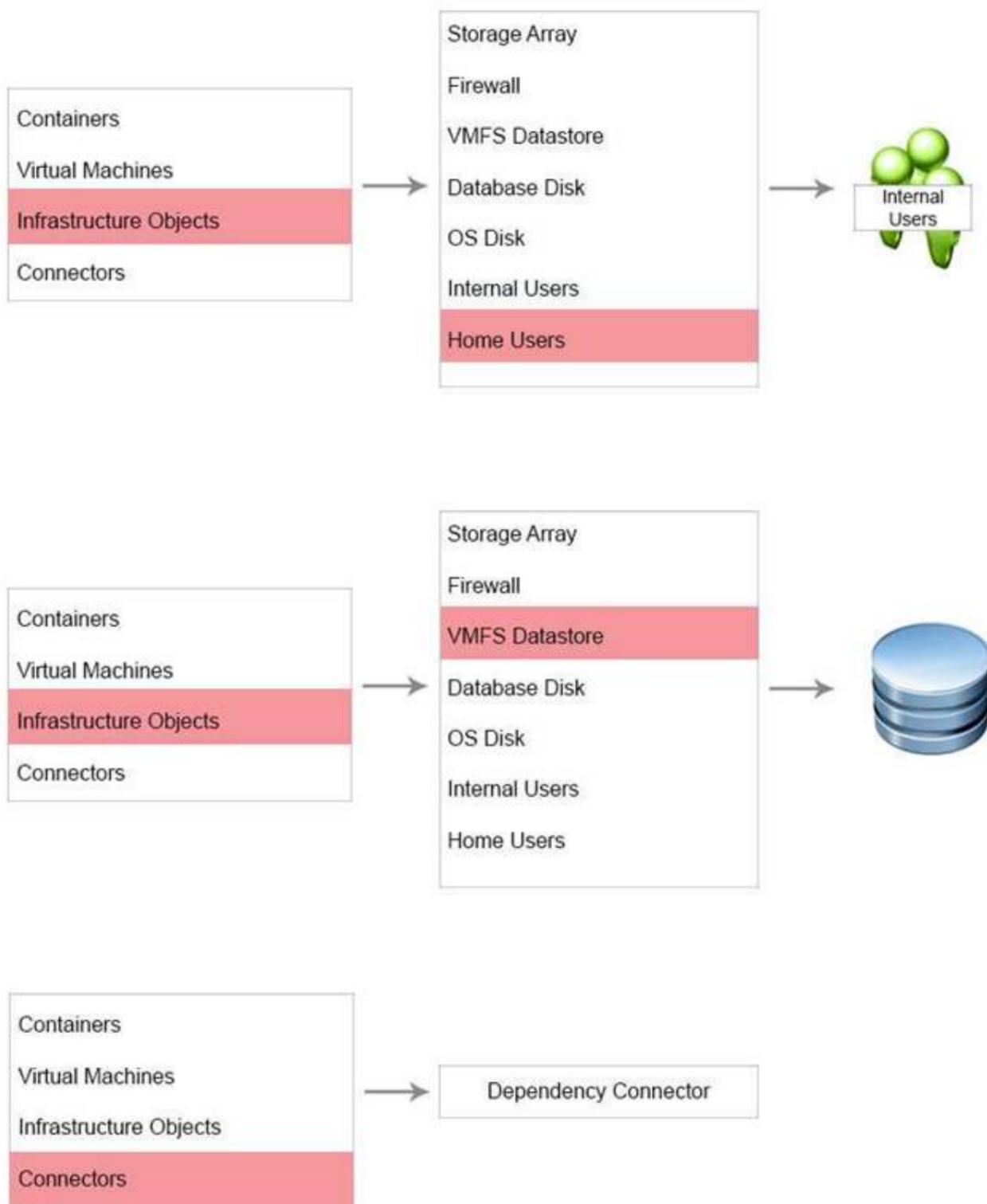
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Check below for answer solution





NEW QUESTION 34

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 38

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 41

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		
R3	The design must be vendor neutral		
R4	The design requires specific vendors and products	Logical	
R5	The design requires a change management system		
R6	The design requires a scale-out-architecture	Physical	
R7	The design requires specific CPU allocation settings		
R8	The design must use vCenter Chargeback manager 2.5.1		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 43

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:

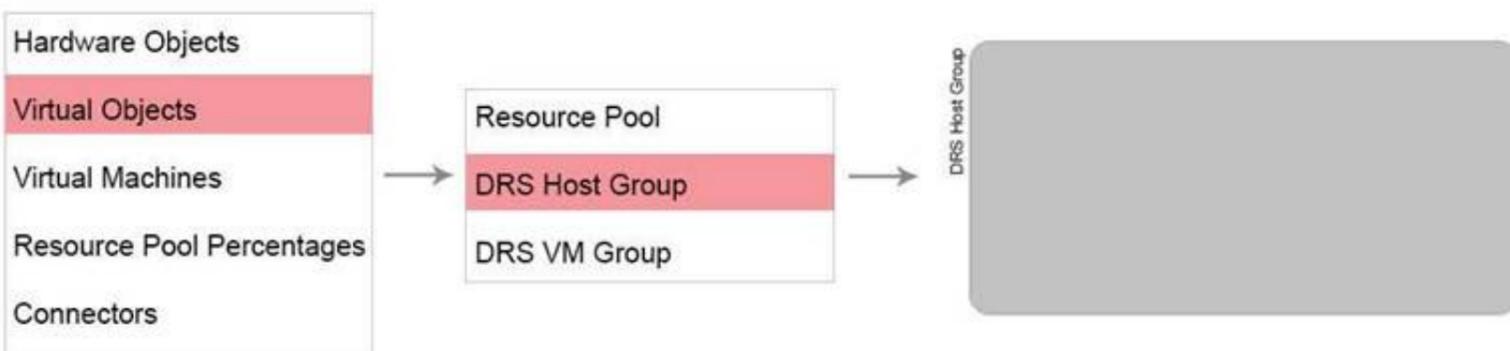
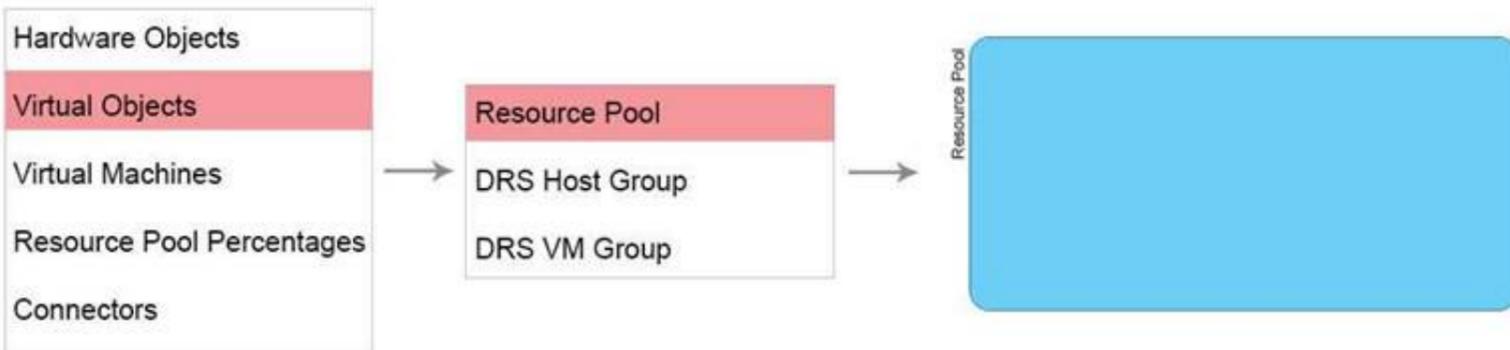
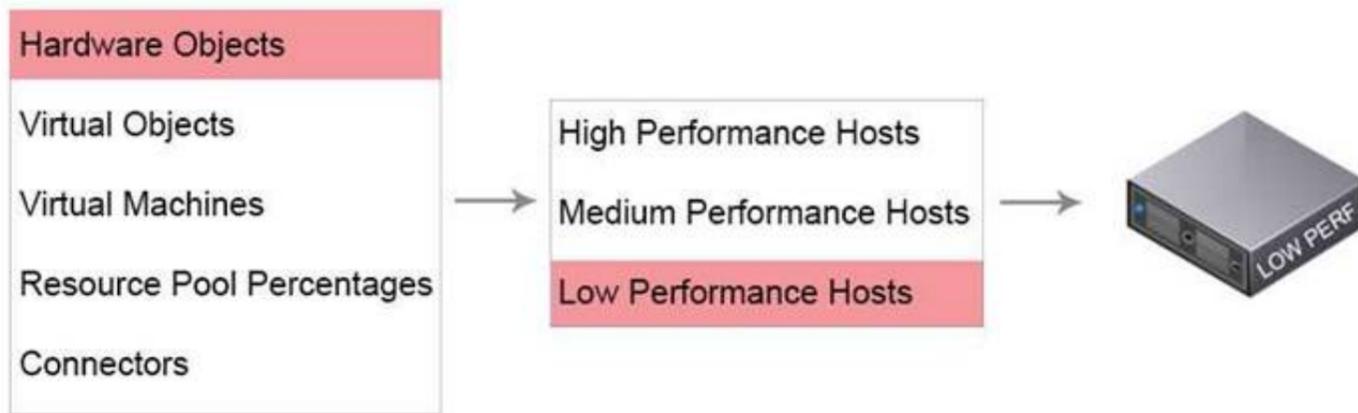
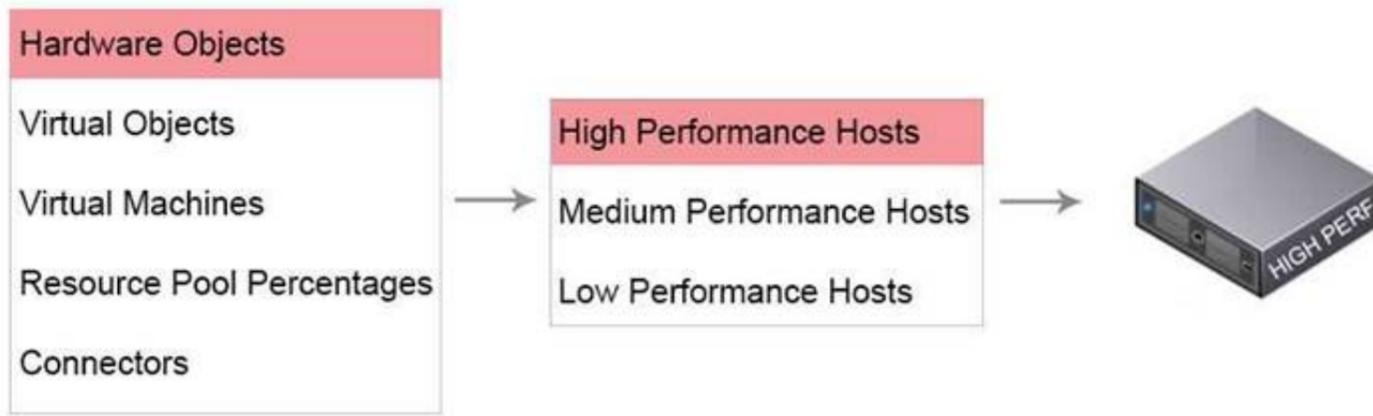
- Gold Tier virtual machines should run only on high performance servers, unless no high performance servers are available. They should also be allocated 75% of overall available resources regardless of placement.
- Silver Tier virtual machines should run only on medium performance servers, unless no 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.

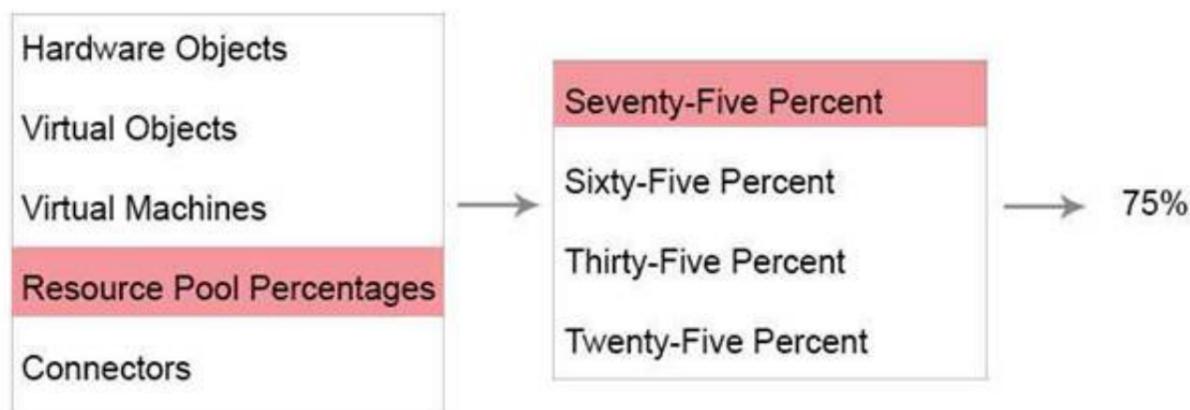
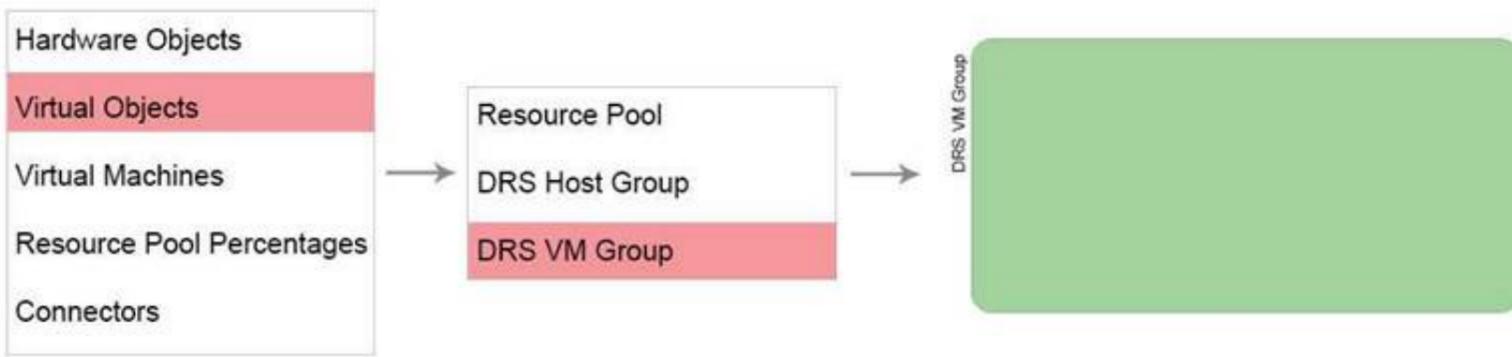
Design Requirements:

