Exam Questions 3v0-624

VMware Certified Advanced Professional 6.5 - Data Center Virtualization Design Exam

https://www.2passeasy.com/dumps/3v0-624/

NEW QUESTION 1
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.

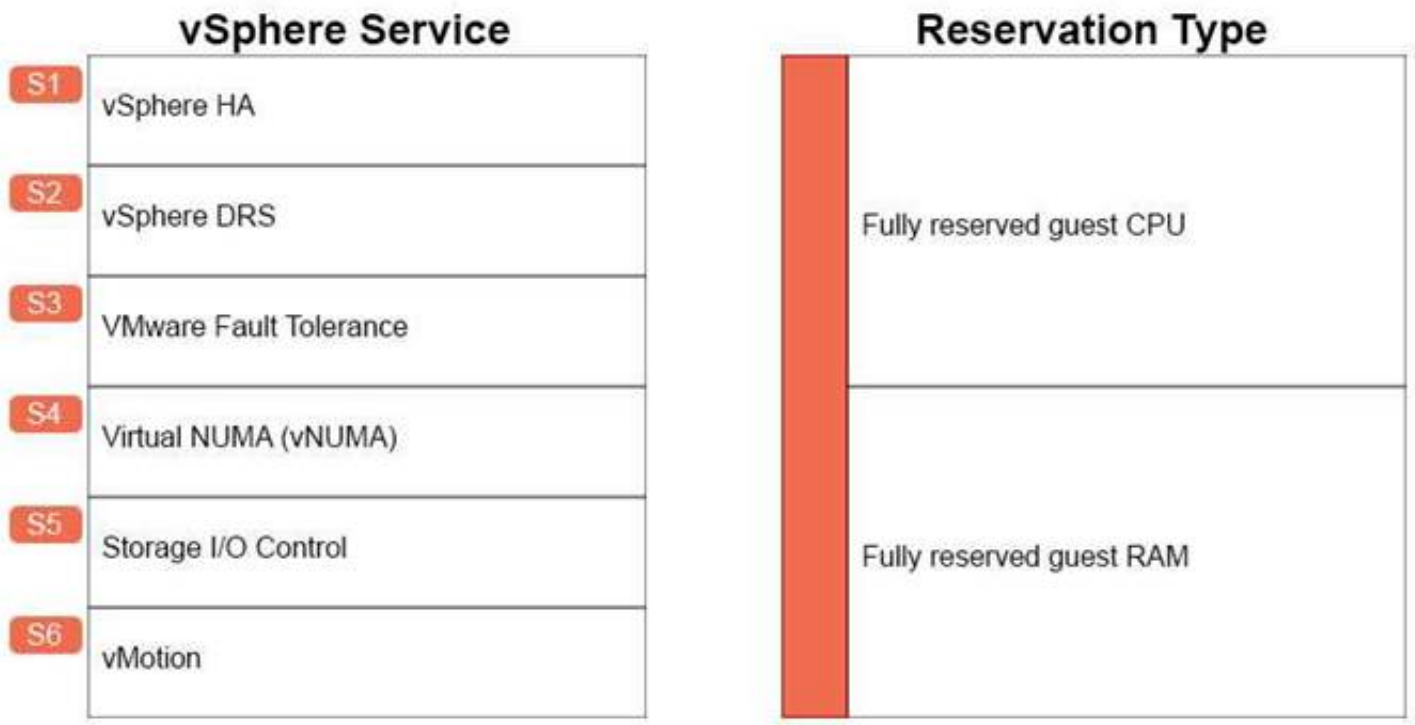
Answer: BC

NEW QUESTION 2
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 wan 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 3
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 4
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 availabl
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 5
A solution architect has been tasked with designing a new environment that meets the needs of a growing company, and has obtained this information:
• The current capacity will be exhausted in 180 days, and the new infrastructure must be deployed and in production prior to that.
• The new servers have a 90-day delivery time.
• A data center for disaster recovery has been selected, and it is 20 miles away and connected by MPLS.
• The security team will continue to utilize its current investments and VM Encryption for the new environment.
• The backup team currently uses Data Domain, and reports show an 8:1 compression and deduplication ratio for backups.
Based on the information obtained, which two statements are risks for the new design? (Choose two.)

