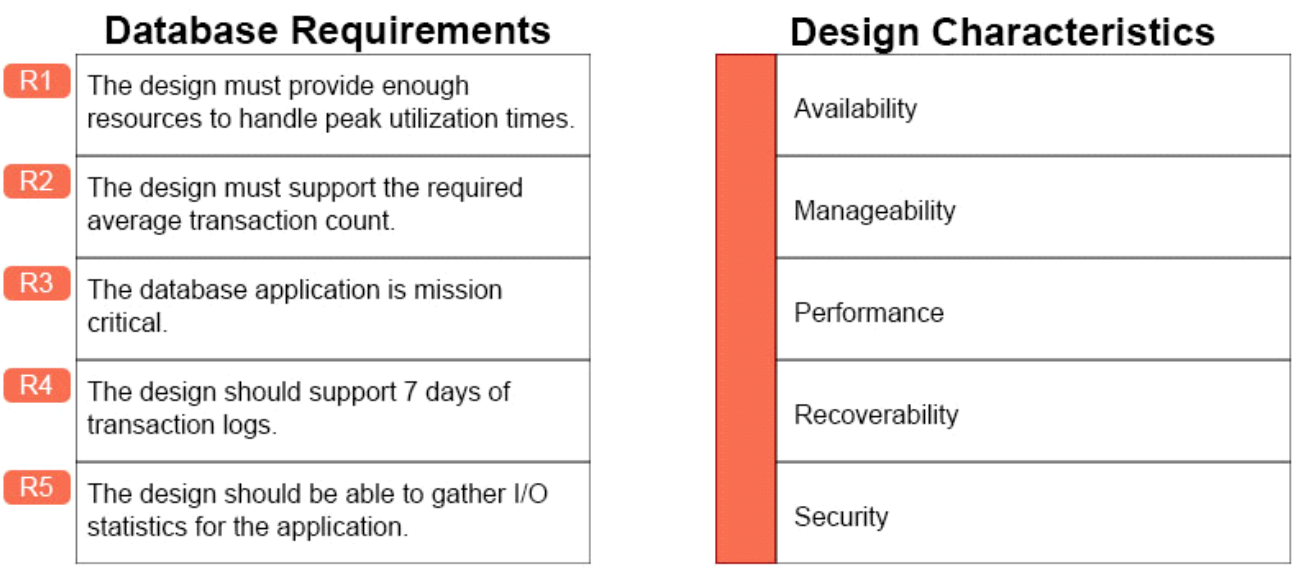
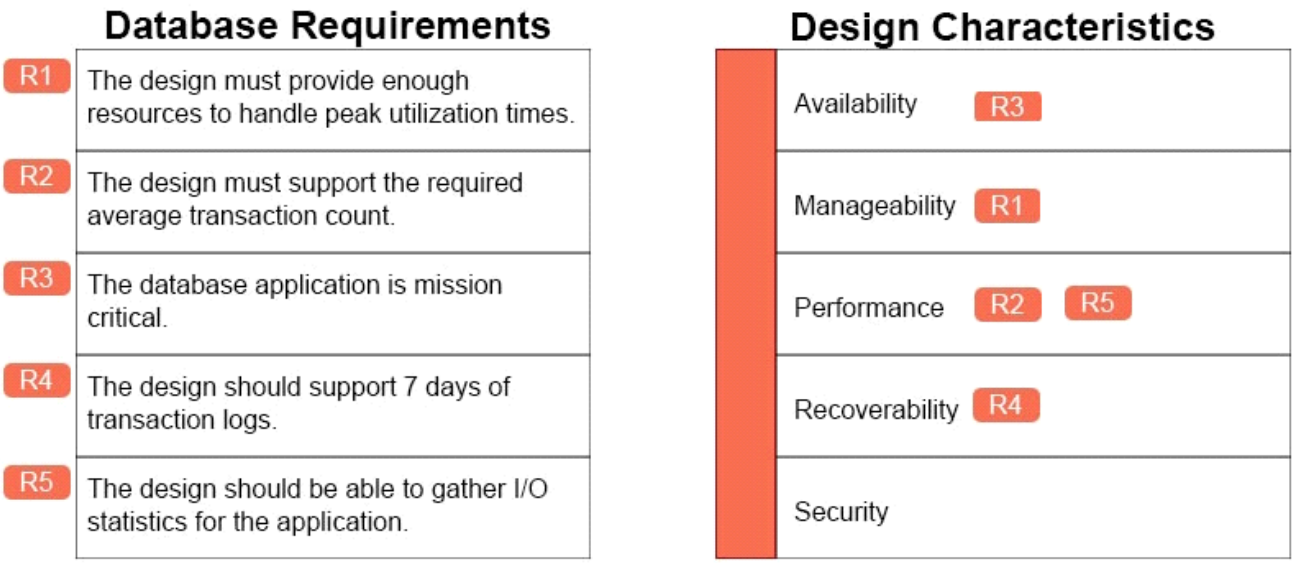
Version: 9.0

Question: 1

DRAG DROP
You have been tasked with creating a vSphere 6.x data center design for an organization. The customer has decided to virtualize their database application and has provided specific design requirements. You must determine how these requirements map to the design characteristic(s).
Match Database Requirements with Design Characteristics by dragging the red button (R1-R5) over the text of the appropriate Design Characteristic.
NOTE: Database Requirements can be mapped to more than one Design Characteristic.



Answer:



Question: 2

Customer Requirements:
You have been tasked with creating a vSphere 6.x 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.