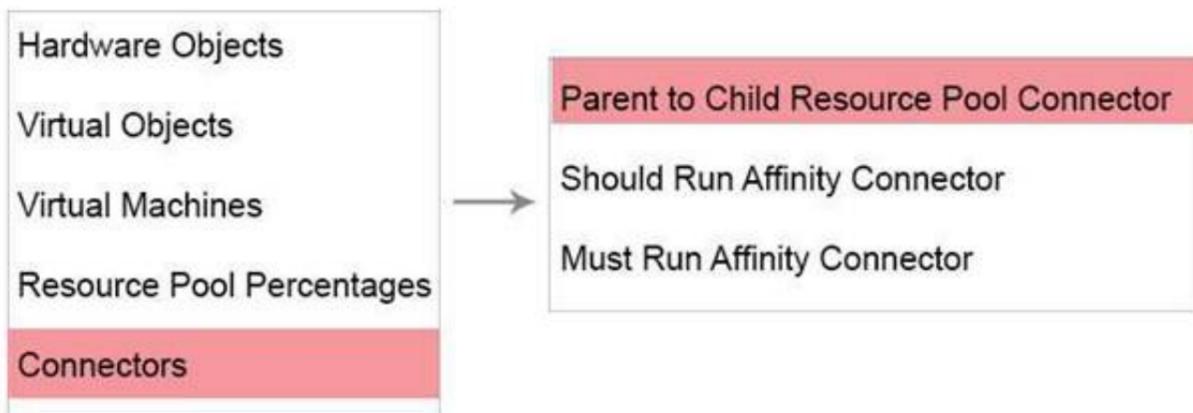
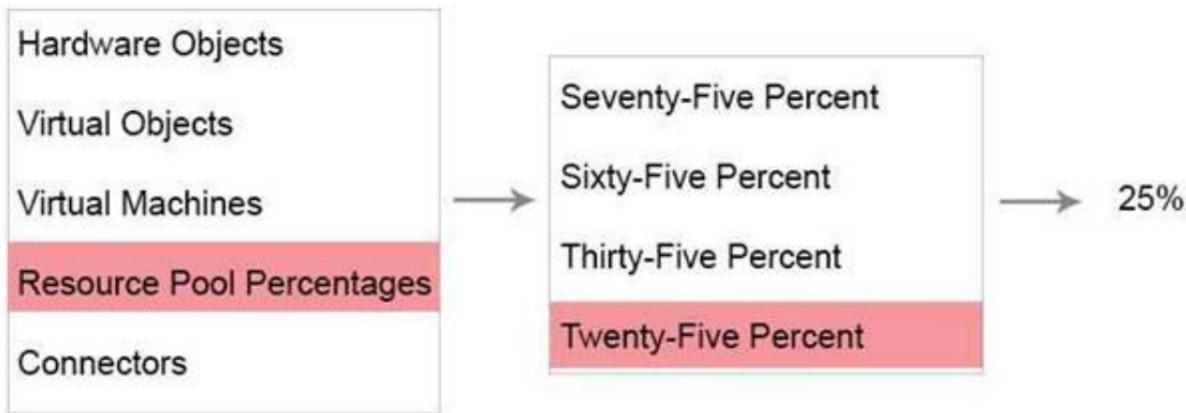
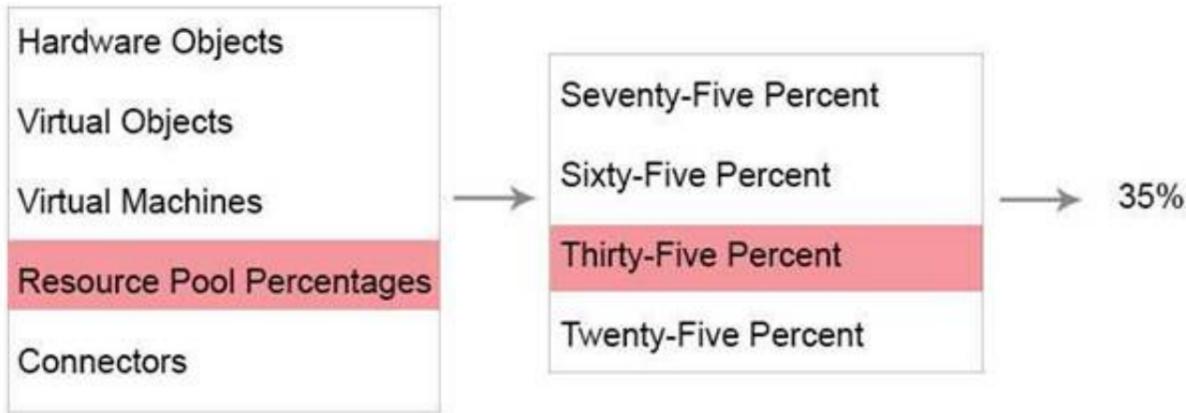
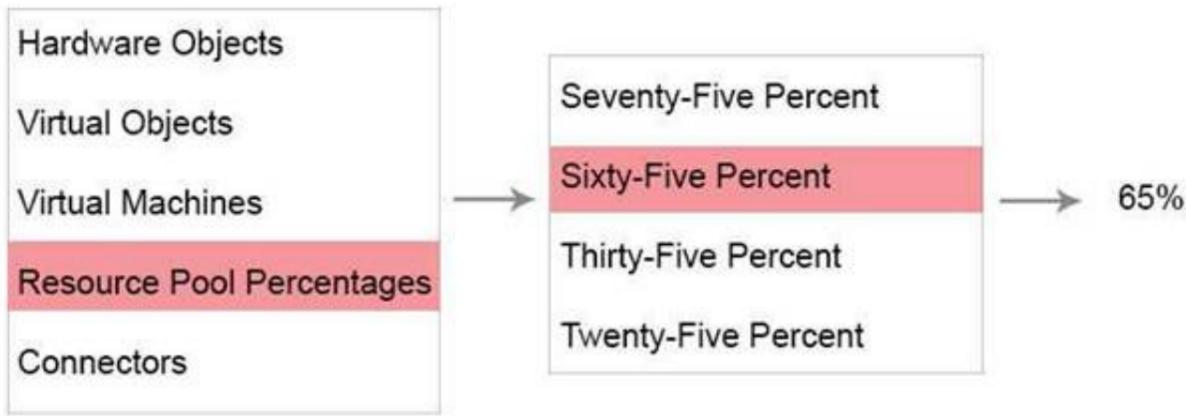
Create a logical design that shows resource allocation and cluster policies needed to meet the customer’s requirements. The design should include:

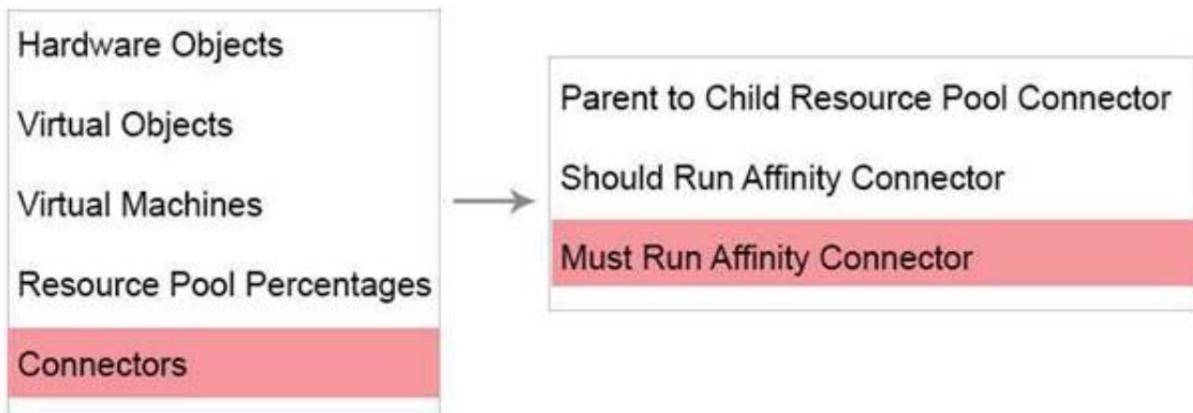
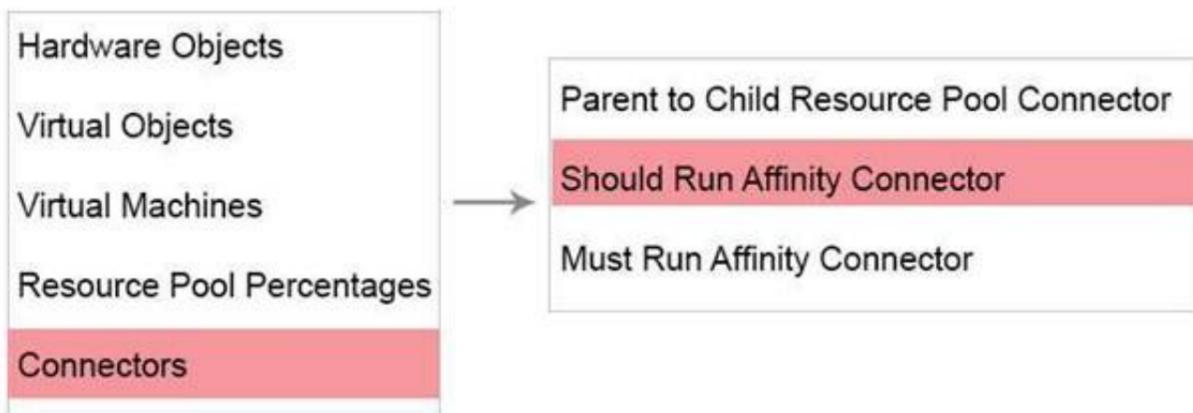
- All required server(s)
- All required resource(s)

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.





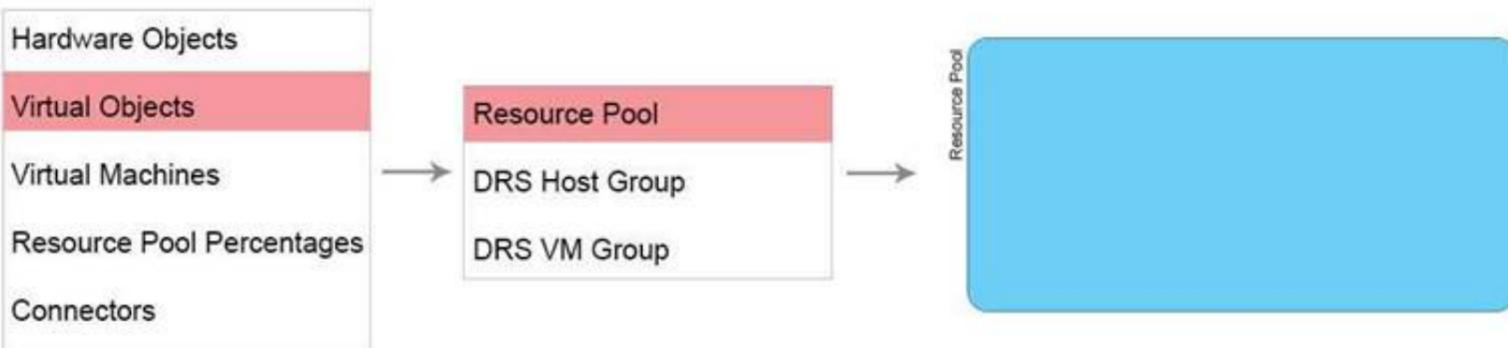


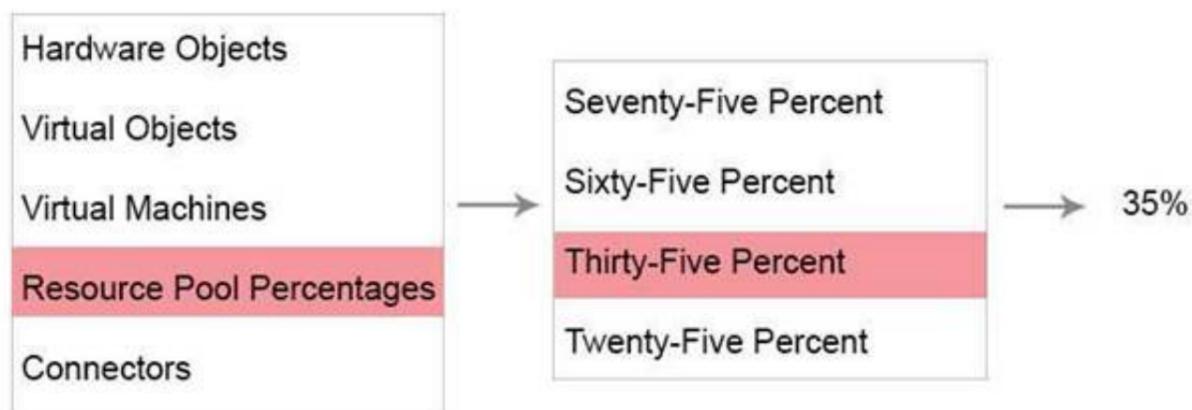
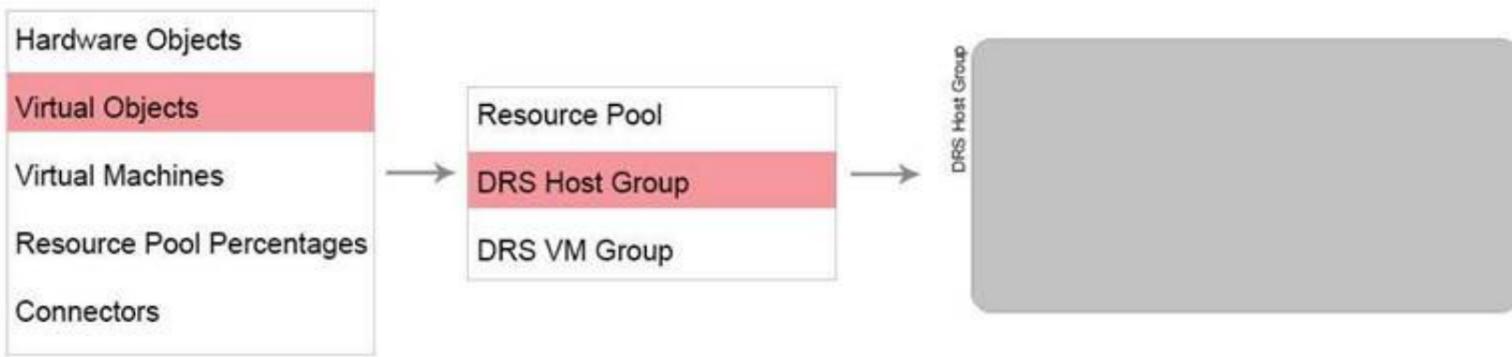