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

Answer: AB

NEW QUESTION 6
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

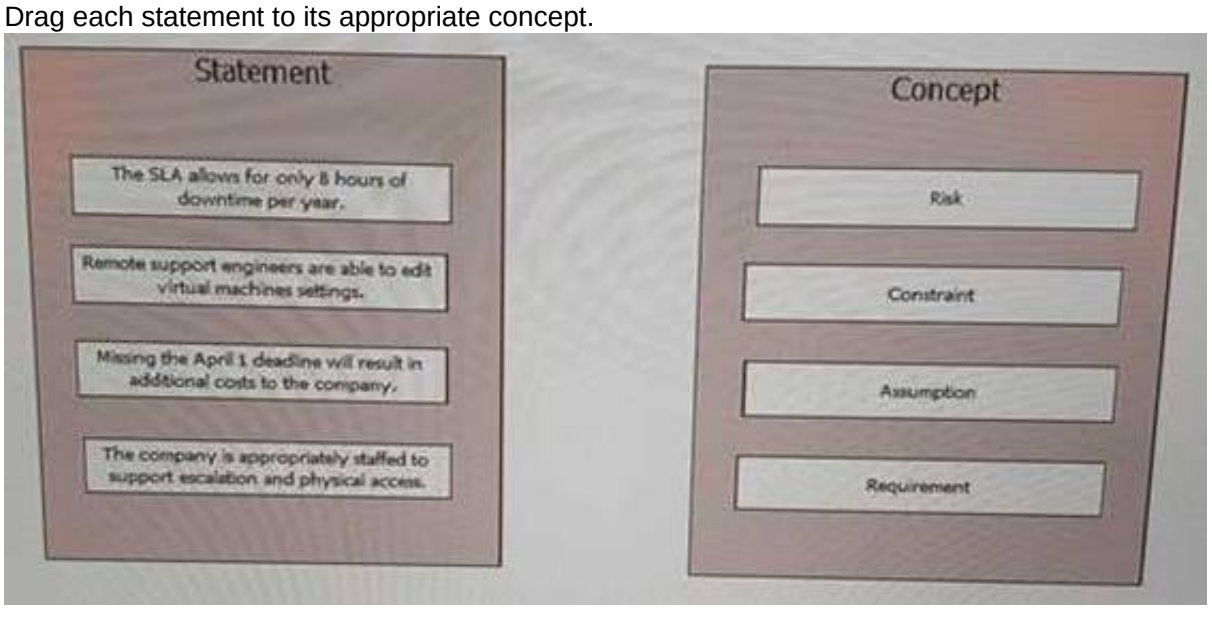
NEW QUESTION 7
When considering server consolidation, plan on running vCPUs per core.

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

Answer: A

NEW QUESTION 8
A company is outsourcing its support operations to an external service provider and plans to complete the project by April 1.
• The external Support engineers must have the ability to power cycle, create, and edit virtual machines settings within their assigned vSphere site.
• The company maintains three vCenter servers in Enhanced Linked Mode that are run as virtual machines in the supported infrastructure.

• The vCenter servers will be supposed by the external service provider.
• Each vCenter server is connected to its own local Platform Services Controller and MSSQL database server.
• The company will provide escalation support and physical access on a per request basis.
• 99.9% ESXi host uptime is required in this environment, but no SLA has been specified for the hosted applications.
Drag each statement to its appropriate concept.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Risk --> Missing the April 1 deadline...
Constraint --> Remote support...
Assumption --> The company is...
Requirement --> The SLA allows for..

NEW QUESTION 9
An organization's security policy requires a design where the ESXi hosts will be manageable only through vCenter Server.
Which two security configurations will help meet this requirement? (Choose two)

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

Answer: AD

NEW QUESTION 10
A company is implementing a new cluster to support its end user desktop workloads.
• The workload is required to support 200 virtual machines.
• Each end-user desktop is configured with two vCPUs, 8GB of RAM, and 40GB of thick-provisioned disk space.
• The architect has expressed concerns that virtual machine swap files will till the 8.5TB datastore available to the cluster.
Which two strategies would address the architect's concern? (Choose two.)

A. Configure an additional datastore for snapshot storage
B. Configure an additional datastore for vswap file storage
C. Configure each virtual machine with a 4GB memory reservation.
D. Configure each virtual machine with a 8GB memory reservation.

Answer: BD

NEW QUESTION 10
A customer is using blade servers with only one HBA.
Which two design concepts apply to this scenario? (Choose two.)

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

Answer: BC

NEW QUESTION 14
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.