Hardware Objects

Storage Objects

Path Selection Policies

Connectors

→

ESXi Host

2 Port Storage Processor

4 Port Storage Processor

2 Port HBA

4 Port HBA

iSCSI Switch

Fiber Channel Switch

→

Hardware Objects

Storage Objects

Path Selection Policies

Connectors

→

ESXi Host

2 Port Storage Processor

4 Port Storage Processor

2 Port HBA

4 Port HBA

iSCSI Switch

Fiber Channel Switch

→

Hardware Objects

Storage Objects

Path Selection Policies

Connectors

→

ESXi Host

2 Port Storage Processor

4 Port Storage Processor

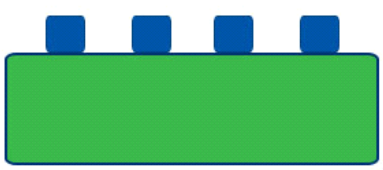
2 Port HBA

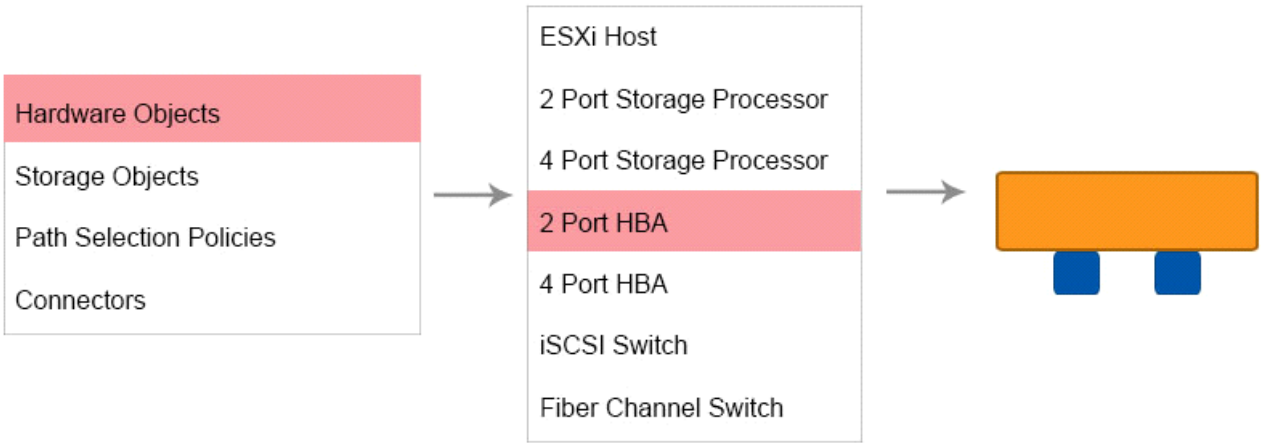
4 Port HBA

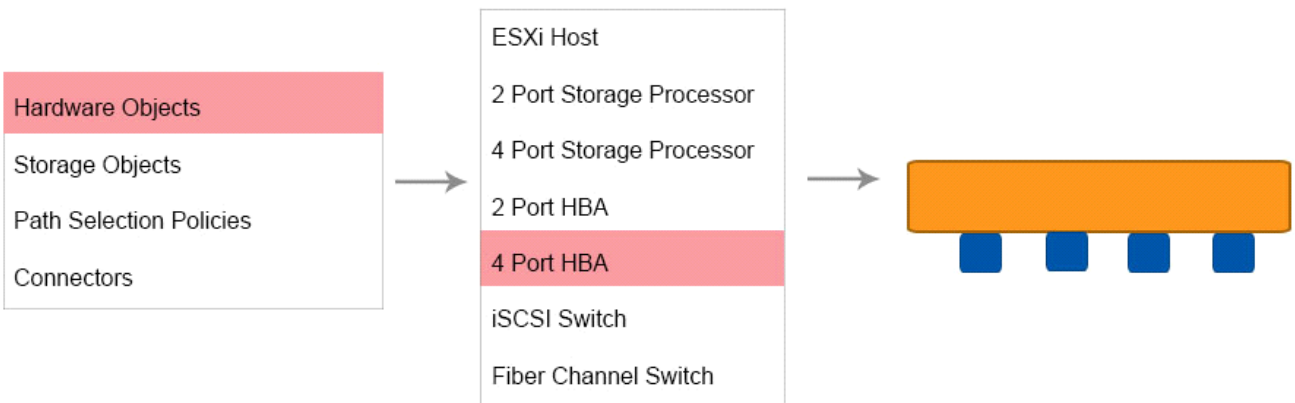
iSCSI Switch

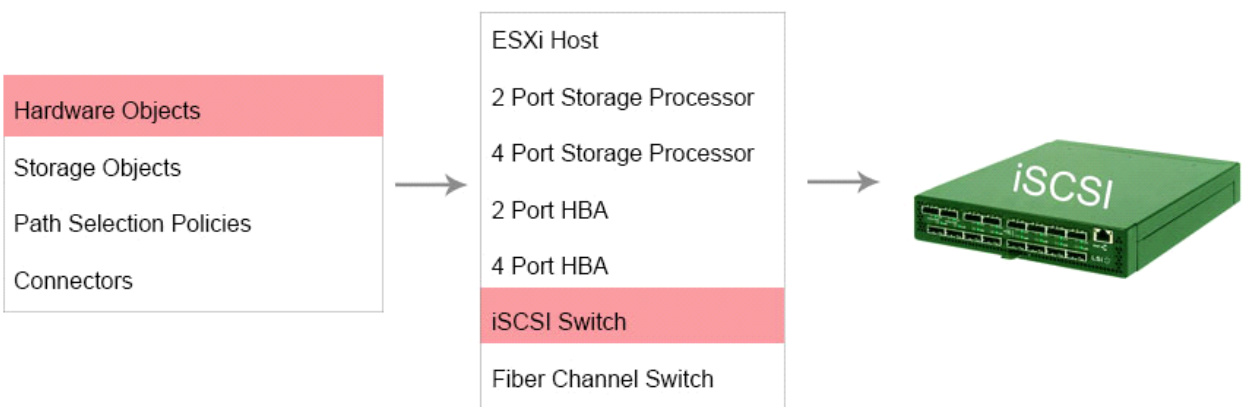
Fiber Channel Switch

→




Hardware Objects
Storage Objects
Path Selection Policies
Connectors
ESXi Host
2 Port Storage Processor
4 Port Storage Processor
2 Port HBA
4 Port HBA
iSCSI Switch
Fiber Channel Switch


Hardware Objects
Storage Objects
Path Selection Policies
Connectors
ESXi Host
2 Port Storage Processor
4 Port Storage Processor
2 Port HBA
4 Port HBA
iSCSI Switch
Fiber Channel Switch


Hardware Objects
Storage Objects
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Connectors
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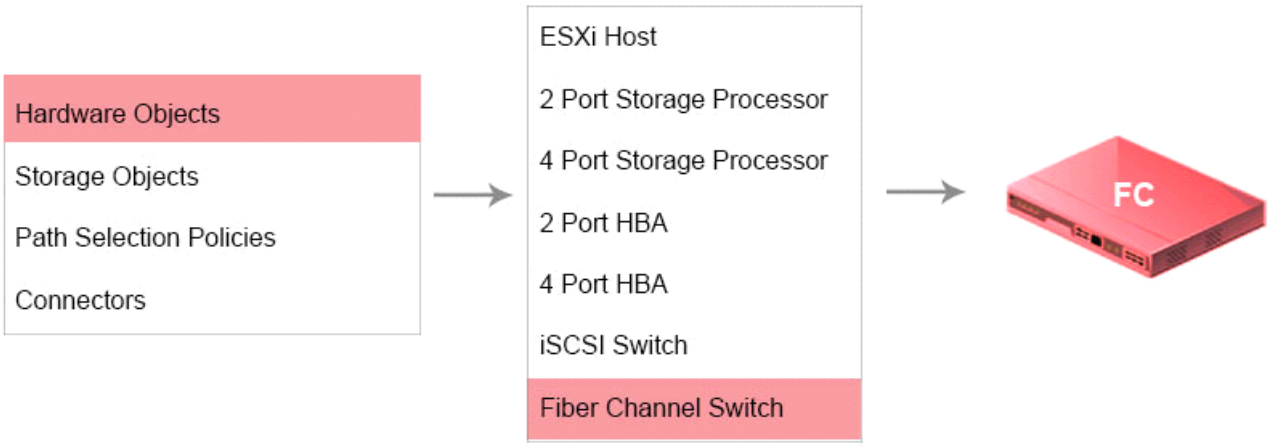
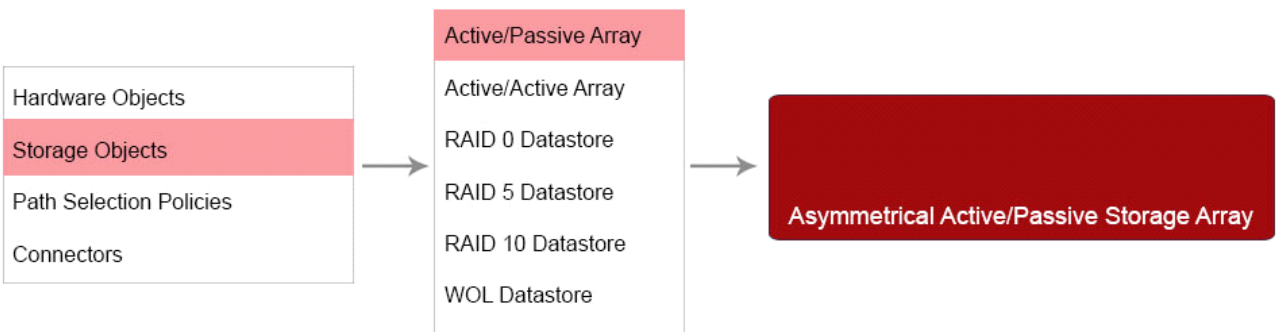
2 Port HBA
4 Port HBA
iSCSI Switch
Fiber Channel Switch
iSCSI


Hardware Objects
Storage Objects
Path Selection Policies
Connectors
ESXi Host
2 Port Storage Processor
4 Port Storage Processor
2 Port HBA
4 Port HBA
iSCSI Switch
Fiber Channel Switch
FC


Hardware Objects
Storage Objects
Path Selection Policies
Connectors
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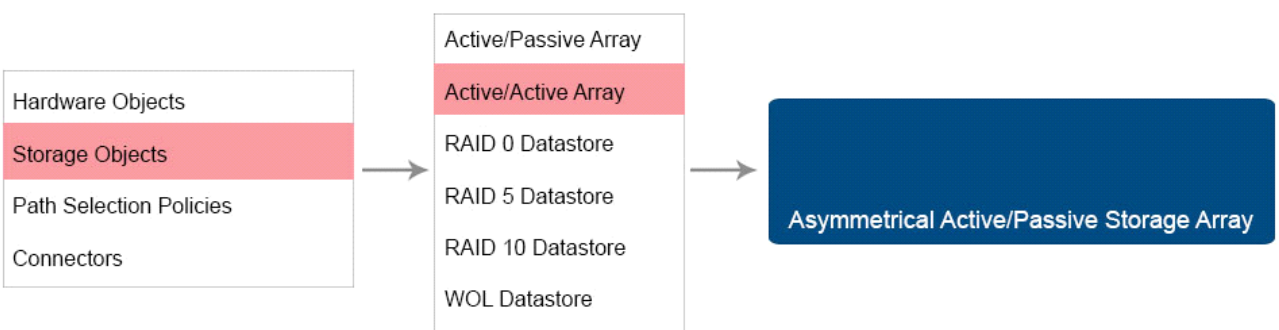
Active/Active Array
RAID 0 Datastore
RAID 5 Datastore
RAID 10 Datastore
WOL Datastore
Asymmetrical Active/Passive Storage Array