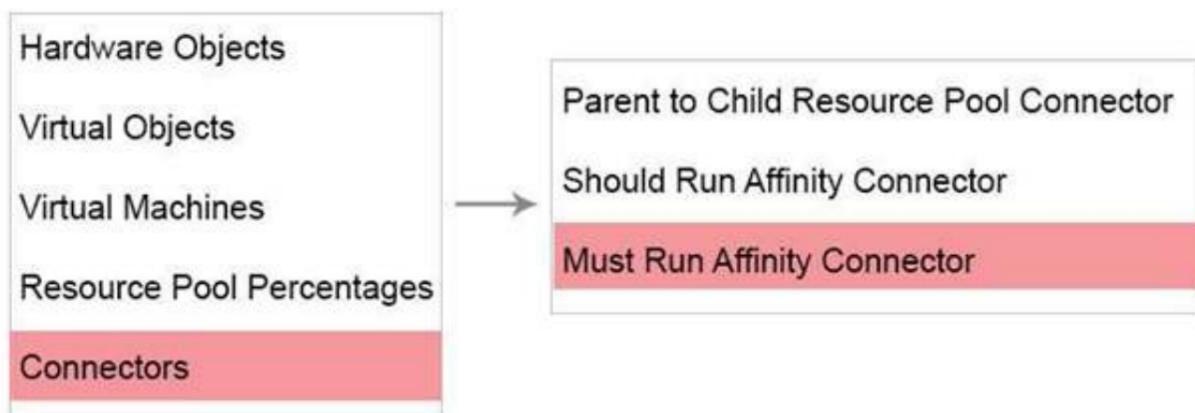
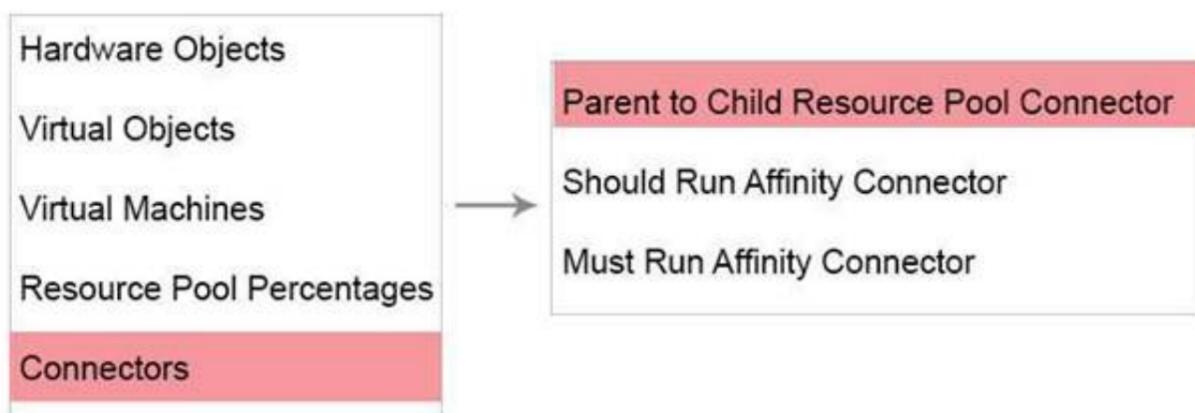
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
 Check below for answer solution







NEW QUESTION 47

A validation plan is used to do which of the following? (Select all that apply.)

- A. Verify the design
- B. Verify that the system is functional
- C. Verify that the system meets requirements
- D. Meet current best practices

Answer: ABC

NEW QUESTION 51

A customer has these requirements for storage:

- Protocol used must have a file based access.
- Protocol used must have built in native multipathing.
- protocol used must support authentication.

To meet these requirements, which protocol should be used for storage?

- A. NFS v3
- B. NFS v4.1
- C. FCoE
- D. iSCSI

Answer: B

NEW QUESTION 52

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 53

The ability to live-migrate all virtual machines between two clusters is a requirement in the customer's design. Which two clusters and EVC configurations will accomplish this? (Choose two)

- A. Cluster 1 • ESXi 6.0 • Intel Skylake CPUs • EVC Enabled: AMD Opteron™ "Steamroller" Generation Cluster 2 • ESXi 6.5 • AMD Steamroller CPUs • EVC Enabled: AMD Opteron™ "Steamroller" Generation

- B. Cluster 1• ESXi 5.6• Intel® Broadwell CPUs• EVC Disabled Cluster 2• ESXi 6.5• Intel® Broadwell CPUs• EVC Disabled
- C. Cluster 1• ESXi 5.5• AMD Piledriver CPUs• EVC Enabled: AMD Opteron™ "Piledriver" Generation Cluster 2• ESXi 6.5• AMD Steamroller CPUs• EVC Enabled: AMD Opteron™ "Piledriver" Generation
- D. Cluster 1• ESXi 6.5• Intel Broadwell CPUs• EVC Enabled: Intel® "Broadwell" Generation Cluster 2• ESXi 6.5• Intel Sandy Bridge CPUs• EVC Enabled: Intel® "Sandy Bridge" Generation

Answer: BC

NEW QUESTION 57

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

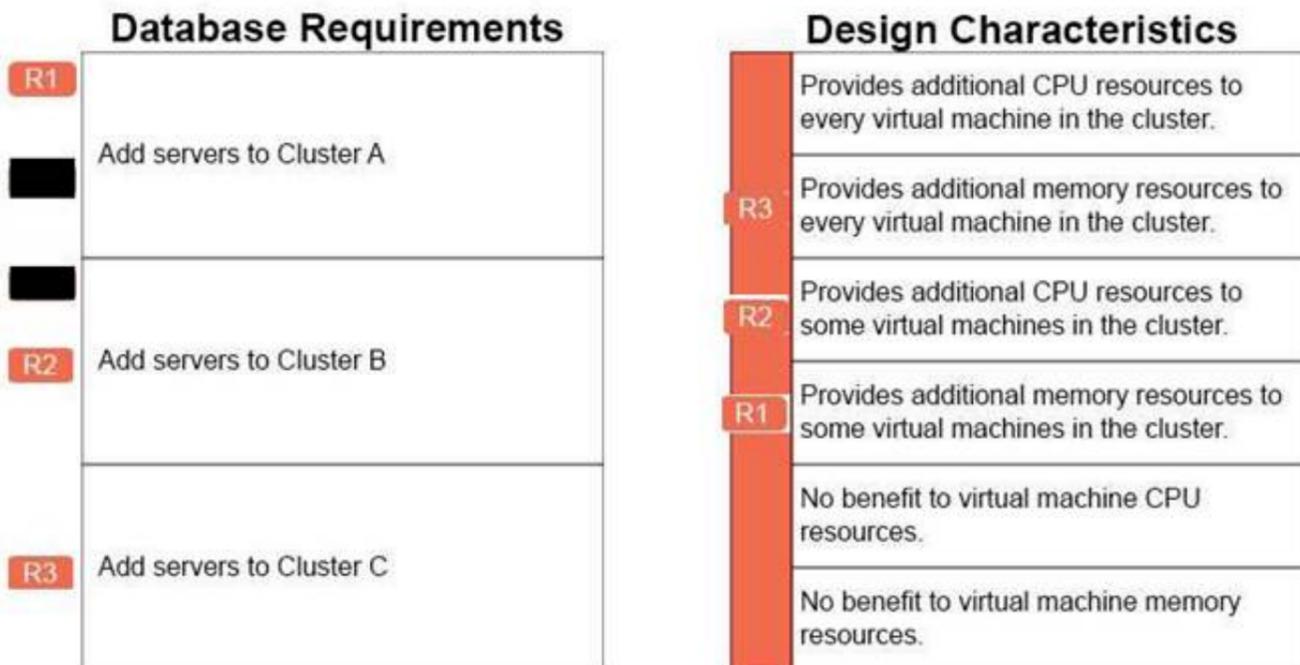
Match the Action on the left by dragging the red buttons (A1-A3) over the text of the corresponding Effect. NOTE: Actions taken might have more than one Effect on the cluster design.

Database Requirements	Design Characteristics
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> R1 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Add servers to Cluster A </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> R2 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Add servers to Cluster B </div> <div style="border: 1px solid black; padding: 5px;"> R3 </div> <div style="border: 1px solid black; padding: 5px;"> Add servers to Cluster C </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Provides additional CPU resources to every virtual machine in the cluster. </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Provides additional memory resources to every virtual machine in the cluster. </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Provides additional CPU resources to some virtual machines in the cluster. </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Provides additional memory resources to some virtual machines in the cluster. </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> No benefit to virtual machine CPU resources. </div> <div style="border: 1px solid black; padding: 5px;"> No benefit to virtual machine memory resources. </div>

- A. Mastered
- B. Not Mastered

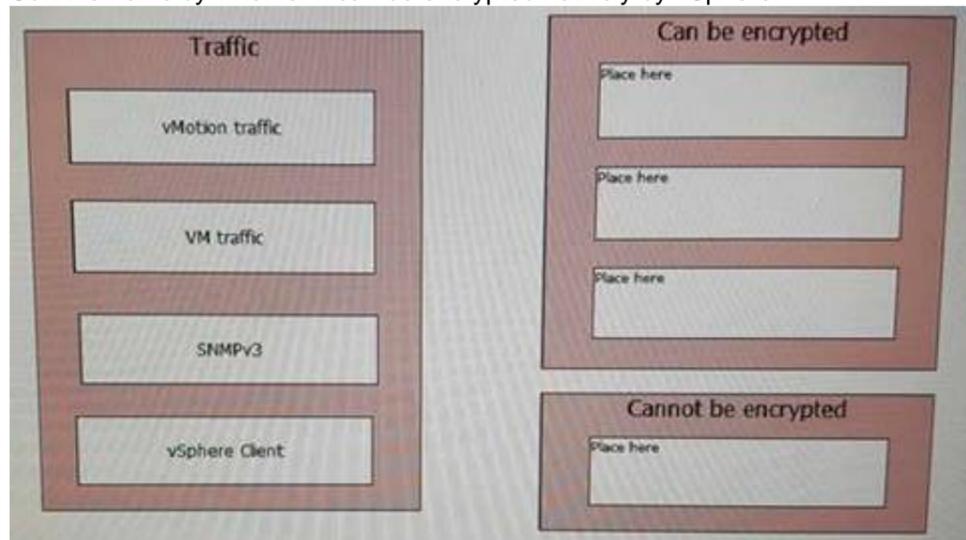
Answer: A

Explanation:



NEW QUESTION 62

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

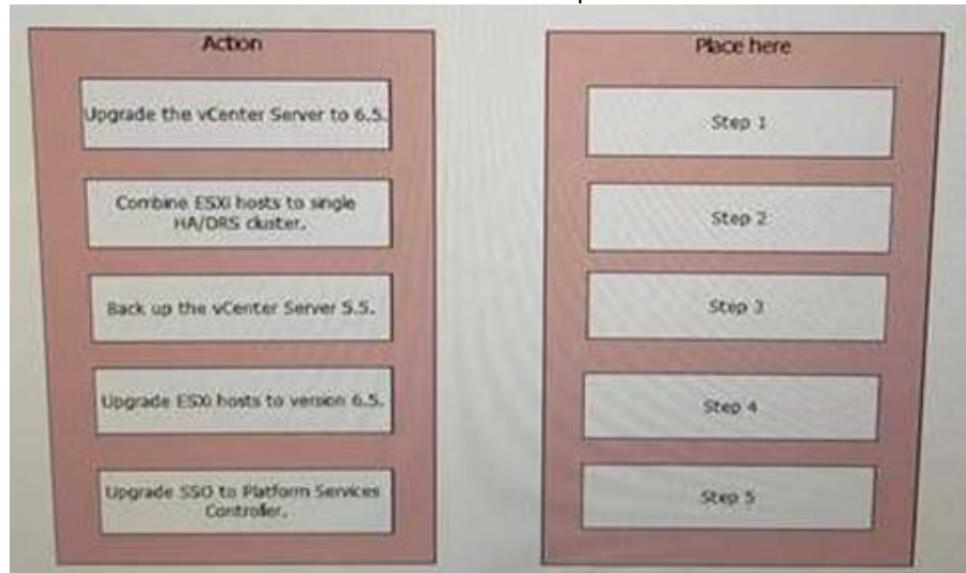
vmotion--> it is supported snmpv3 --> Natively supports message integrity, auth and encryption vSphere client --> Using IPsec for IPv6

NEW QUESTION 65

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.



- A. Mastered
- B. Not Mastered

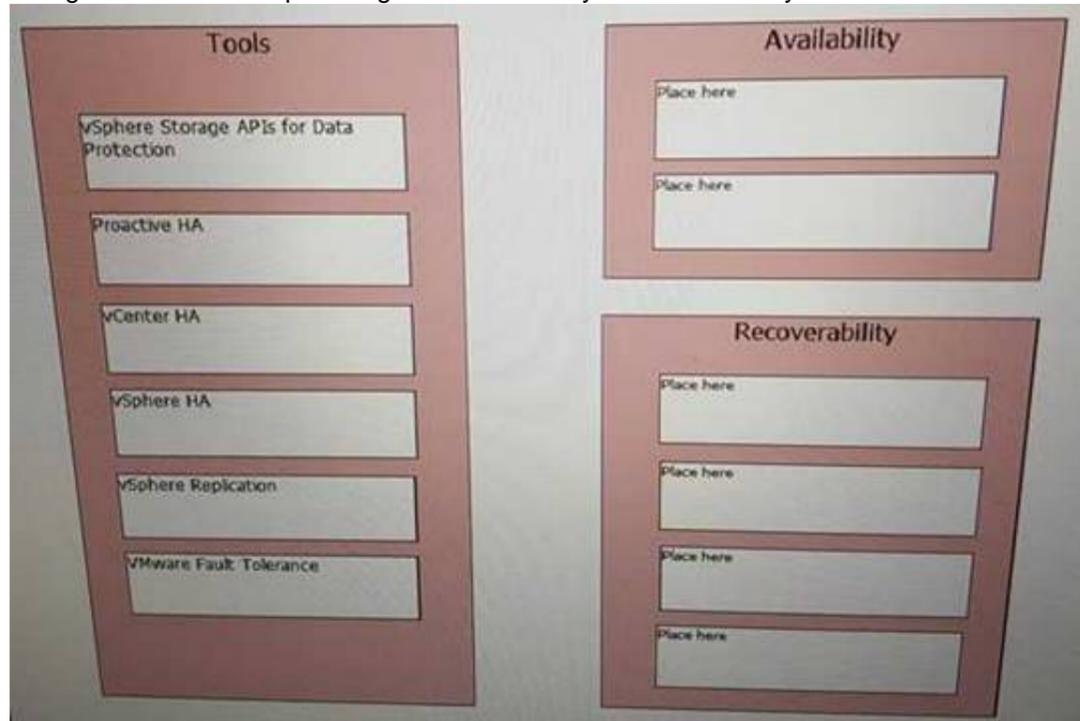
Answer: A

Explanation:

1 - Backup vCenter 5.52- Upgrade the SSO to PSC3-Upgrade vCenter to 6.54- Upgrade ESXi hosts to version 6.55- Combine ESXi hosts to single...

NEW QUESTION 67

Categorize the tools as providing either Availability or Recoverability.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Availability FTH Recoverability Proactive HA vCenter HA vSphere Replication VADP

NEW QUESTION 69

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 73

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.

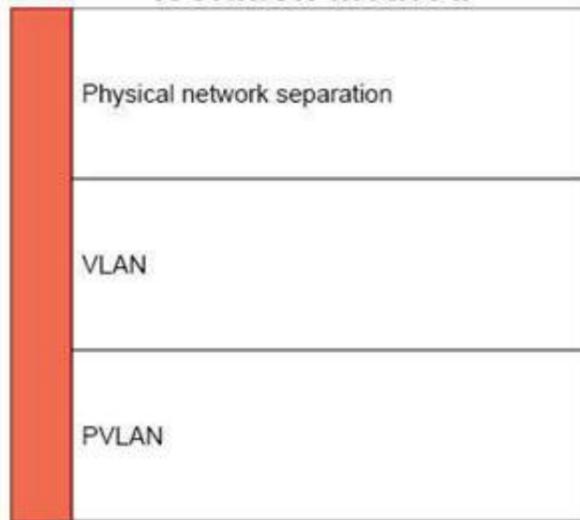
Match each Design Requirement on the left by dragging the red Requirement buttons (R1-R5) over the text of the appropriate Isolation Method.

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



- A. Mastered
- B. Not Mastered

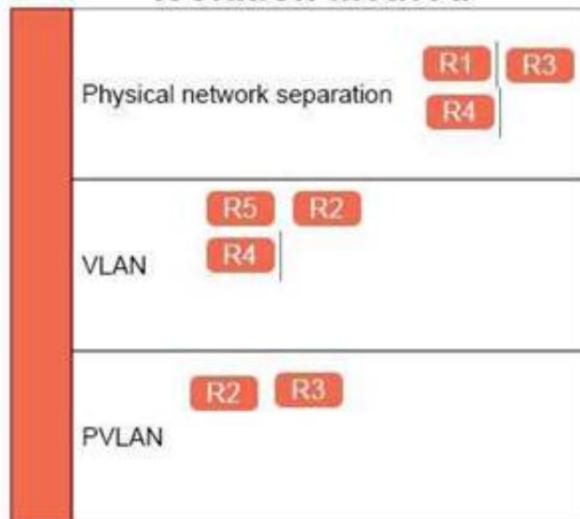
Answer: A

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 75

Customer Requirements:

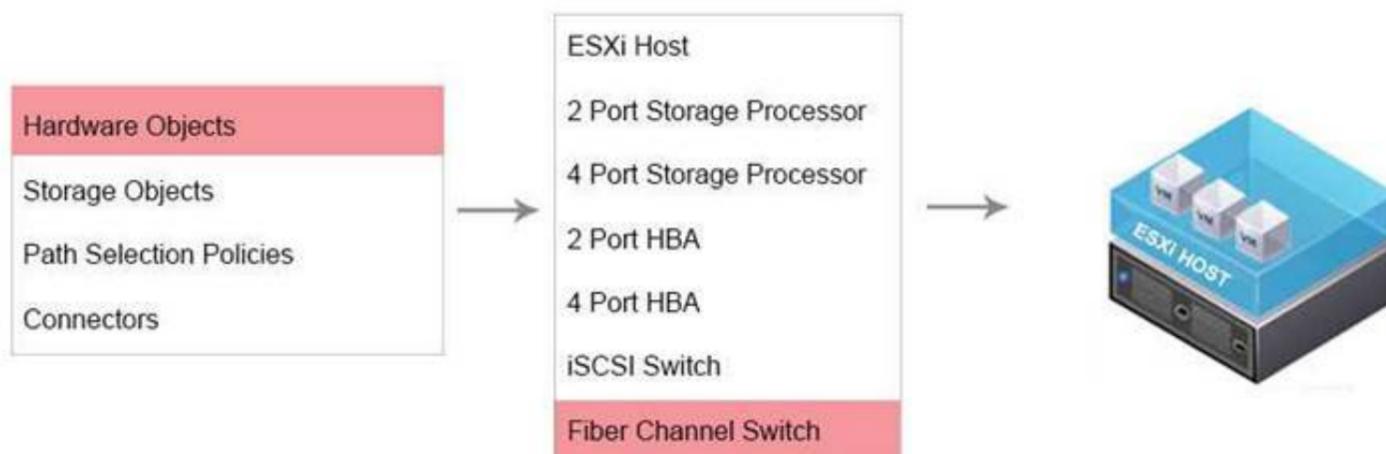
You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has produced two 24 port FC switches, and Asymmetrical Active/Active storage array (2 storage Processors with 4 ports each) and 22 ESXi Hosts with 2 dual port HBAs in each. Due to budgetary constraints,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

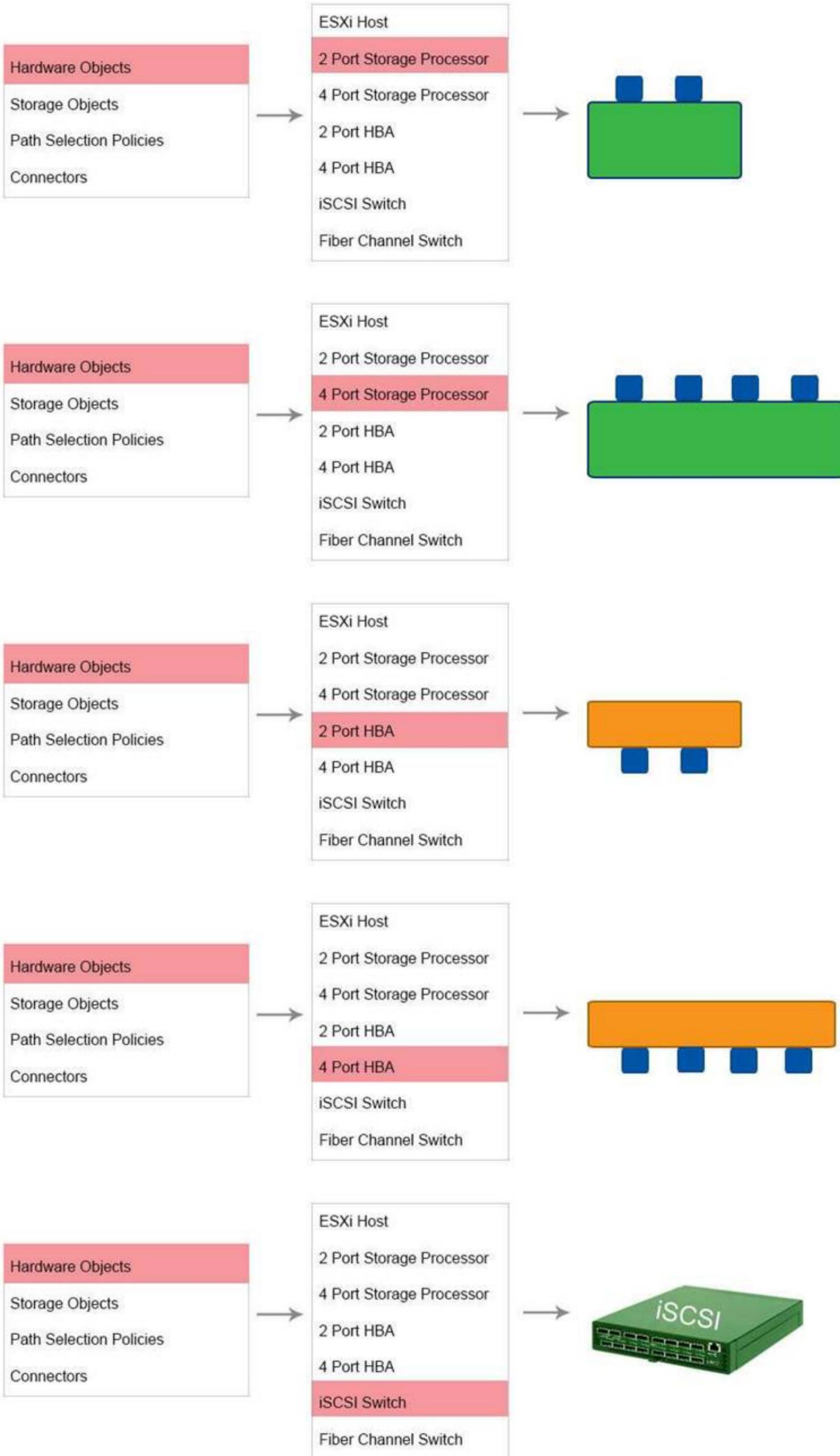
- The existing Fibre Channel (FC) Asymmetrical Active/Active Array and FC switches must be used.
- No single point of failure to any datastore.
- Configuration must provide failover and load balancing.
- The customer requires a solution that will accommodate virtual machines with three different I/O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

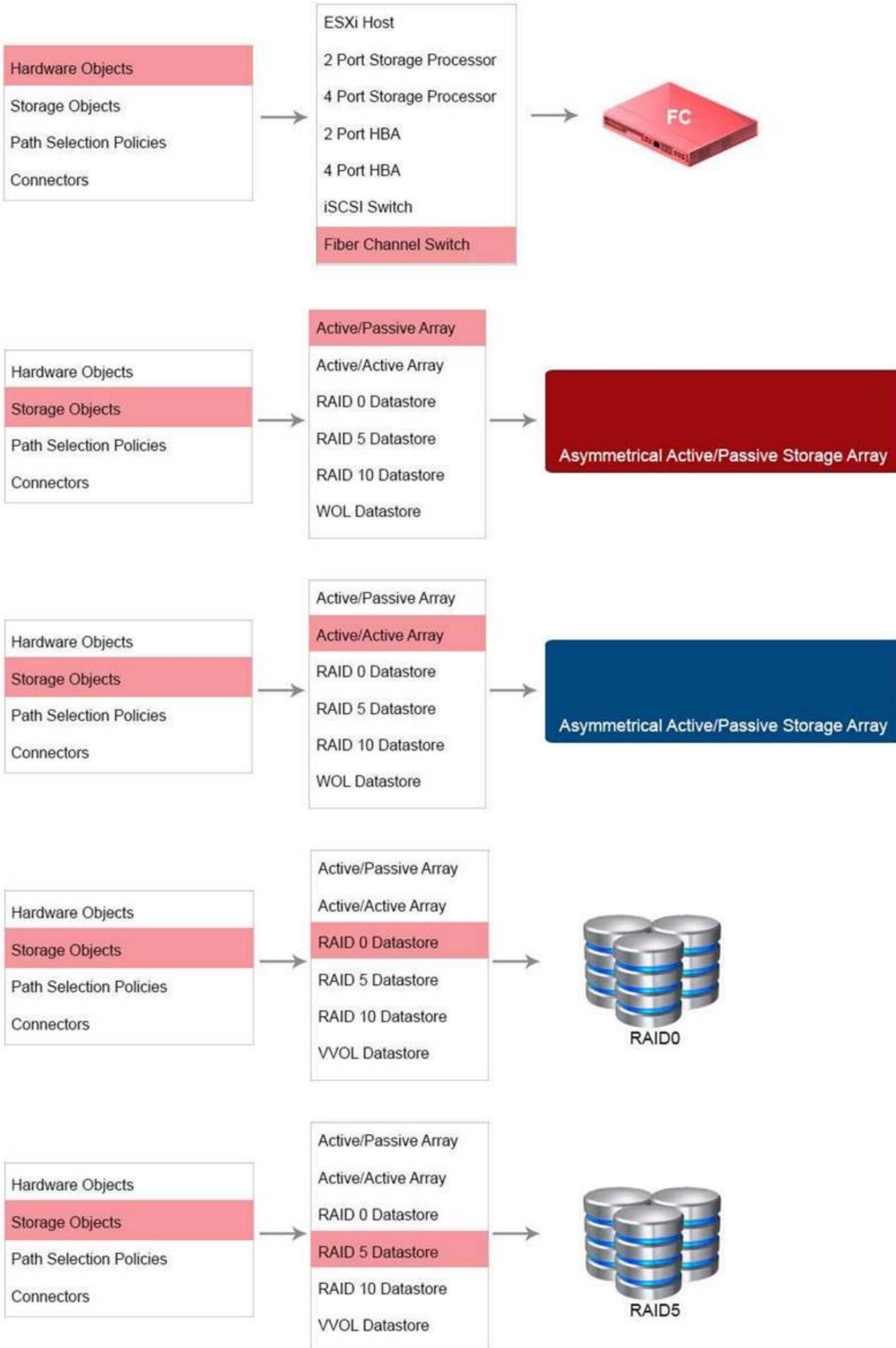
Create a logical design that be applied to each of the ESXi Hosts. The design should meet, but not exceed the customer's requirements and should include:

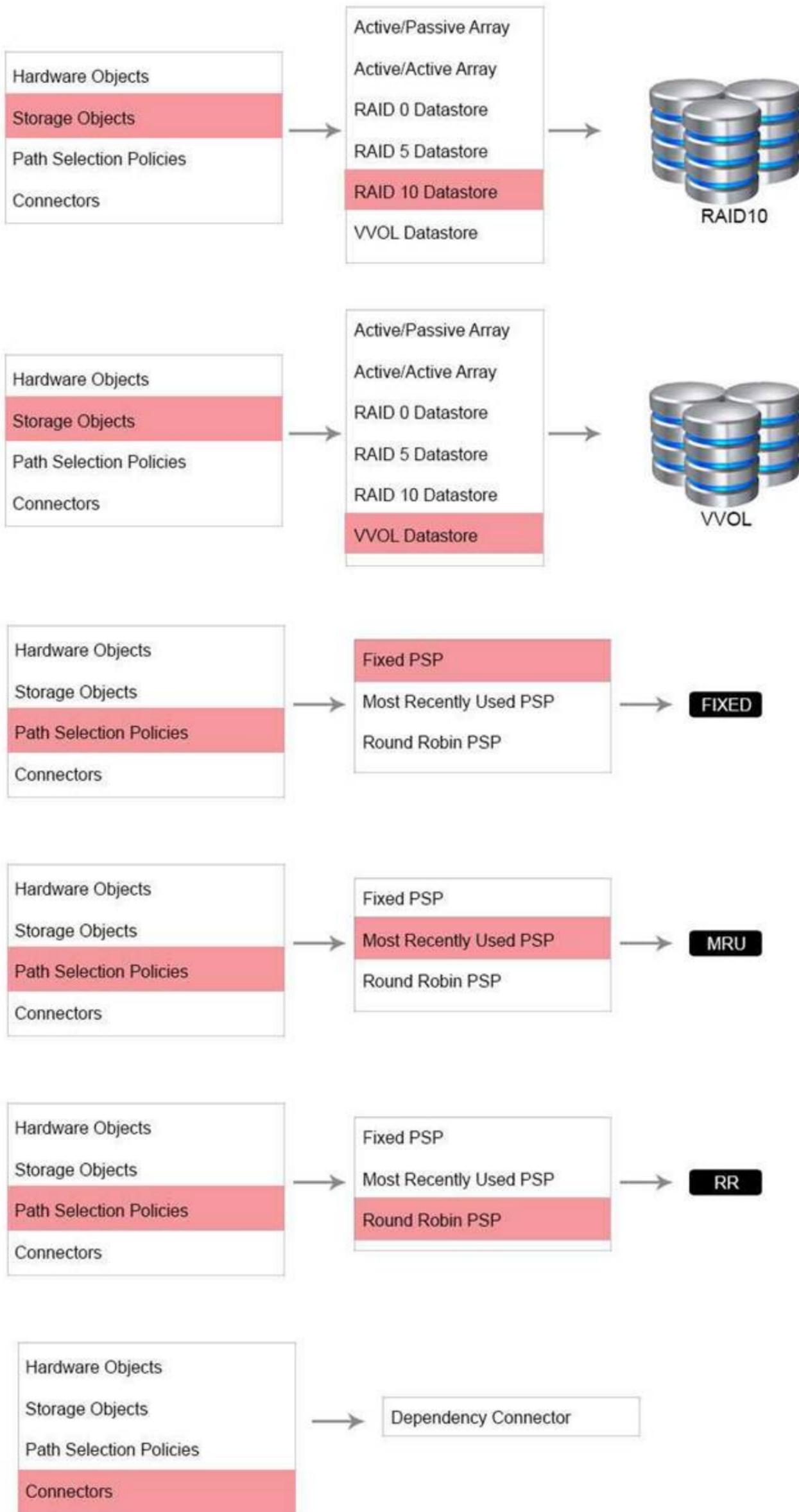
- All required hardware
- All required resources

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.