Hardware Objects
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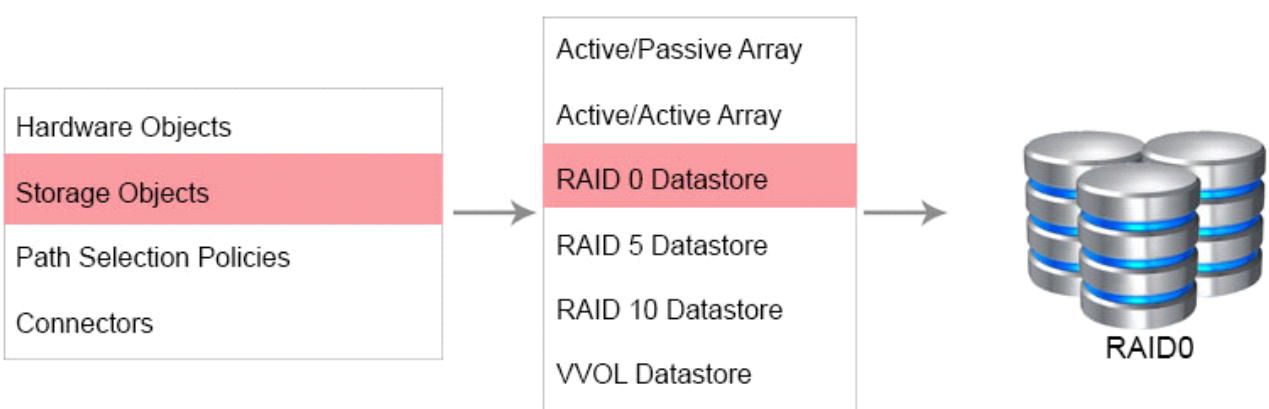
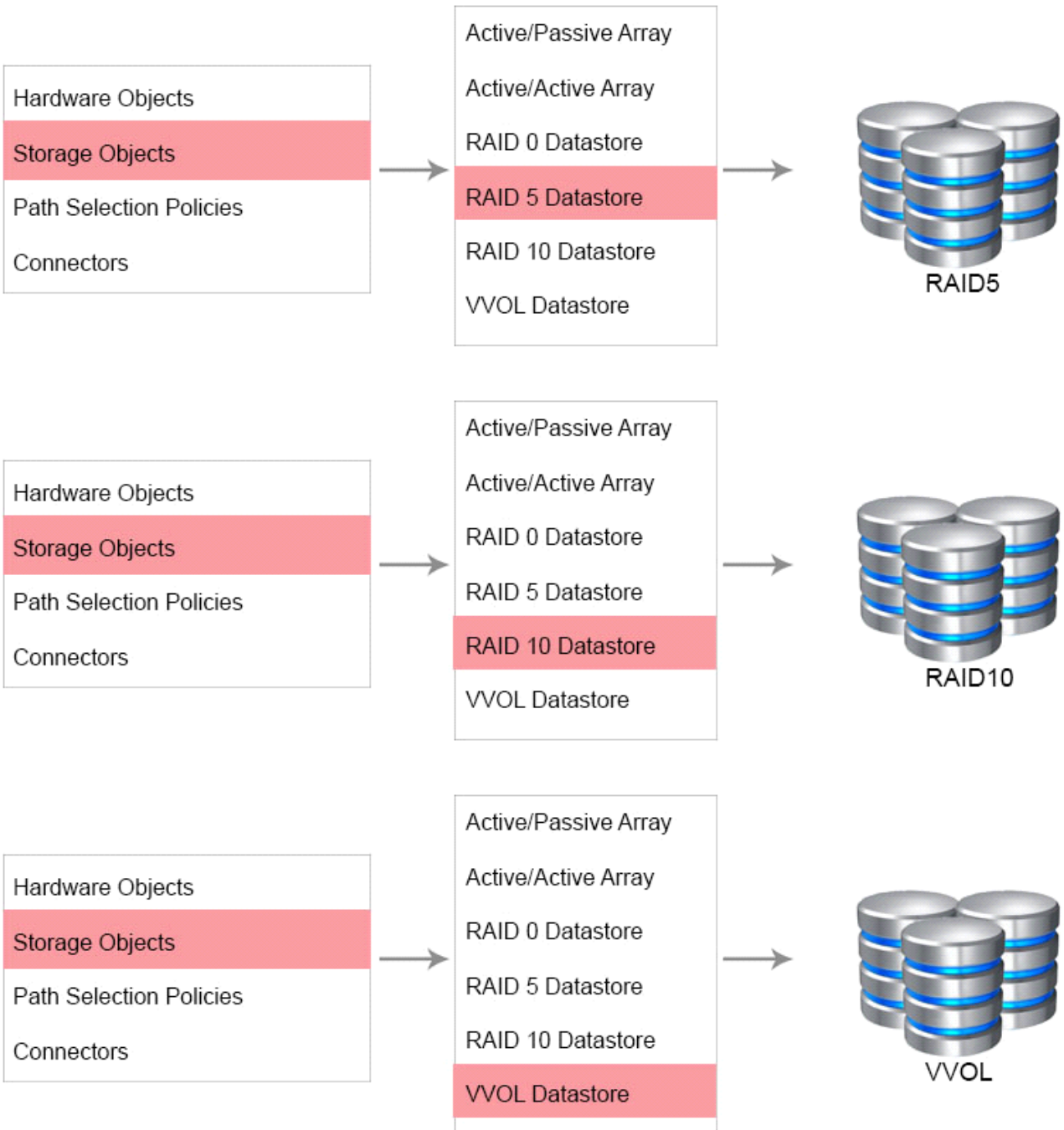
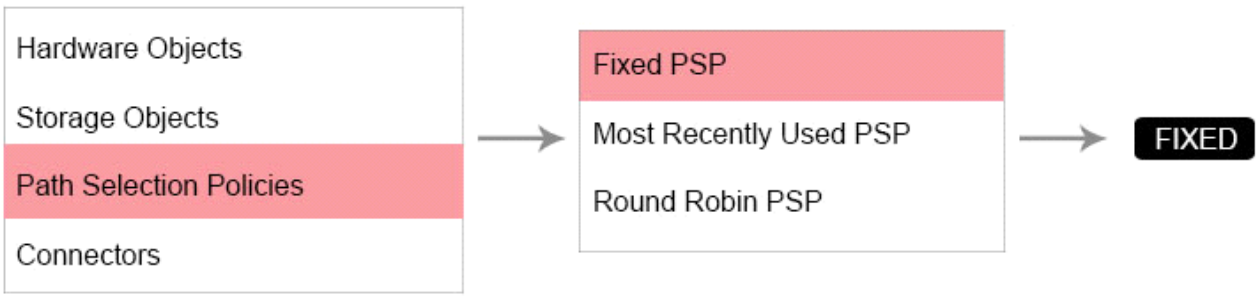
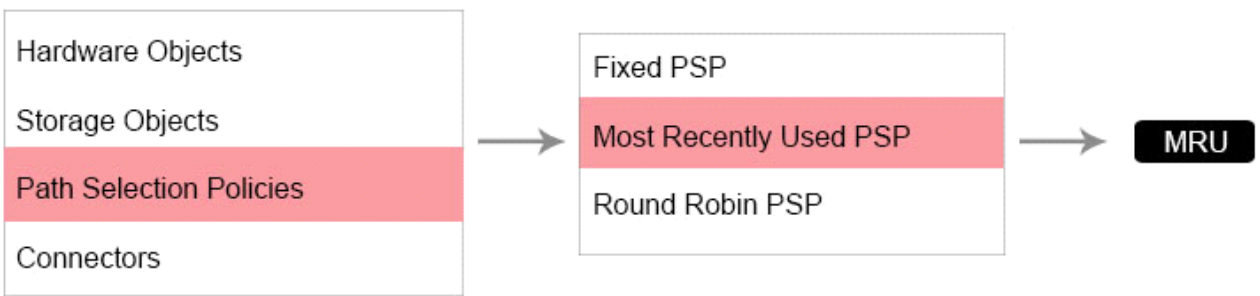
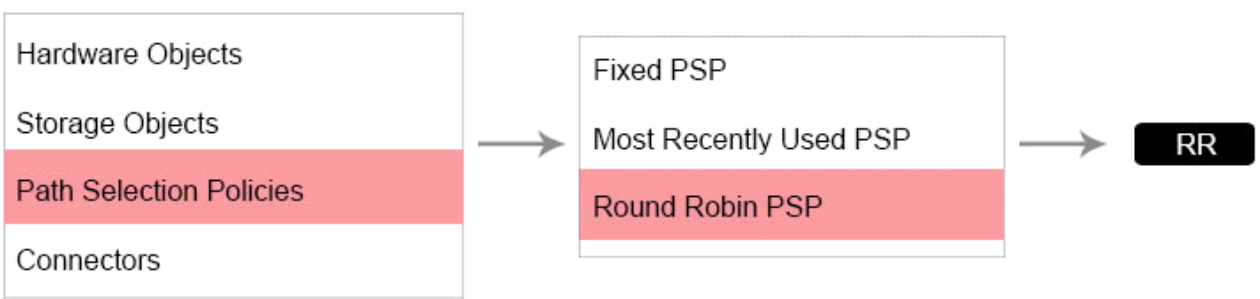
Active/Passive Array
Active/Active Array
RAID 0 Datastore
RAID 5 Datastore
RAID 10 Datastore
WOL Datastore
Asymmetrical Active/Passive Storage Array

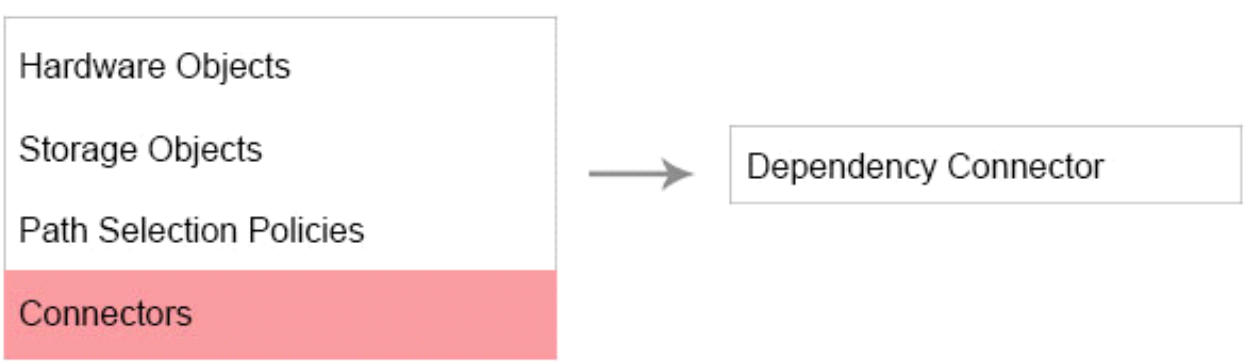

Hardware Objects
Storage Objects
Path Selection Policies
Connectors
Active/Passive Array
Active/Active Array
RAID 0 Datastore
RAID 5 Datastore
RAID 10 Datastore
VVOL Datastore
RAID0