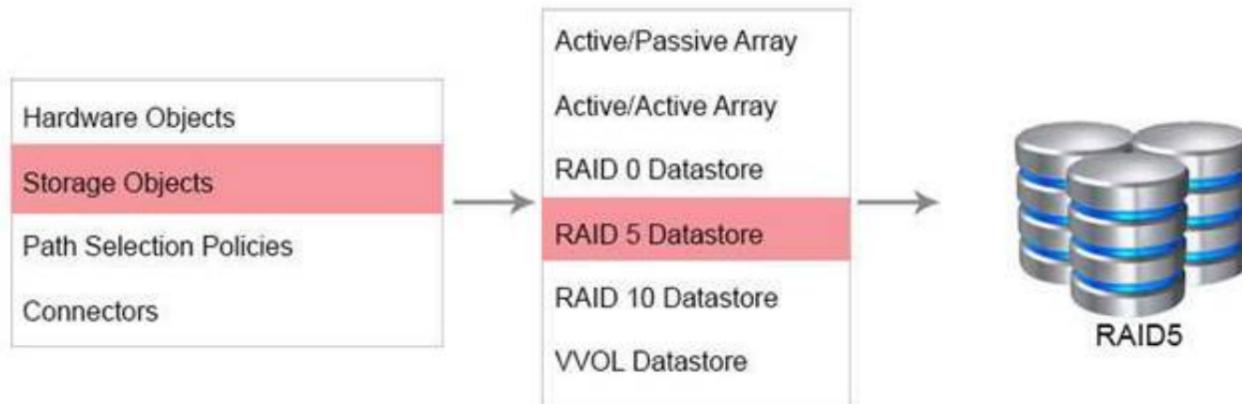
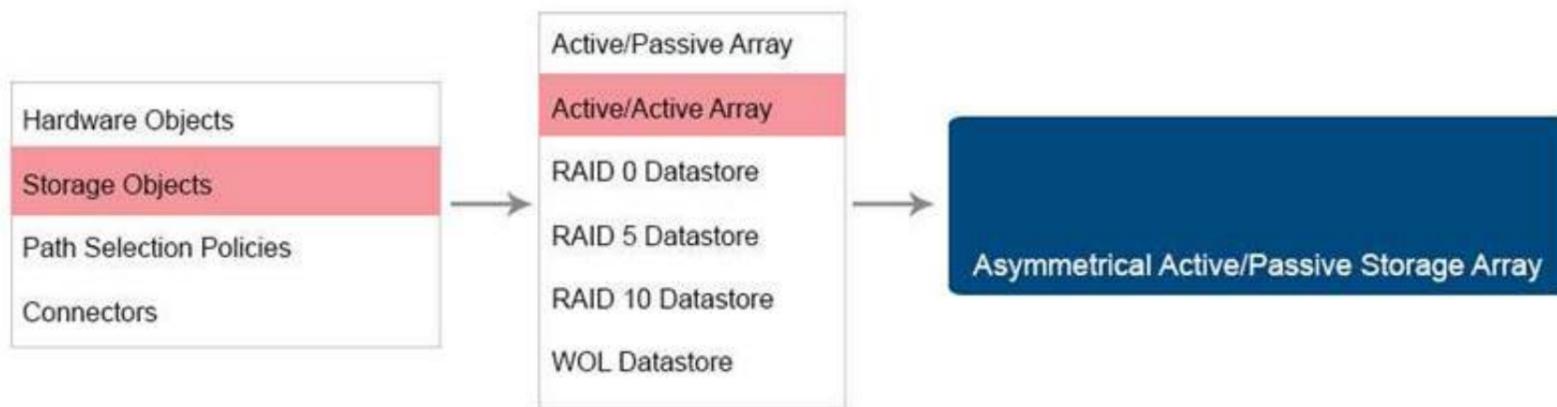
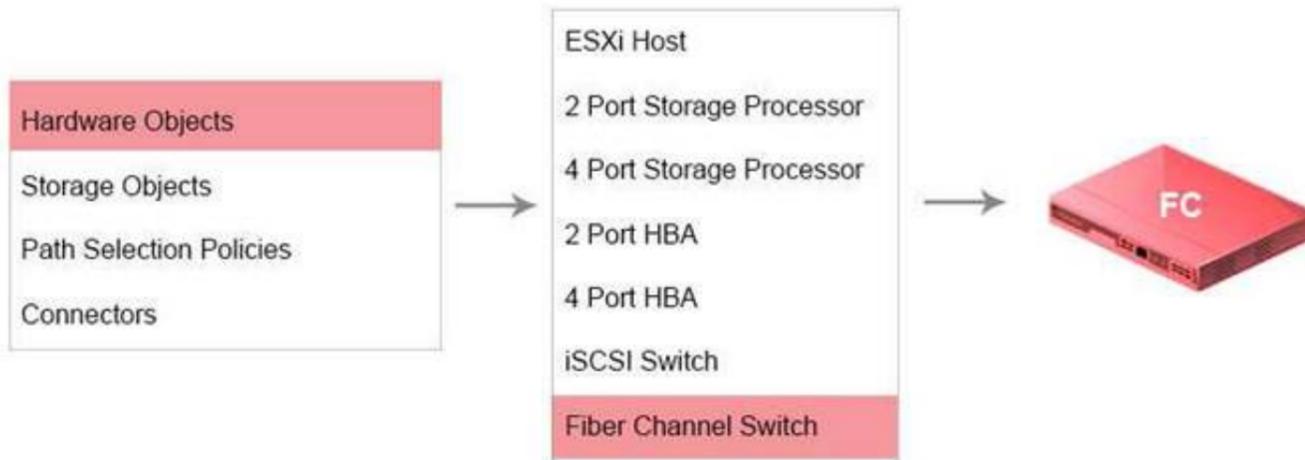
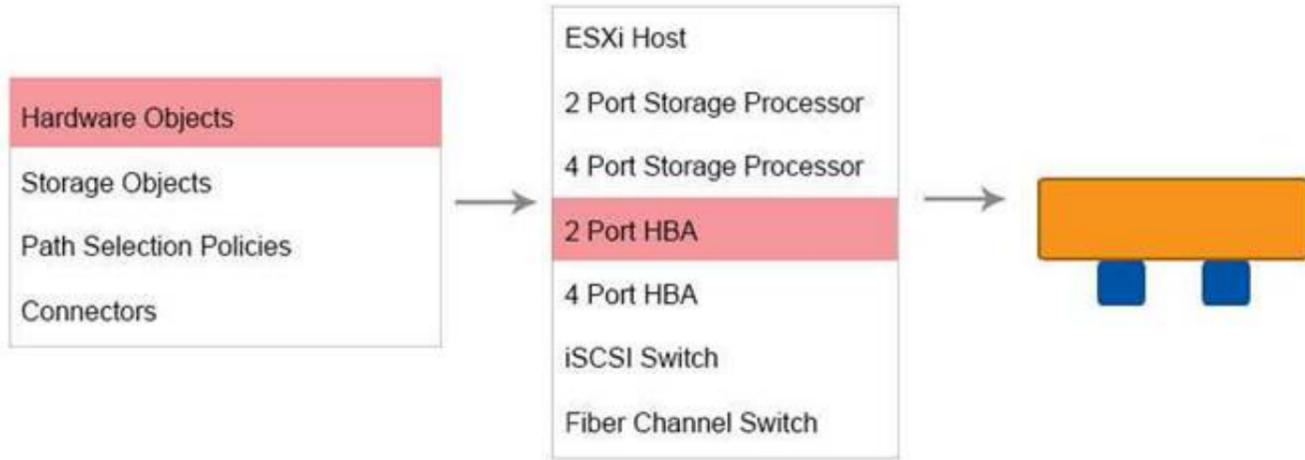
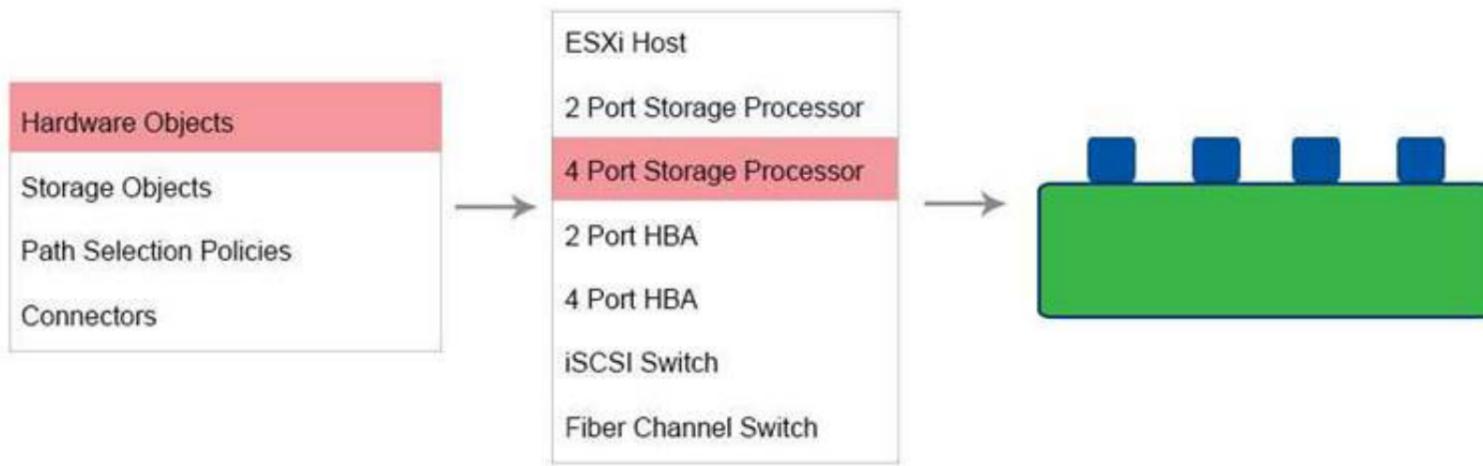


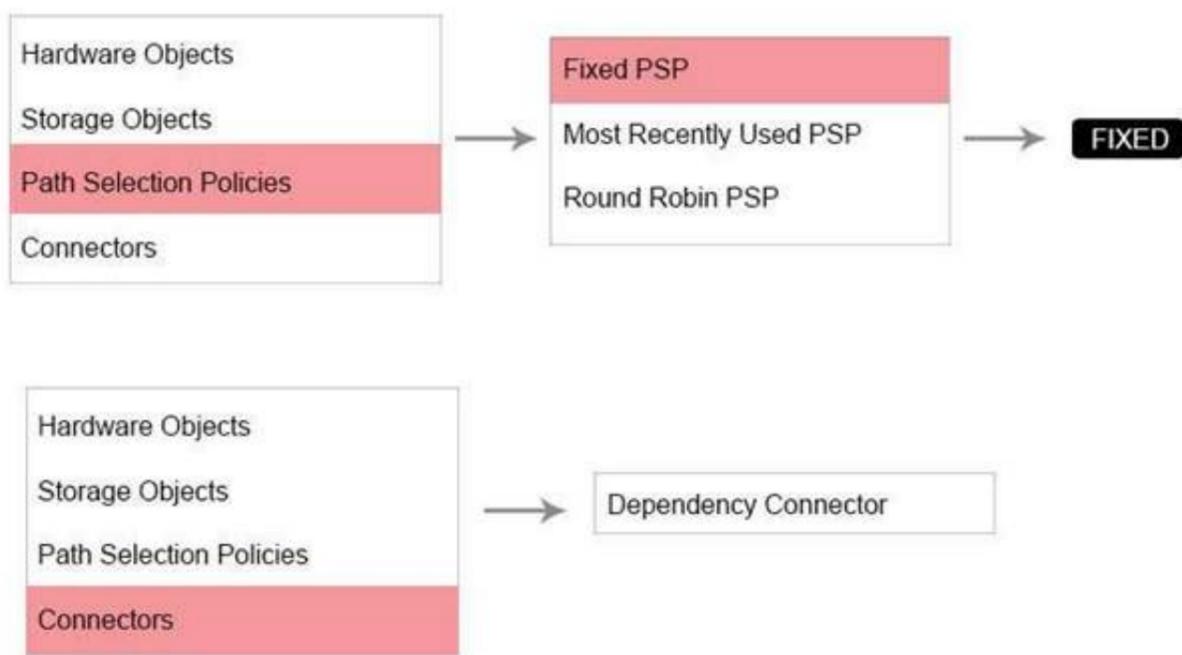
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Check below for answer solution





NEW QUESTION 76

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.)

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

Answer: BD

NEW QUESTION 77

A solution architect has been tasked with designing a new environment for a company's growing needs, and has obtained this information:

- Uptime is critical during regular business hours when 95% of the transactions occur. Application uptime must be 99.9% during those hours.
- In a true Disaster, the business can withstand a day of data loss and half a day of downtime.
- The company is one year into a 5-year contract with the co-lo data center.
- The building that is currently occupied no hanger has any floor space available, but the company has 3 empty racks of space. The co-lo can provide up to 11KVA of power per rack.
- There are current contacts with Dell to provide servers and with Cisco to provide the network components.
- The network team has standardized on an end-to-end 10Gb network.

Based on this information, what are two requirements for the new design? (Choose two.)

- RTO of 24 hours.
- RTO of 12 hours.
- The application must be available 99.9% during business hours.
- 11KVA of power is available per rack.

Answer: BC

NEW QUESTION 78

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.

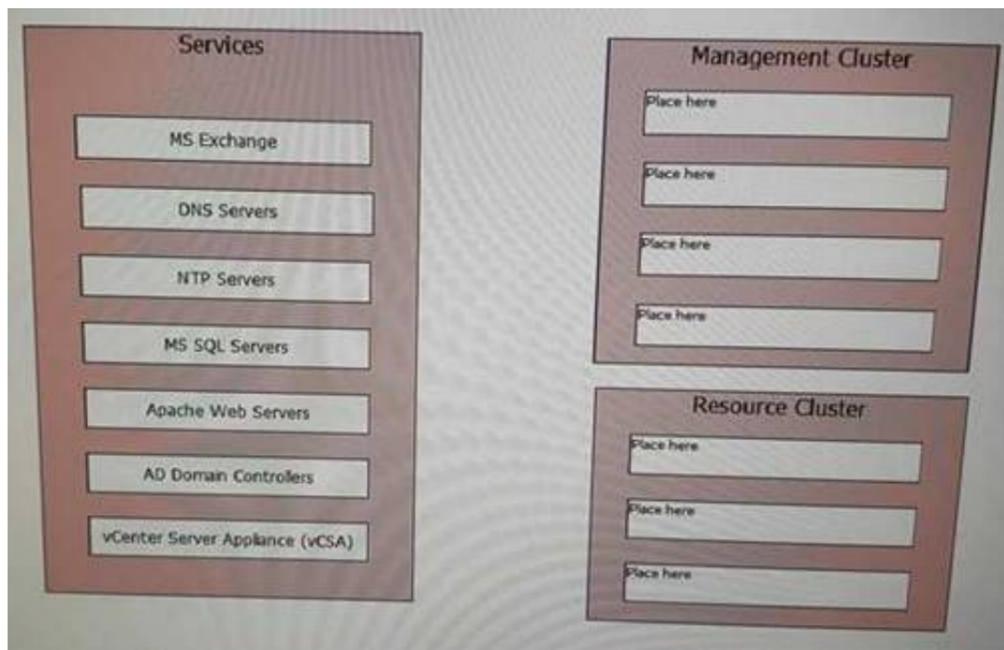
Which three choices can the architect use to keep the traffic separated? (Choose three.)

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

Answer: BCD

NEW QUESTION 82

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 85

A customer has requested a vSphere 6.5 deployment design that utilizes vCenter Server and the use of VMware-recommended best practices for securing vCenter Server.

Which three actions would satisfy these requirements? (Choose three.)

- A. Utilizing vSphere CLI and vSphere SDK for Perl scripts.
- B. Restricting vCenter Server access to only the management network
- C. Assigning the default Administrator role to all administrator users.
- D. Synchronizing time in vCenter Server with a NTP source.
- E. Removing expired and revoked certificates from vCenter Server system.

Answer: BDE

NEW QUESTION 90

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:

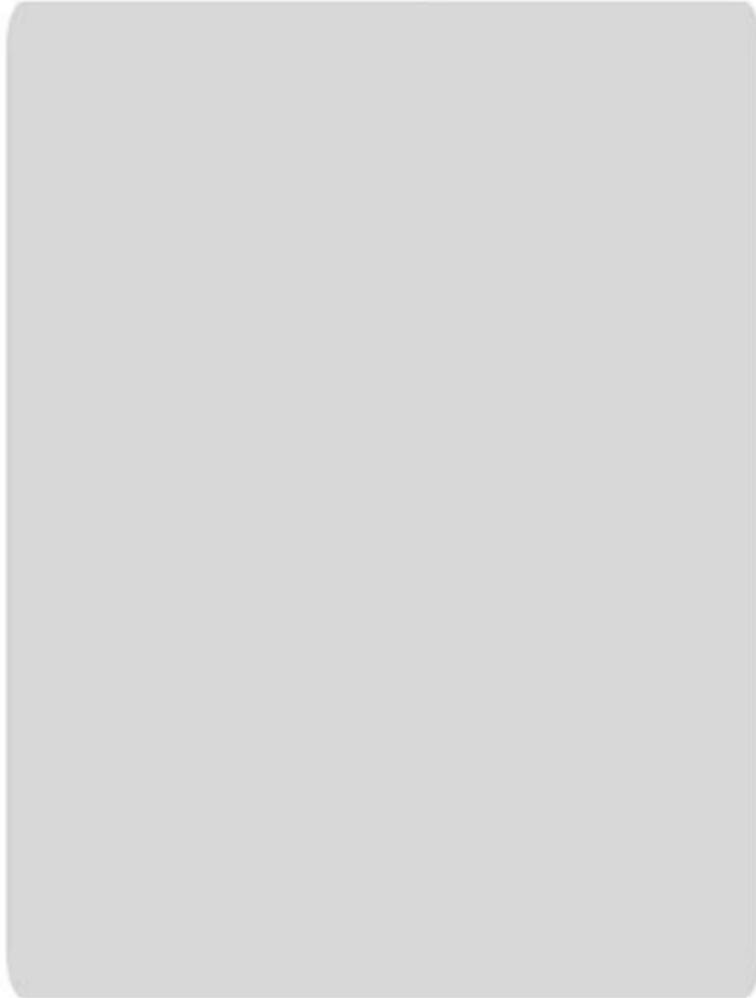
- Database workloads – Gold
- Application workloads – Silver
- Web workloads – Bronze

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

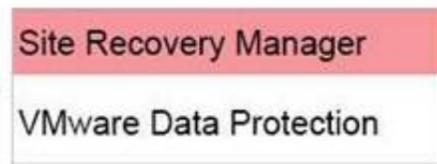
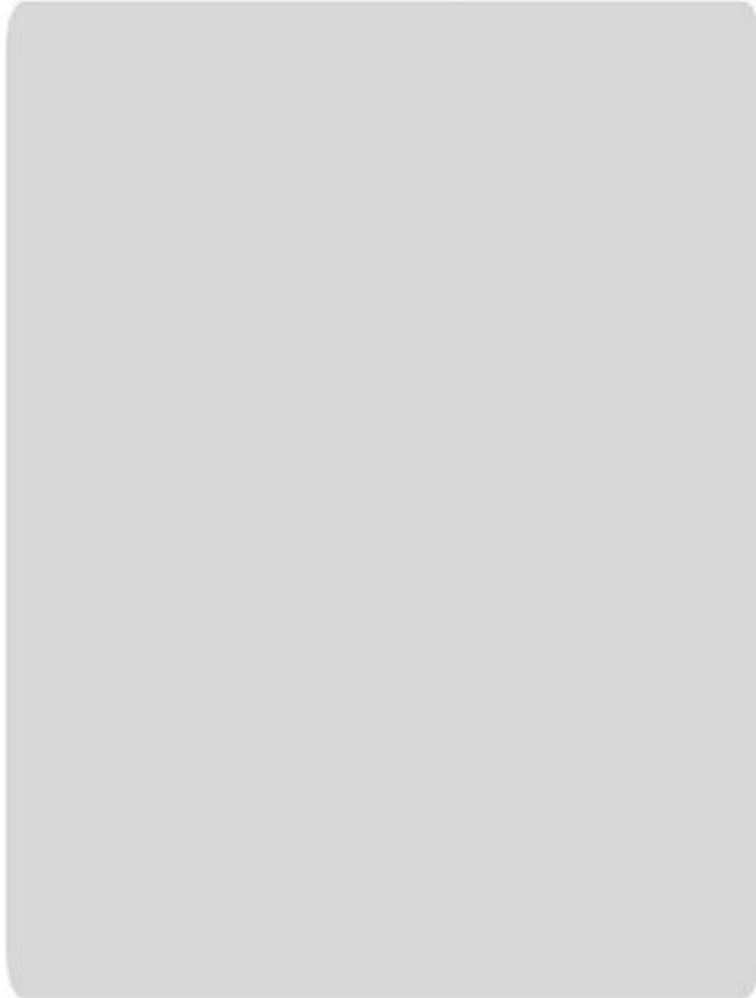
Create a design that incorporates the required elements:

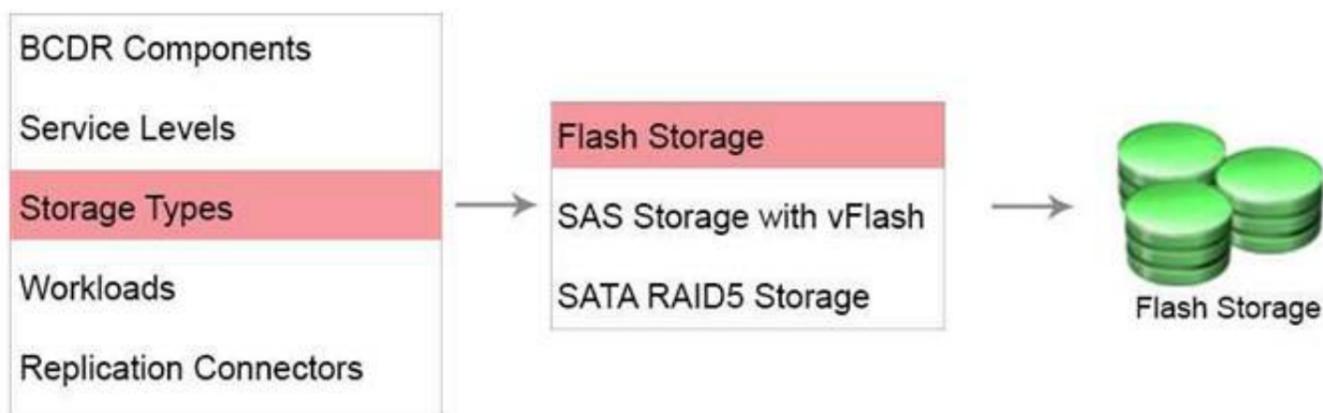
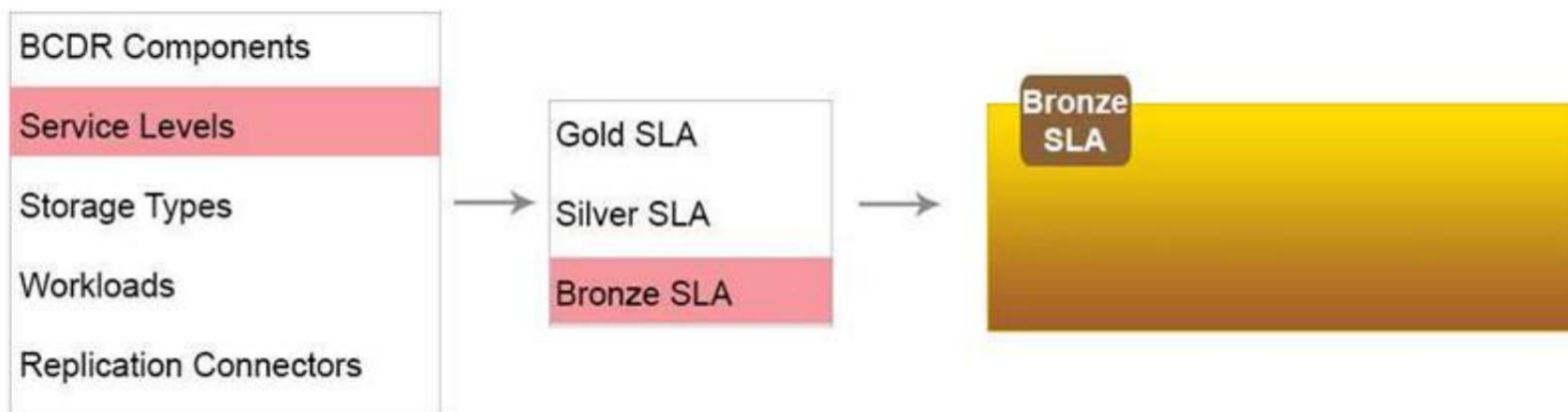
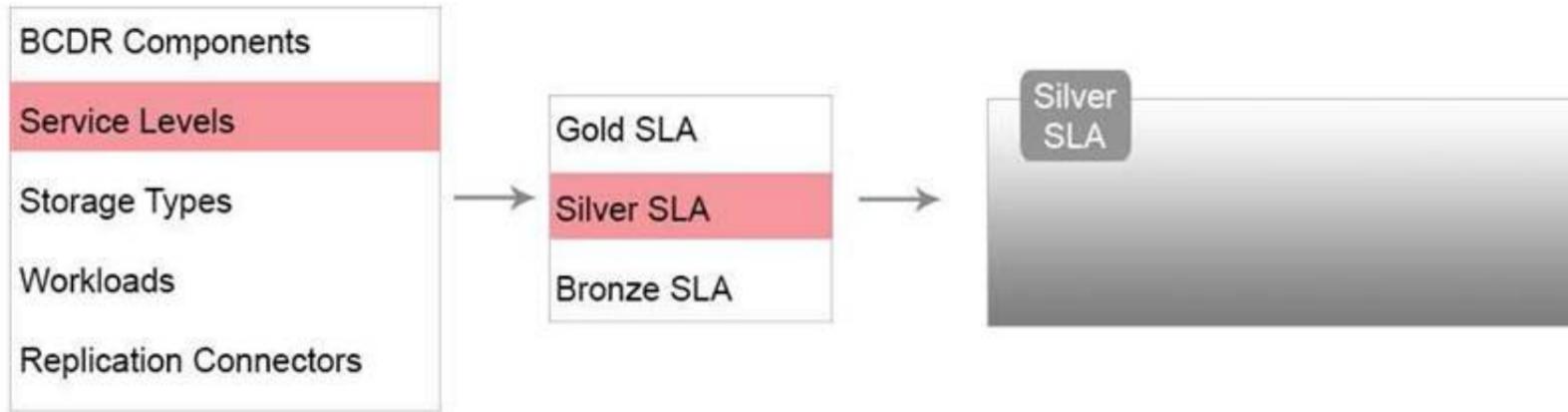
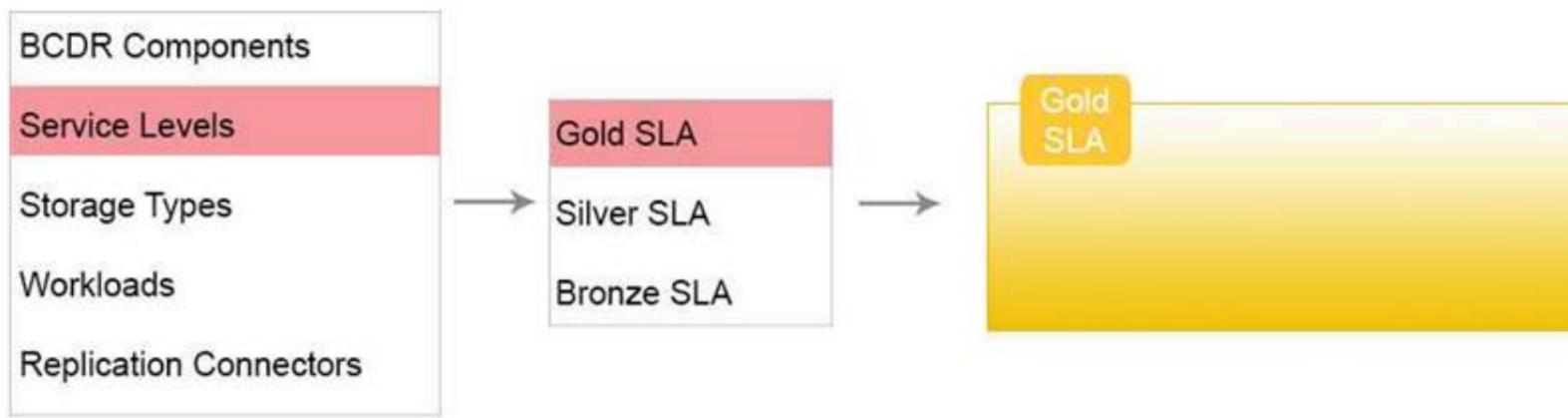
- Place an SLA container for each of the appropriate SLAs into the appropriate sites.
- Place the appropriate storage type(s) for each SLA into the SLA container.
- Place the appropriate workload(s) into the SLA containers.
- Place the appropriate BCDR components into the SLA containers.
- Connect any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