Hardware Objects
Storage Objects
Path Selection Policies
Connectors
Active/Passive Array
Active/Active Array
RAID 0 Datastore
RAID 5 Datastore
RAID 10 Datastore
VVOL Datastore
RAID5
Hardware Objects
Storage Objects
Path Selection Policies
Connectors
Active/Passive Array
Active/Active Array
RAID 0 Datastore
RAID 5 Datastore
RAID 10 Datastore
VVOL Datastore
RAID10
Hardware Objects
Storage Objects
Path Selection Policies
Connectors
Active/Passive Array
Active/Active Array
RAID 0 Datastore
RAID 5 Datastore
RAID 10 Datastore
VVOL Datastore
VVOL


Hardware Objects
Storage Objects
Path Selection Policies
Connectors
Fixed PSP
Most Recently Used PSP
Round Robin PSP
FIXED

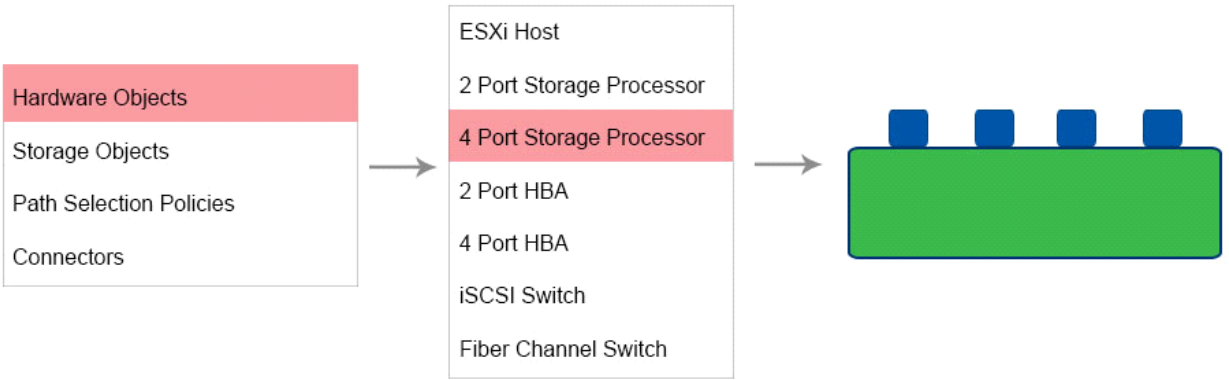

Hardware Objects
Storage Objects
Path Selection Policies
Connectors
Fixed PSP
Most Recently Used PSP
Round Robin PSP
MRU

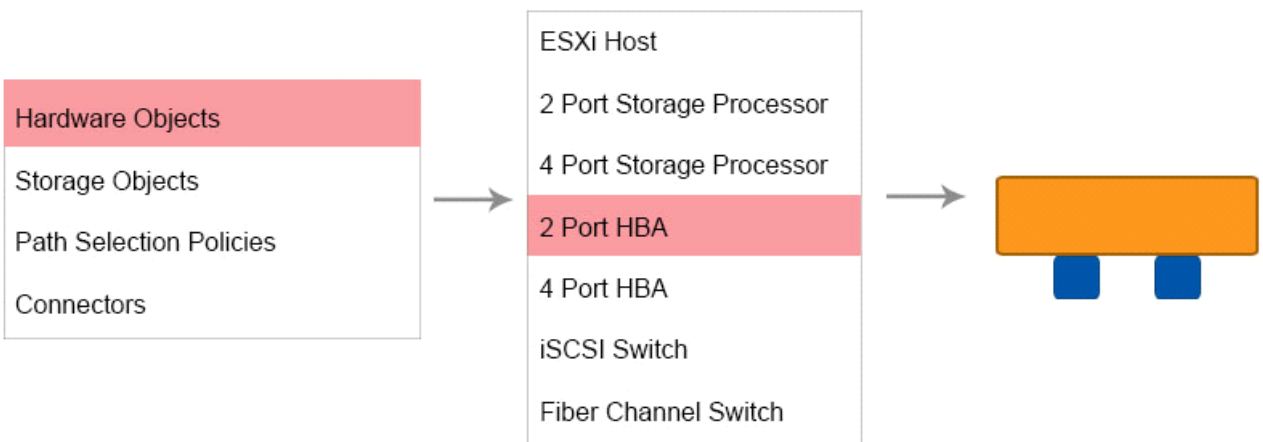

Hardware Objects
Storage Objects
Path Selection Policies
Connectors
Fixed PSP
Most Recently Used PSP
Round Robin PSP
RR

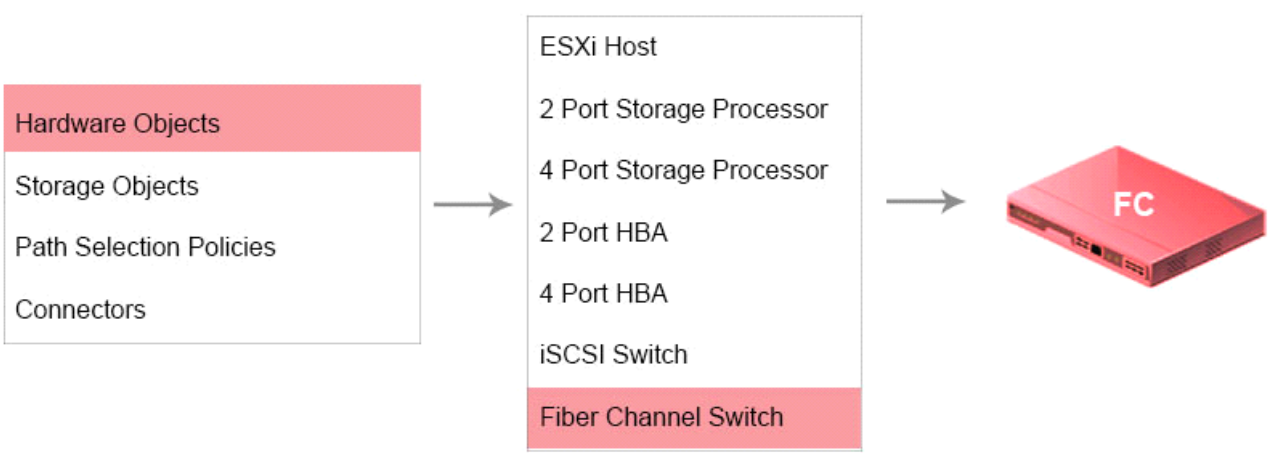

Hardware Objects
Storage Objects
Path Selection Policies
Connectors
Dependency Connector

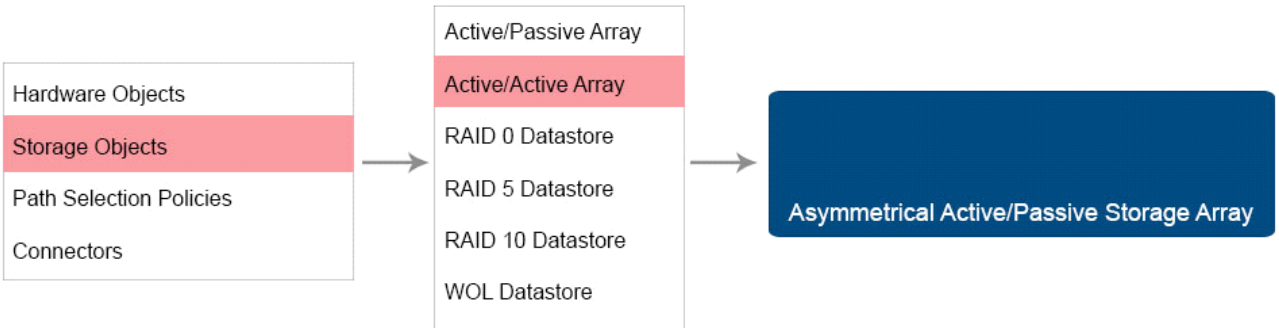
Answer:

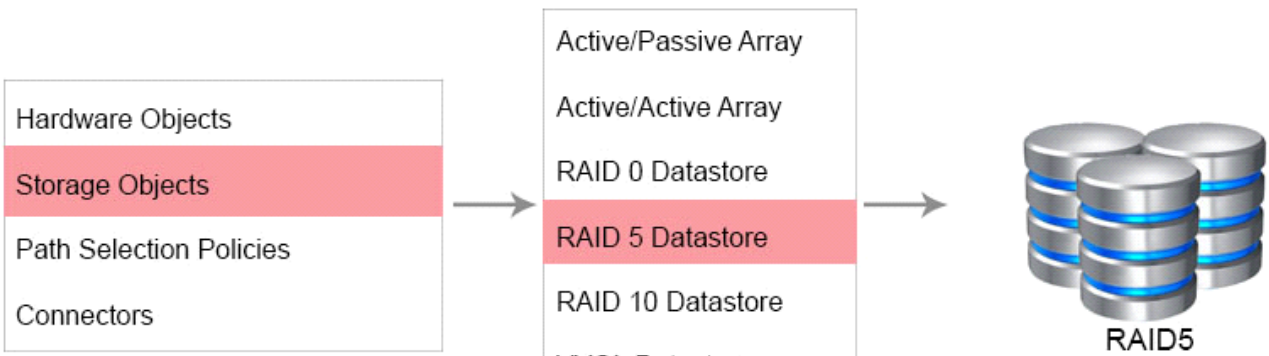
See the solution below
Check below for answer solution








Hardware Objects
Storage Objects
Path Selection Policies
Connectors
Active/Passive Array
Active/Active Array
RAID 0 Datastore
RAID 5 Datastore
RAID 10 Datastore
WOL Datastore
Asymmetrical Active/Passive Storage Array


Hardware Objects
Storage Objects
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Active/Passive Array
Active/Active Array
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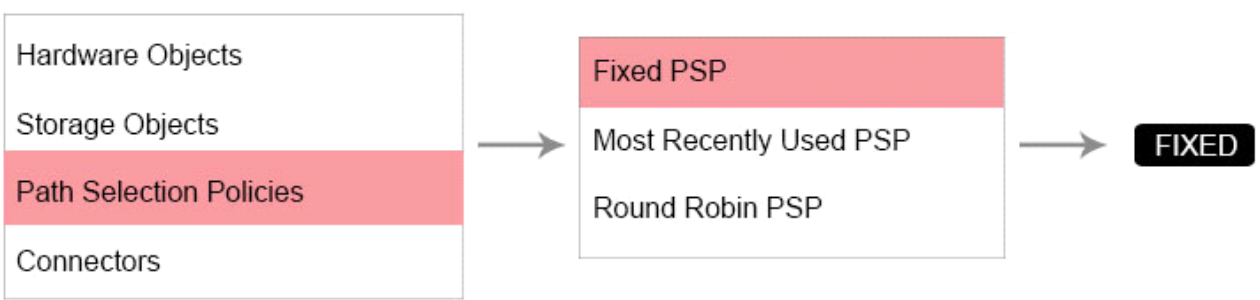
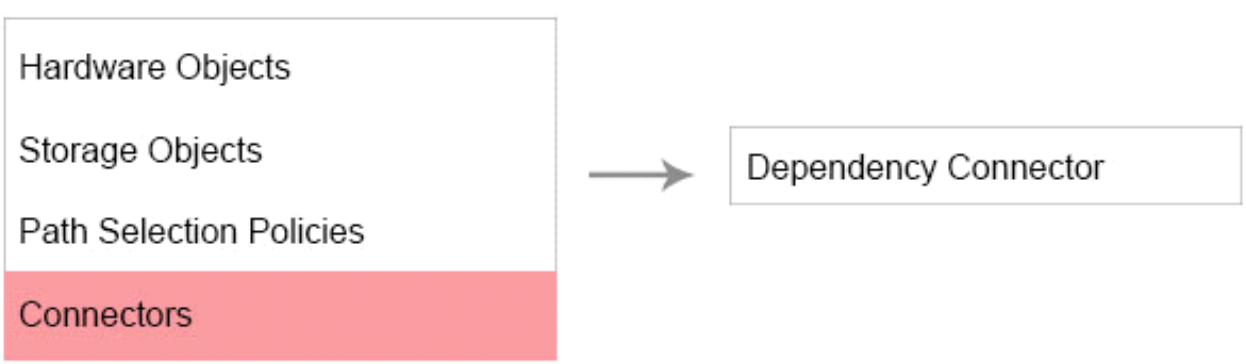
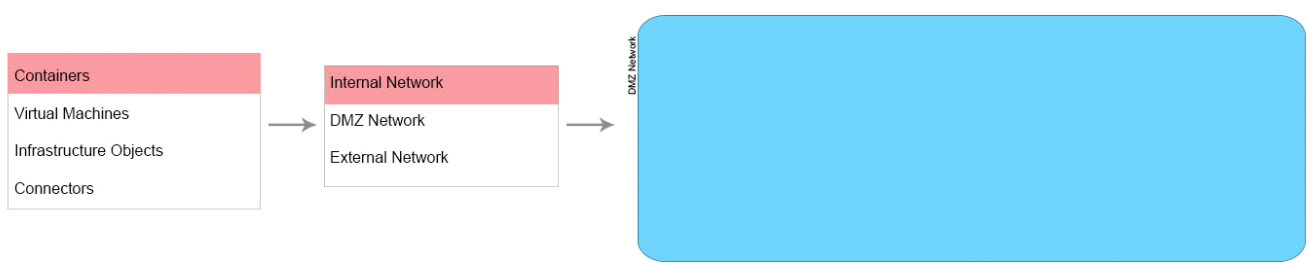
RAID 5 Datastore
RAID 10 Datastore
VVOL Datastore
RAID5

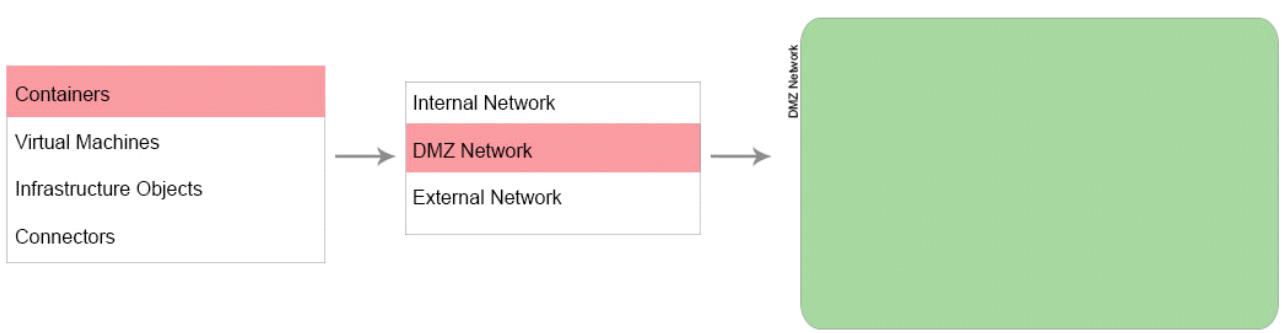

Hardware Objects
Storage Objects
Path Selection Policies
Connectors
Fixed PSP
Most Recently Used PSP
Round Robin PSP
FIXED

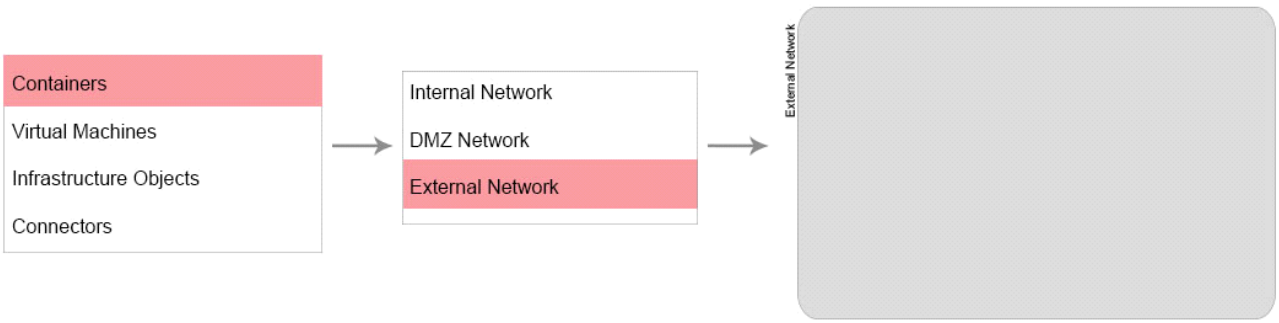

Hardware Objects
Storage Objects
Path Selection Policies
Connectors
Dependency Connector

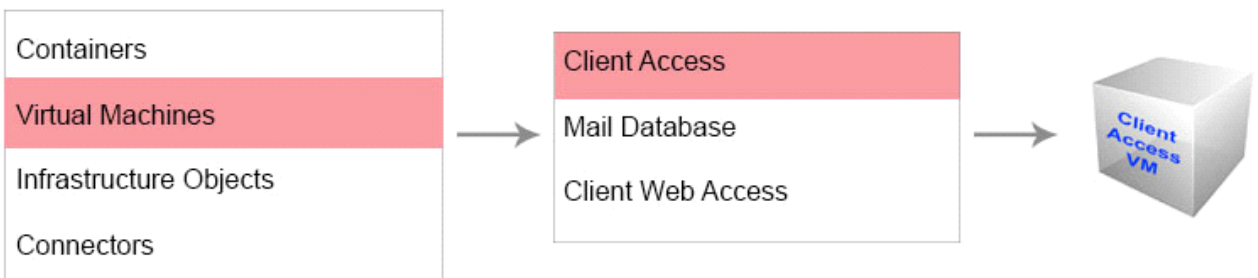
Question: 3

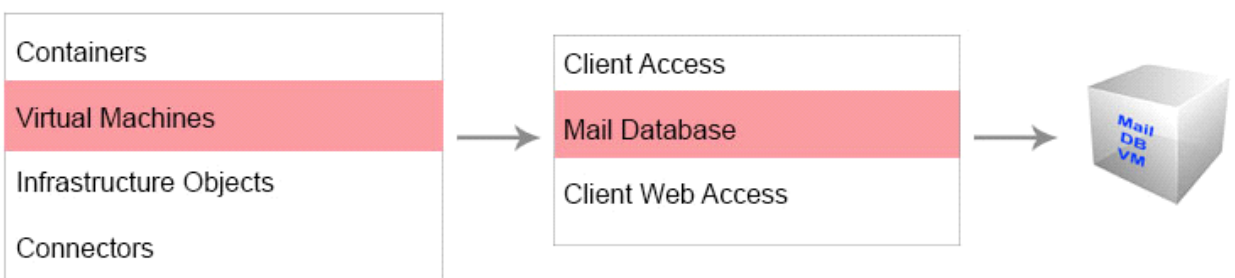
Customer Requirements:
You have been tasked with creating a vSphere 6.x data center design for an organization. The organization is looking to virtualize their physical email application. The company has provided a list of requirements that must be included in the design:
- E-mail database is replicated 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).