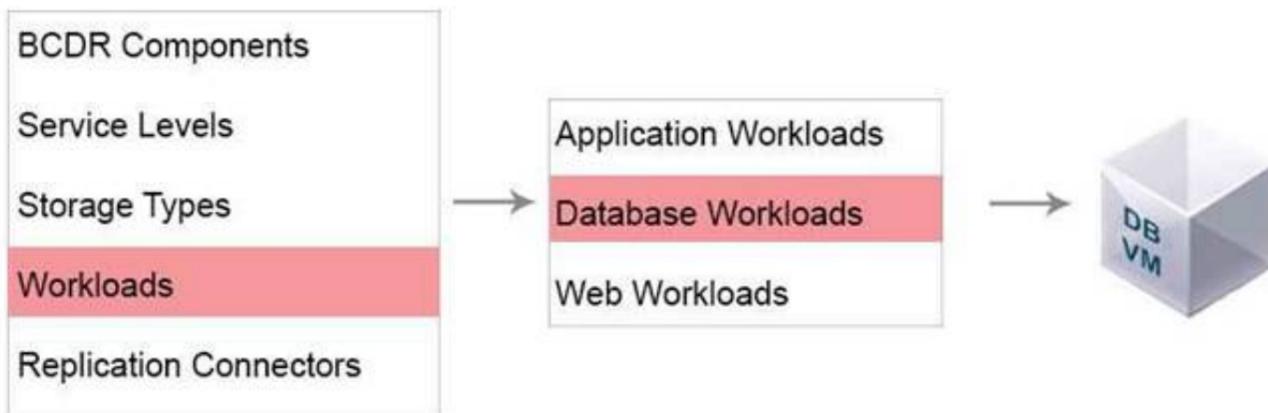
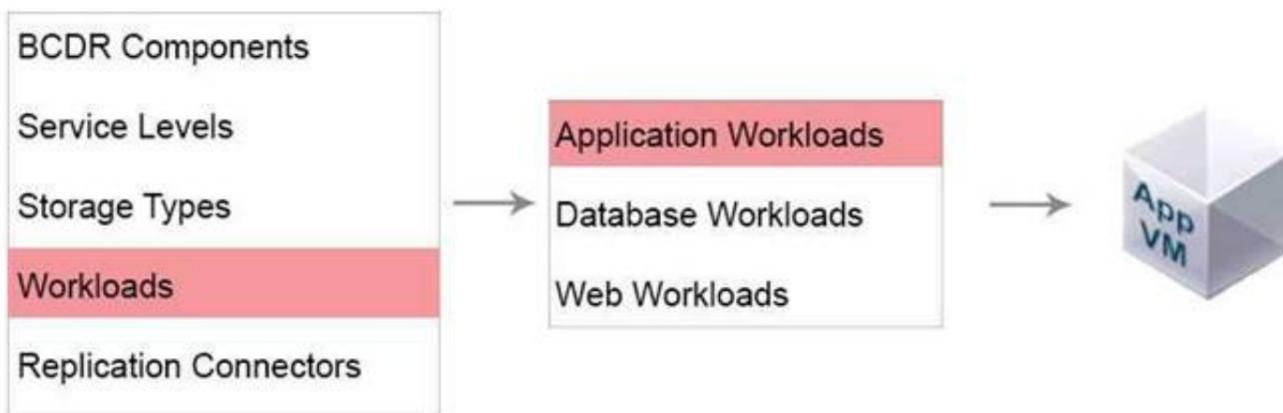
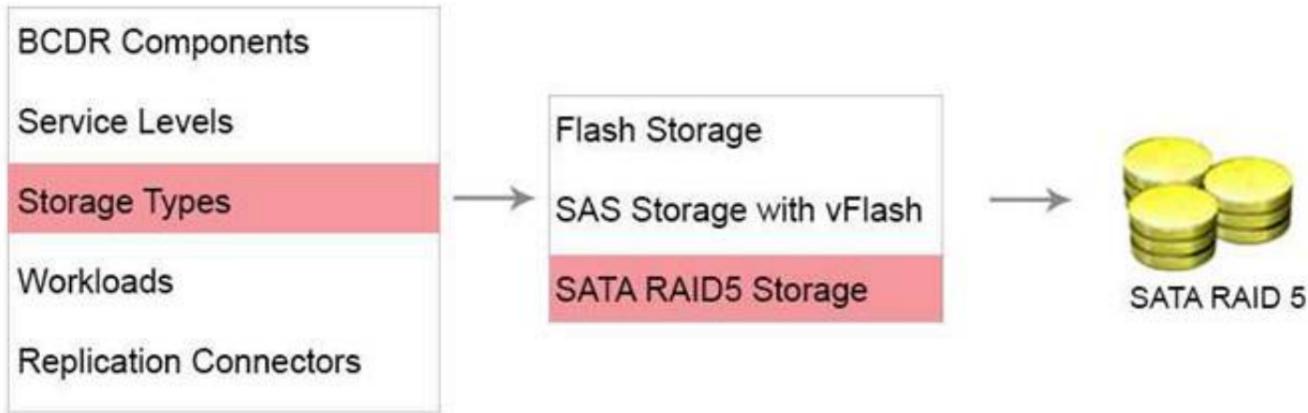
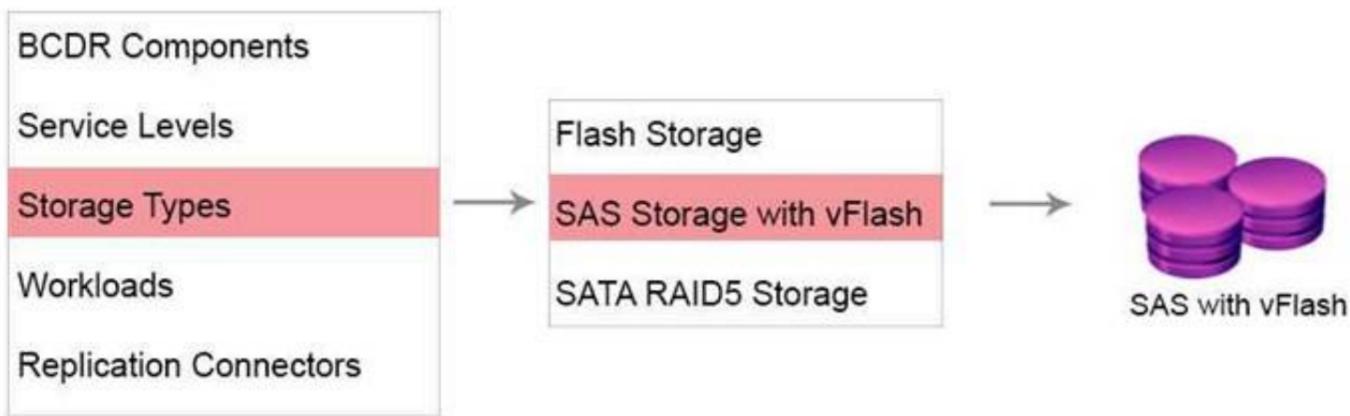
Primary

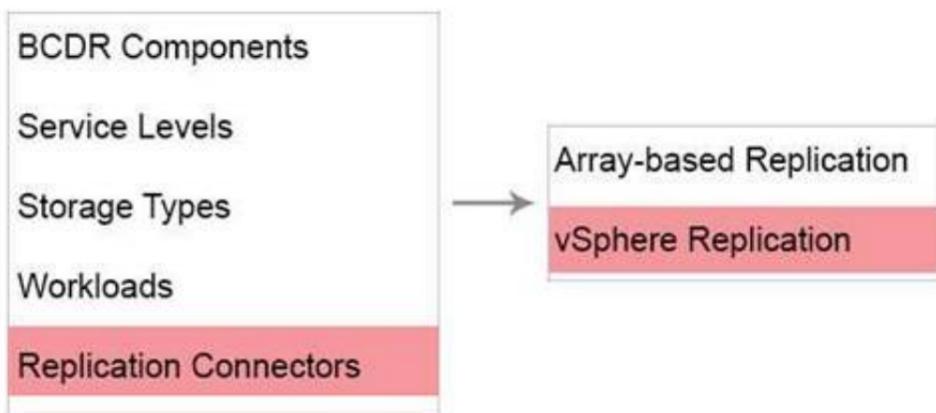
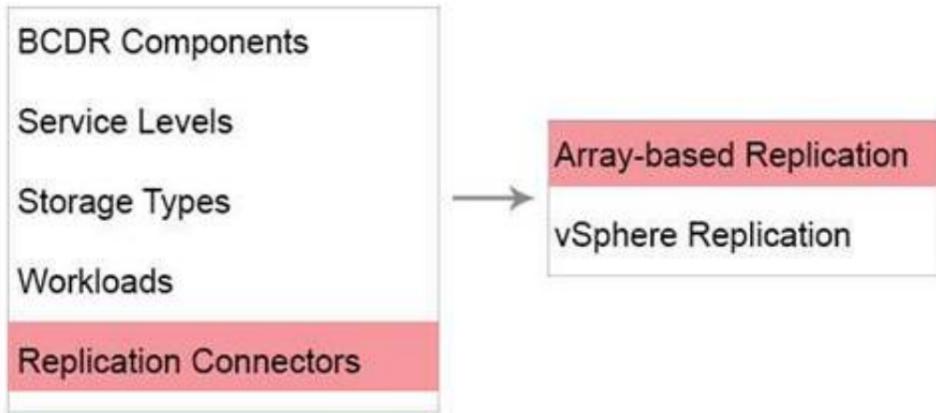
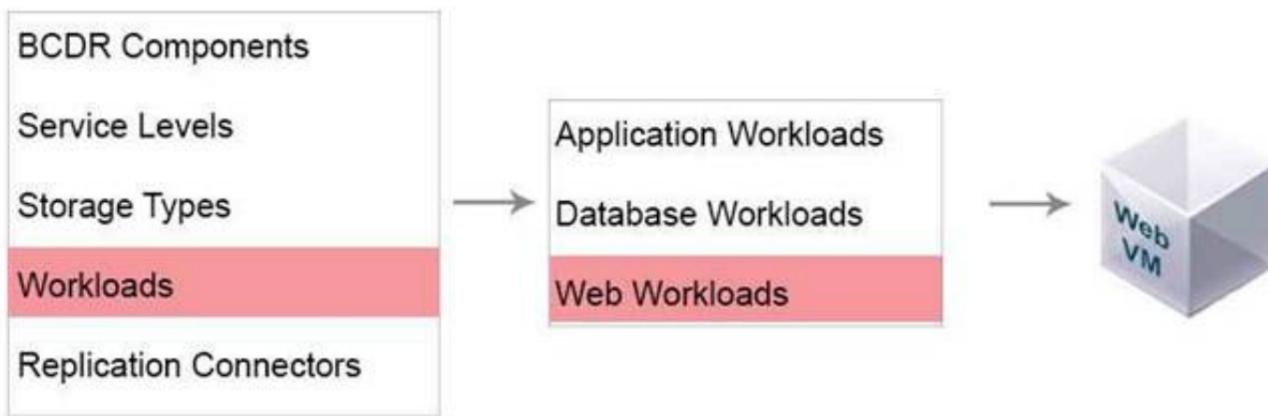