Containers
Virtual Machines
Infrastructure Objects
Connectors
Internal Network
DMZ Network
External Network
External Network


Containers
Virtual Machines
Infrastructure Objects
Connectors
Client Access
Mail Database
Client Web Access
Client Access VM


Containers
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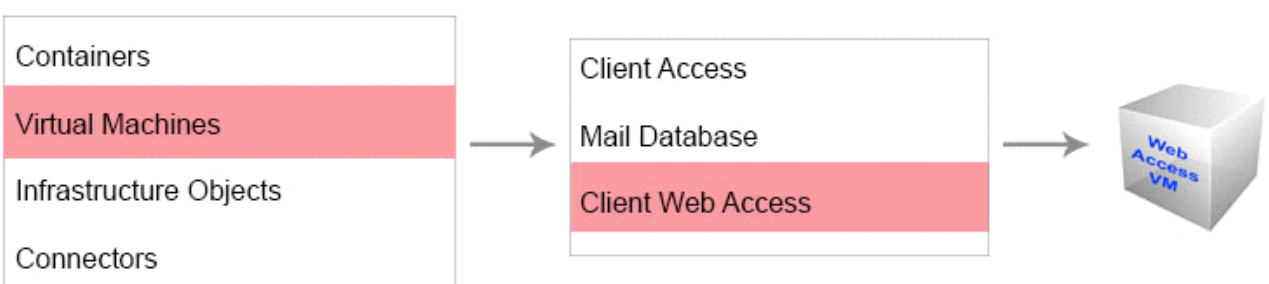
Client Web Access
Mail DB VM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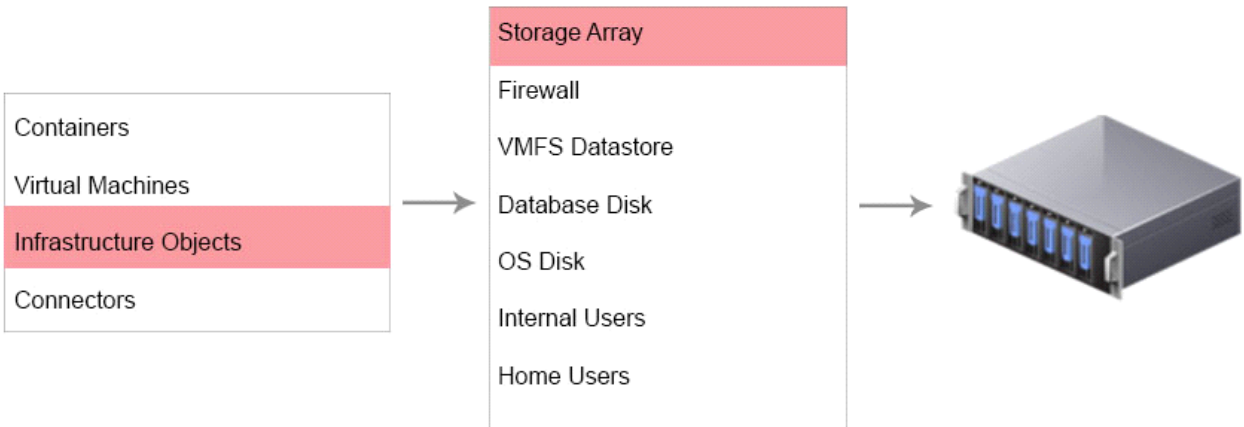
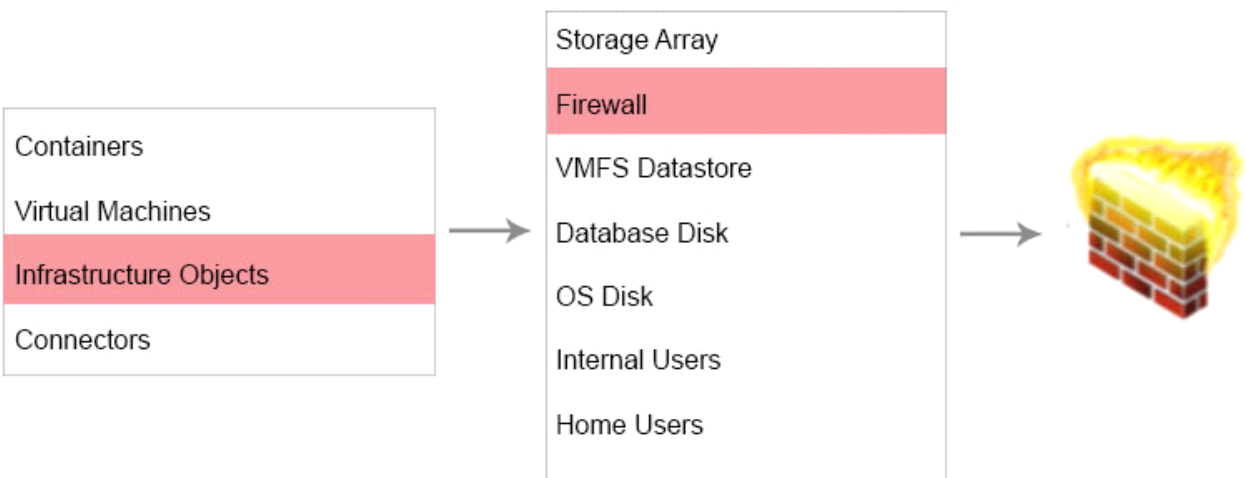
Web Access VM


Containers
Virtual Machines
Infrastructure Objects
Connectors
Storage Array
Firewall
VMFS Datastore
Database Disk
OS Disk
Internal Users
Home Users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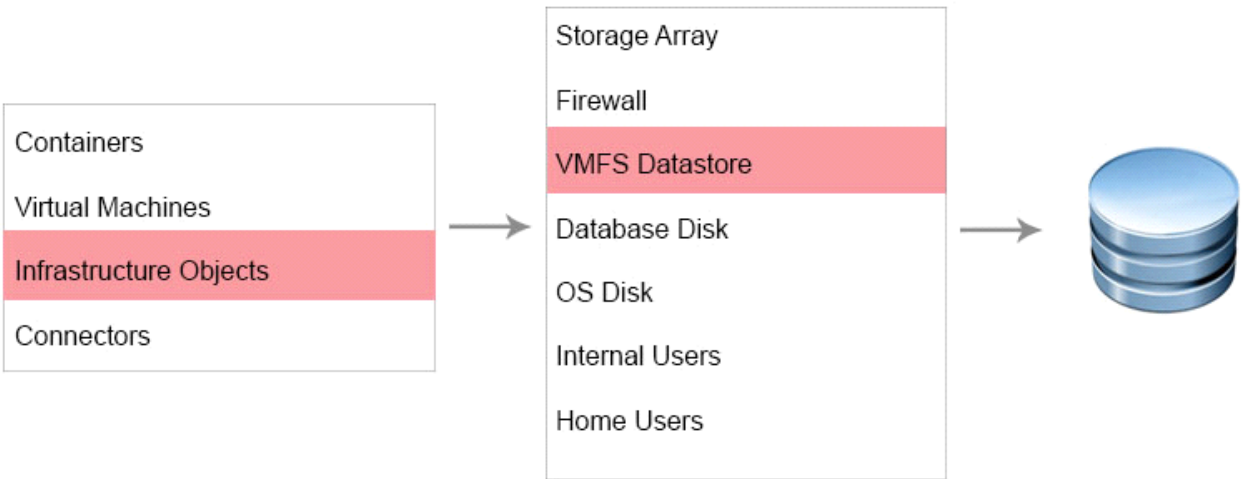
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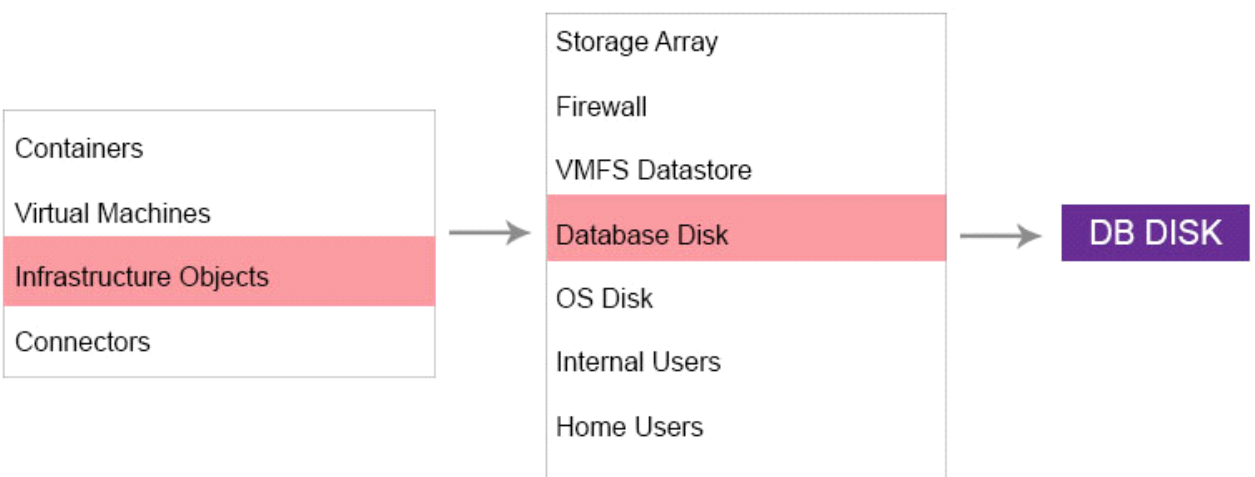
VMFS Datastore
Database Disk
OS Disk
Internal Users
Home Users


Containers
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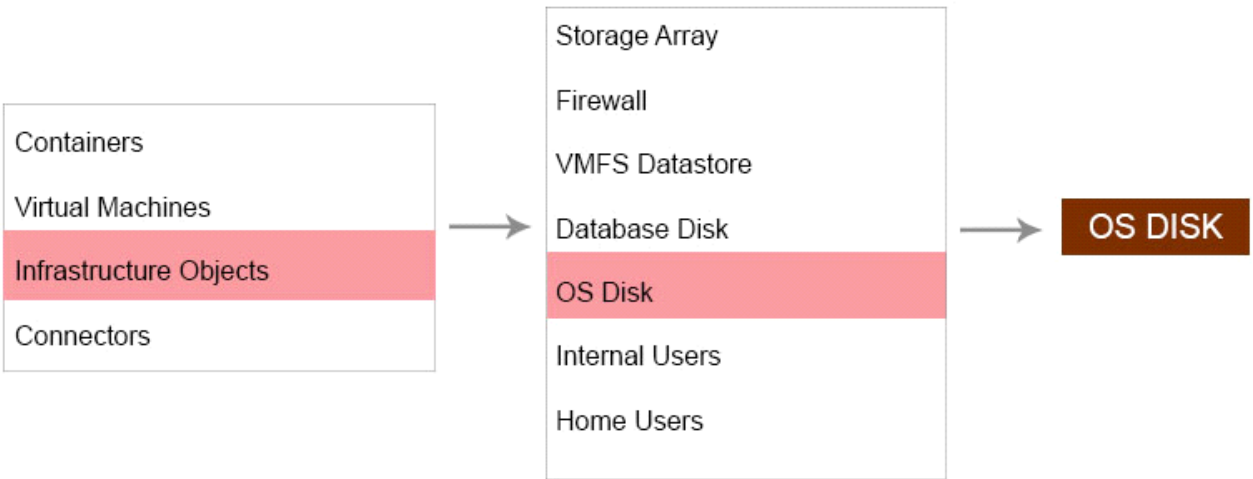
Infrastructure Objects
Connectors
Storage Array
Firewall
VMFS Datastore
Database Disk
OS Disk
Internal Users
Home Users
DB DISK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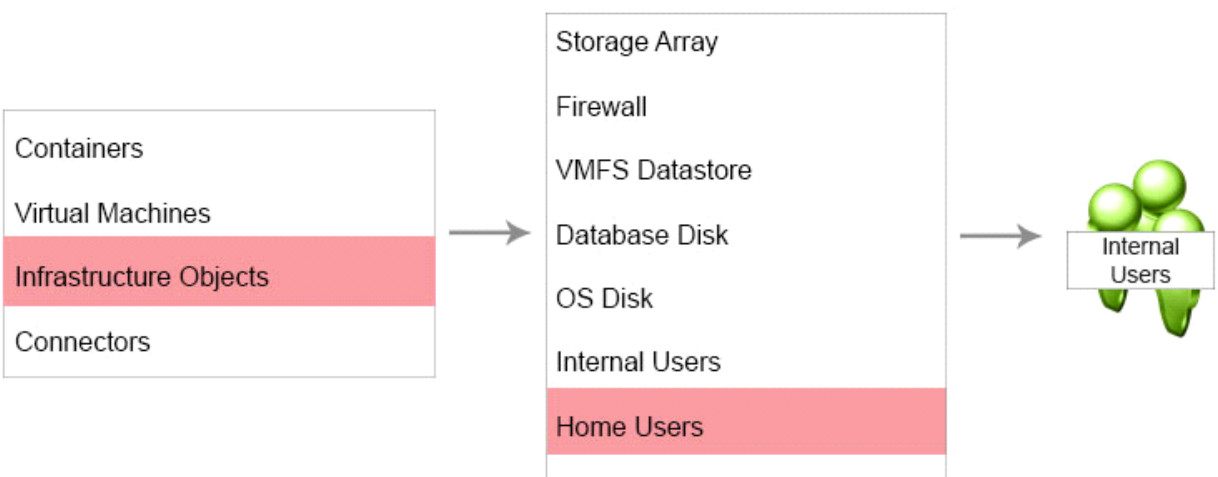
Firewall
VMFS Datastore
Database Disk
OS Disk
Internal Users
Home Users
OS DISK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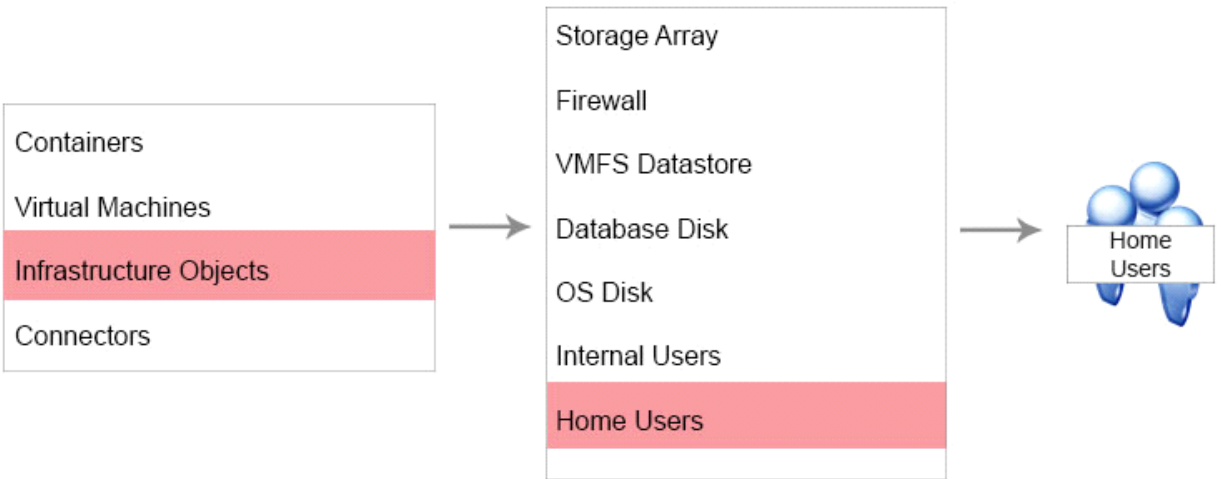
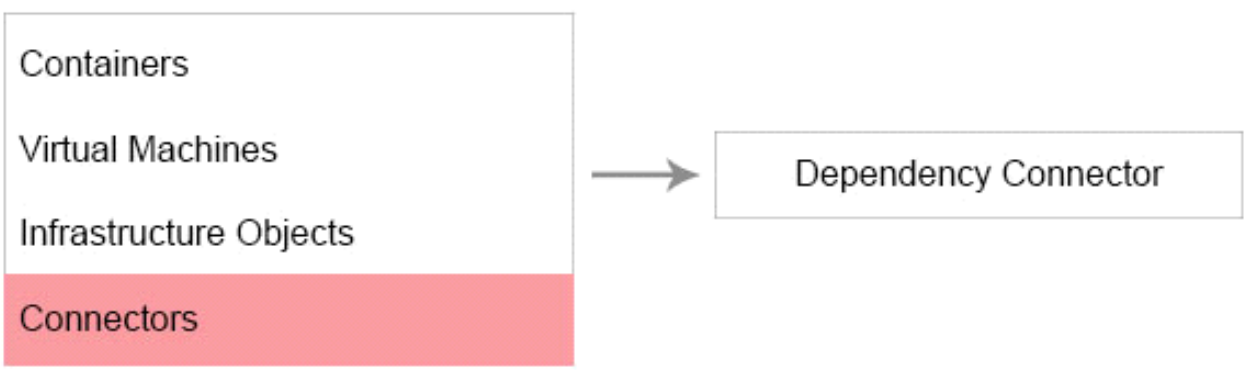
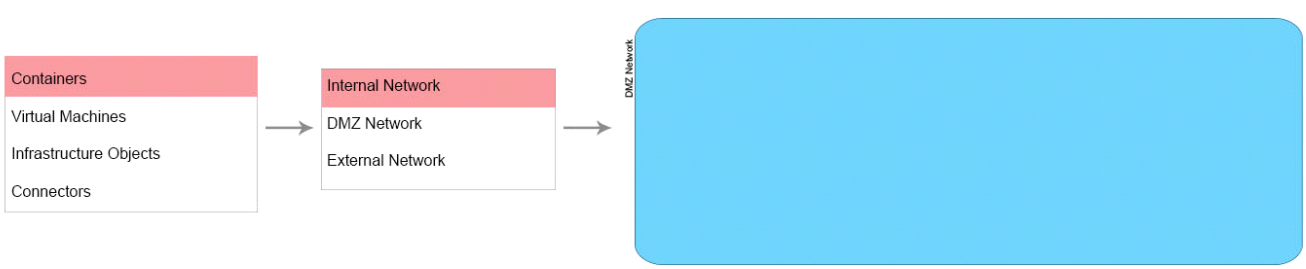
OS Disk
Internal Users
Home Users
Internal Users