Secondary







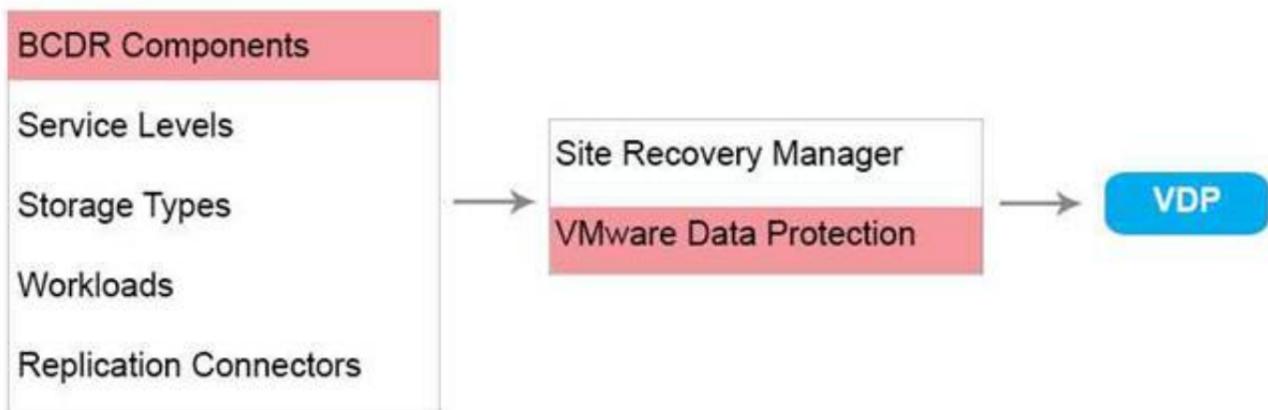


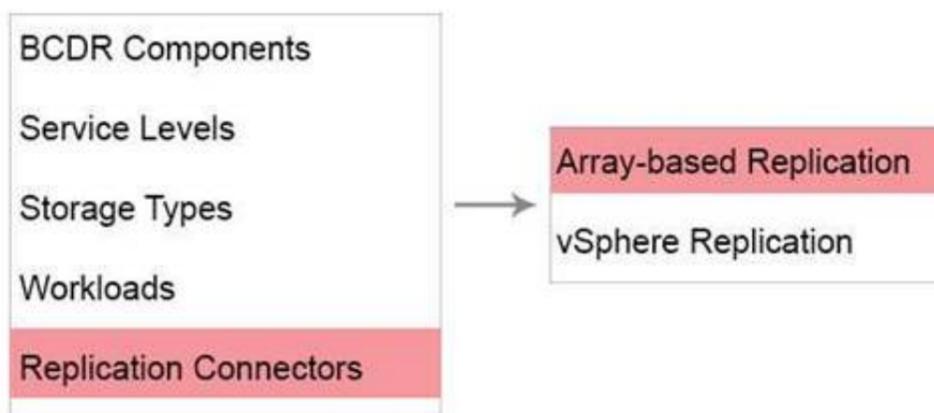
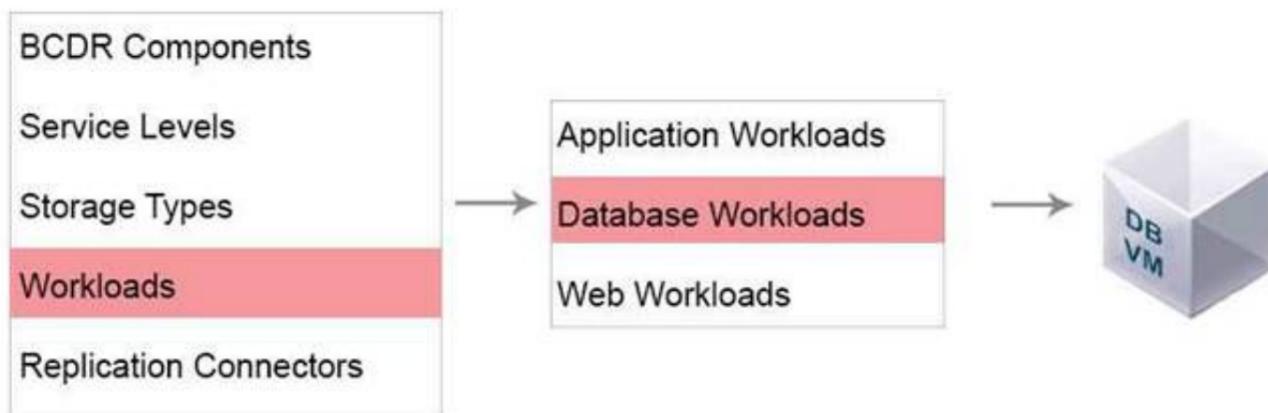
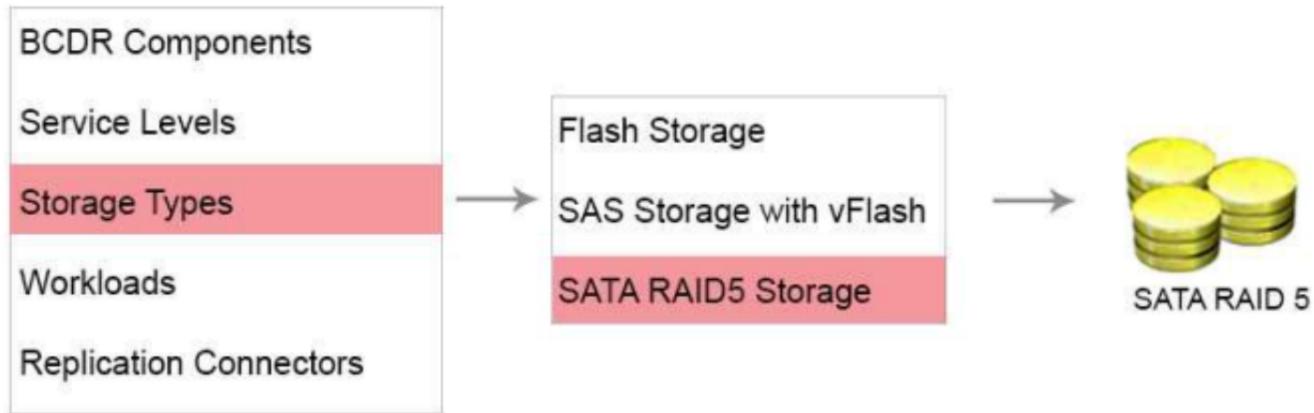
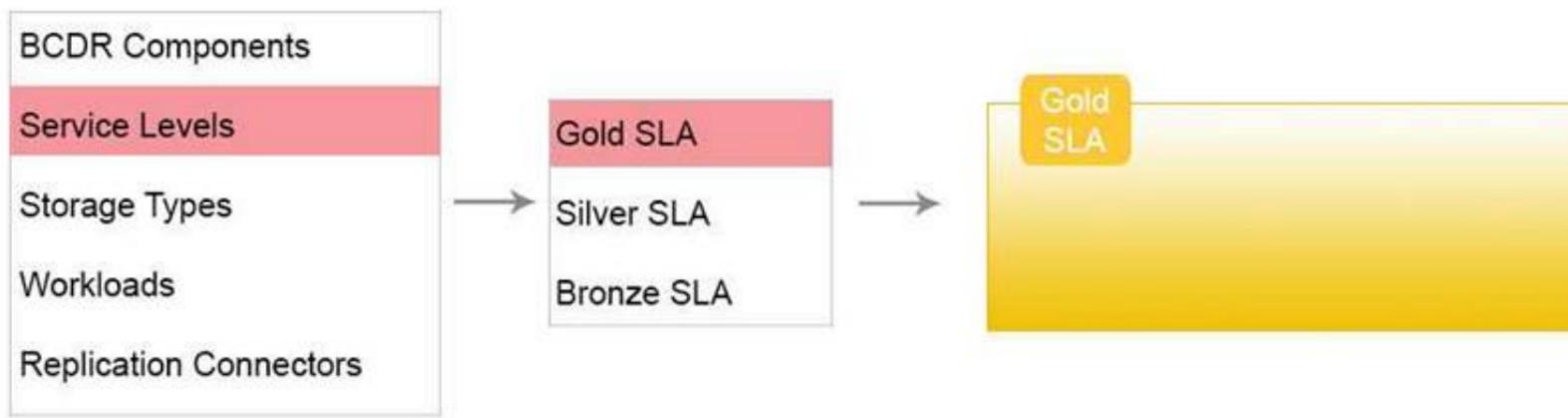
- A. Mastered
- B. Not Mastered

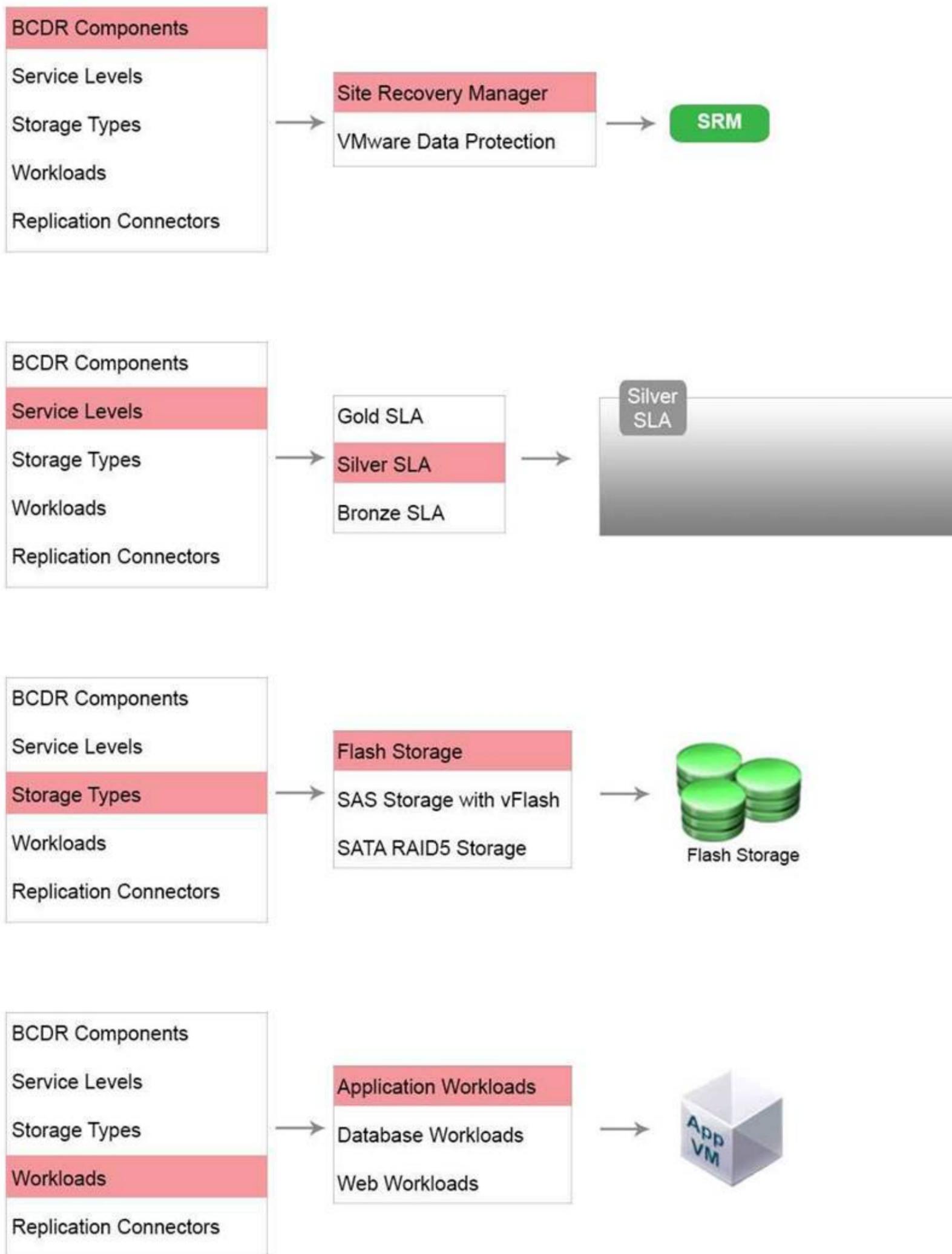
Answer: A

Explanation:

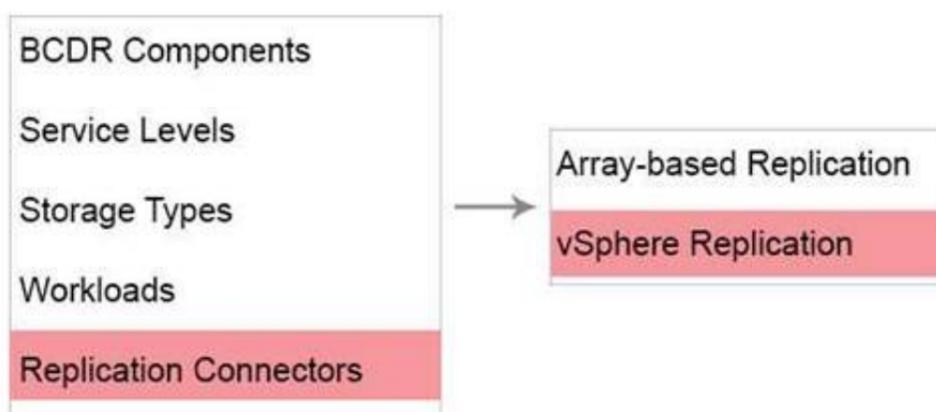
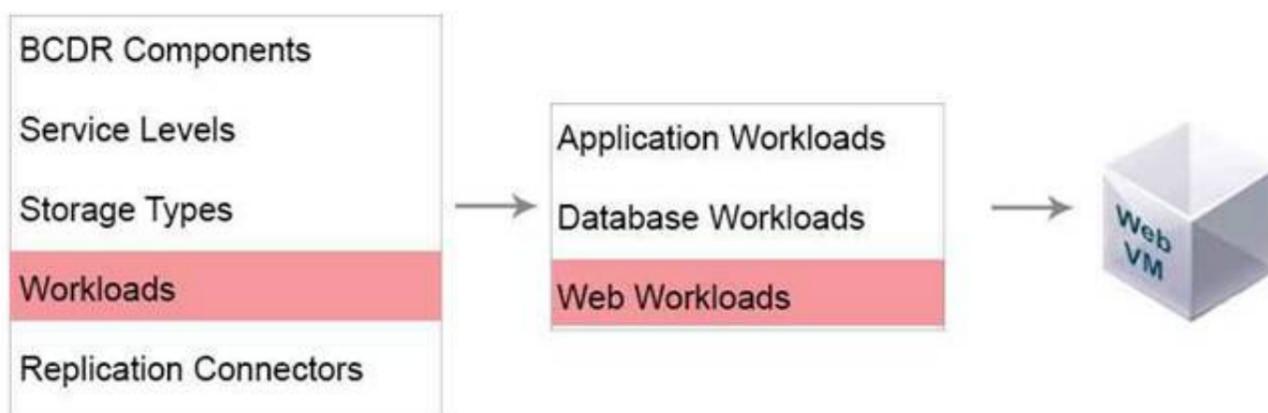
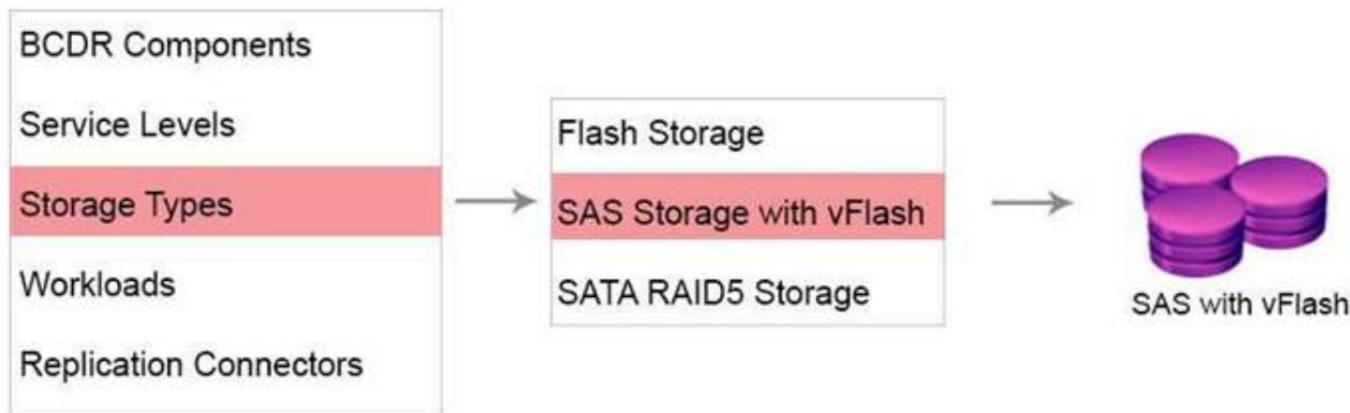
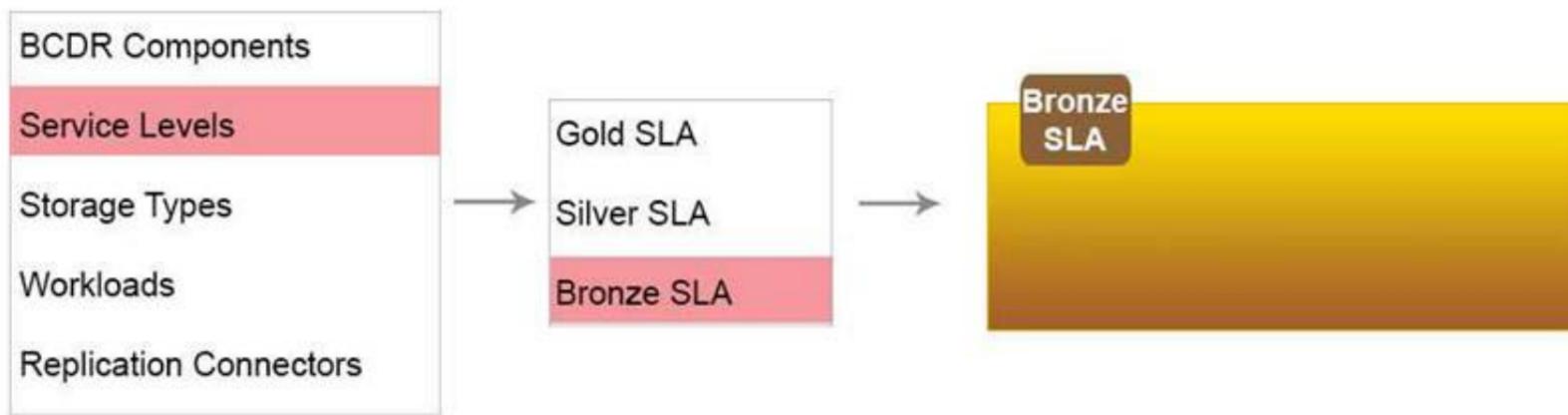
Check below for answer solution Primary







Secondary



NEW QUESTION 94

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 95

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