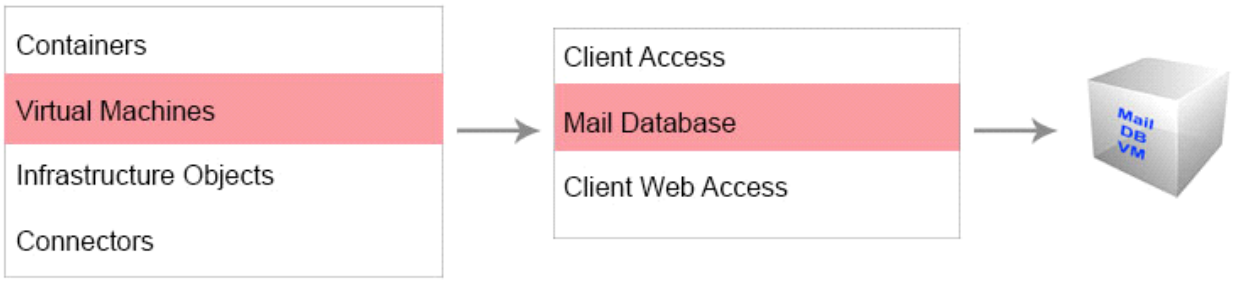


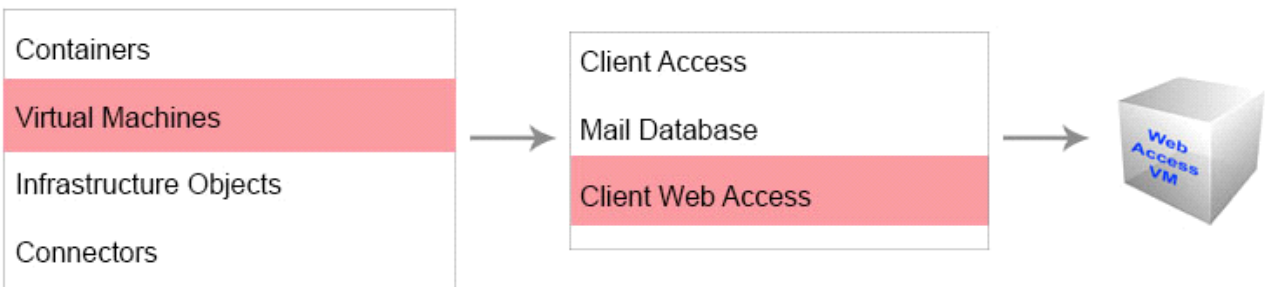


Answer:

Check below for answer solution




Containers
Virtual Machines
Infrastructure Objects
Connectors
Client Access
Mail Database
Client Web Access
Mail DB VM


Containers
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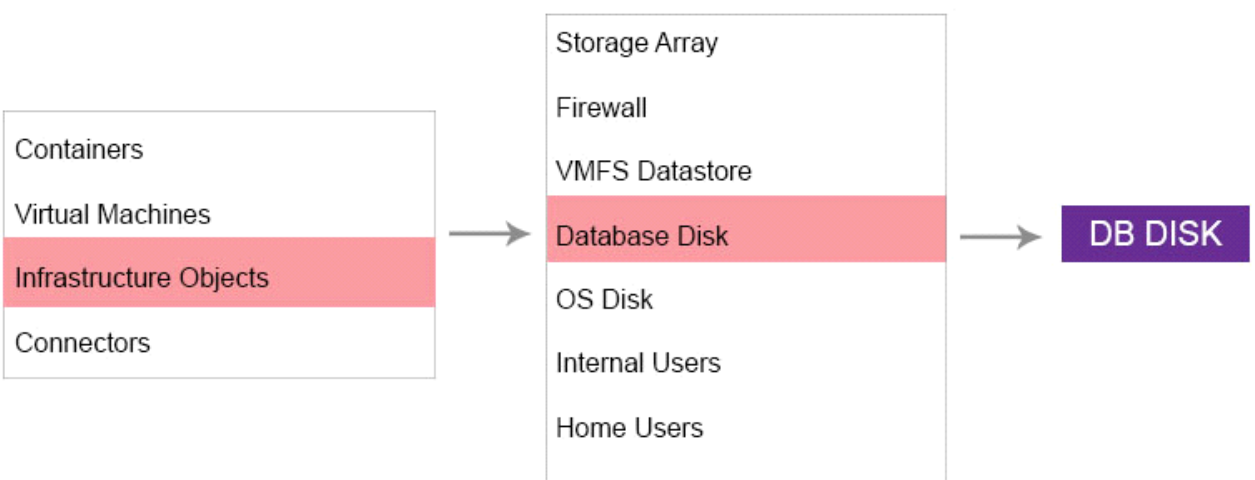
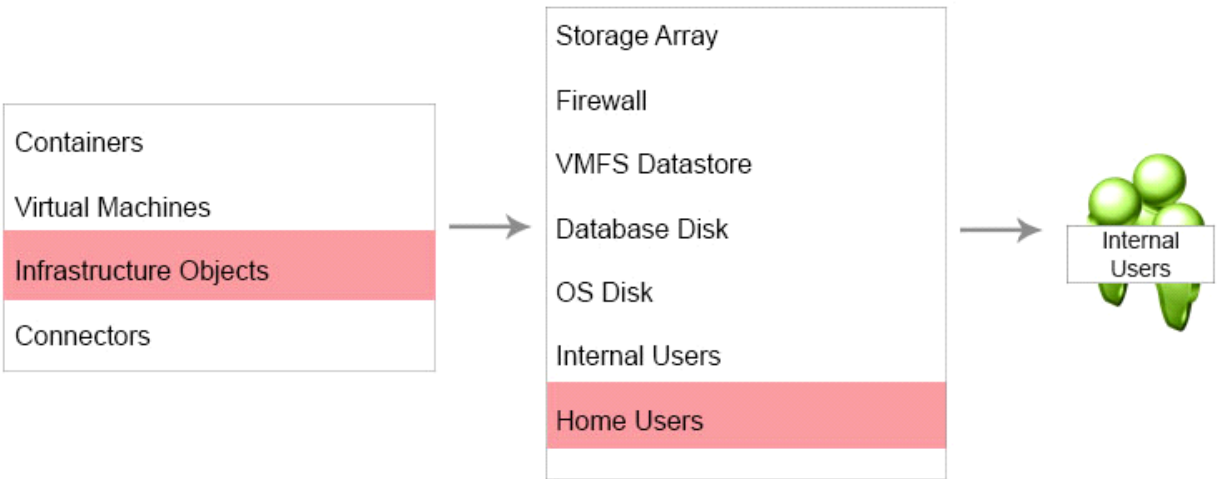
Client Web Access
Web Access VM


Containers
Virtual Machines
Infrastructure Objects
Connectors
Storage Array
Firewall
VMFS Datastore
Database Disk
OS Disk
Internal Users
Home Users
DB DISK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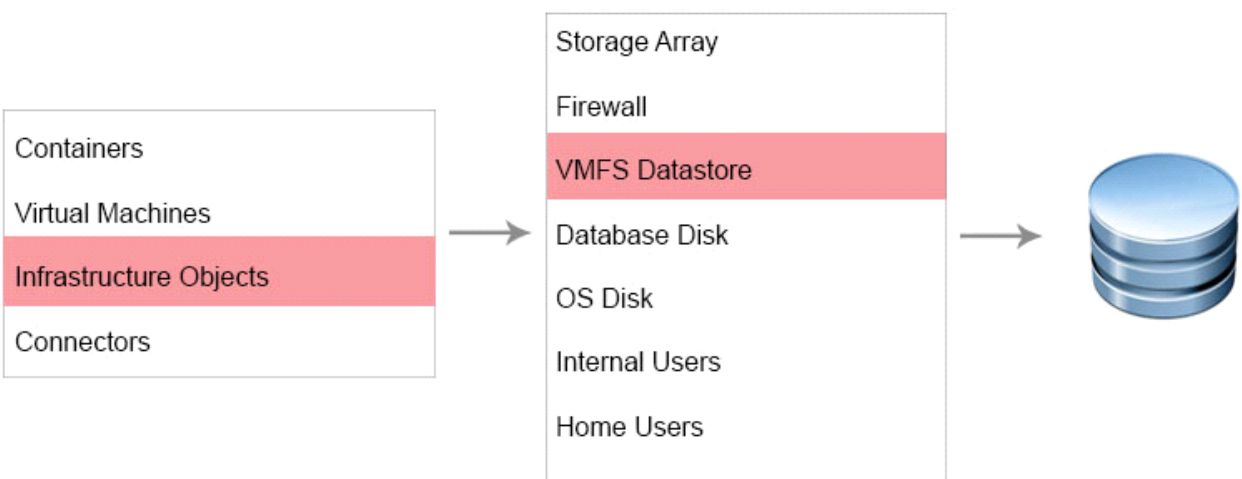
Database Disk
OS Disk
Internal Users
Home Users
Internal Users


Containers
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Containers
Virtual Machines
Infrastructure Objects
Connectors
Dependency Connector