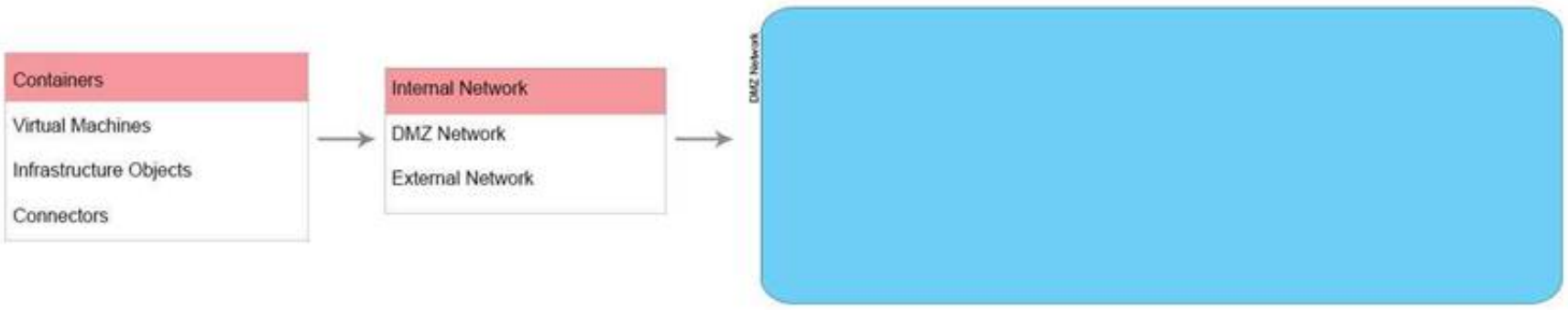
- Internal users currently point to three Client Access Servers for load balancing.
- External users currently point to three Web Client Access Servers for load balancing.
- Customer requires discrete hardware to provide security between internal servers and externally available servers, as well as between externally available servers, and client connections from offsite.

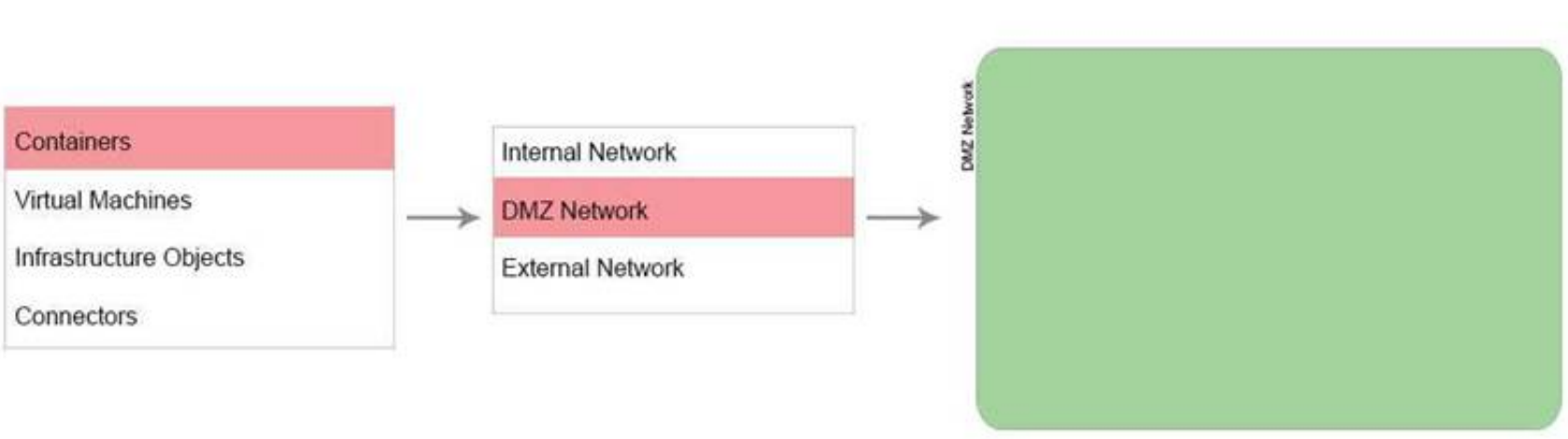
Design Requirements:

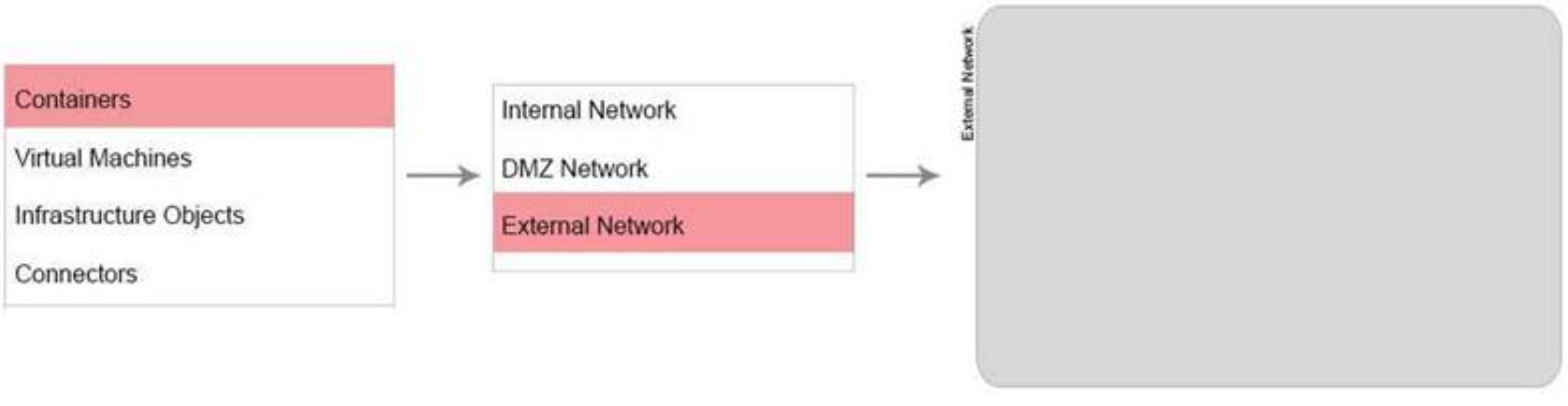
Create a solution that shows the service dependencies required for virtualizing the email application, including:

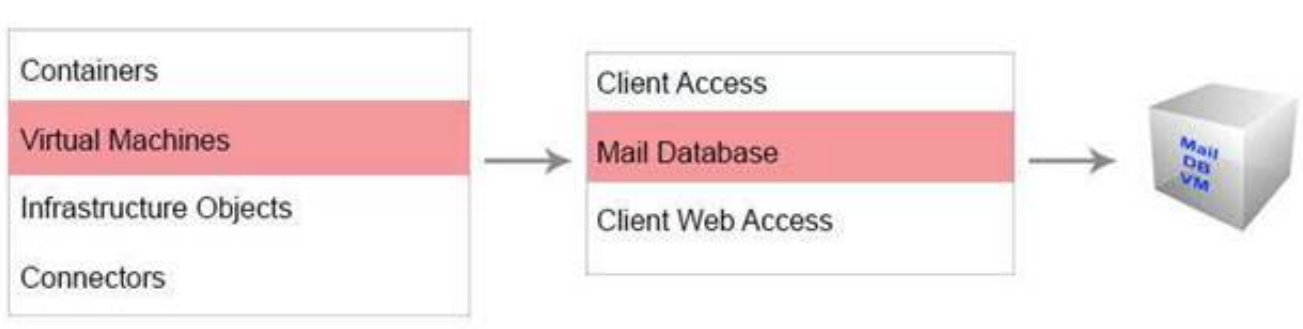
- All required storage for Mail DB VM(s) only
- All required network and security connection(s)
- All required virtual machine(s)
- All required user(s)

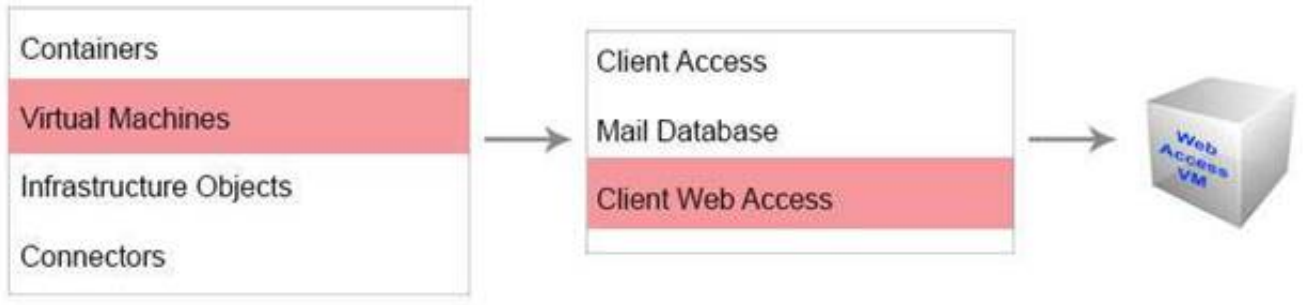
Place all items in required container(s). Connect VMFS datastore(s) to required virtual machine(s). Place disk(s) over the required storage type(s). Connect firewall(s) to container(s).

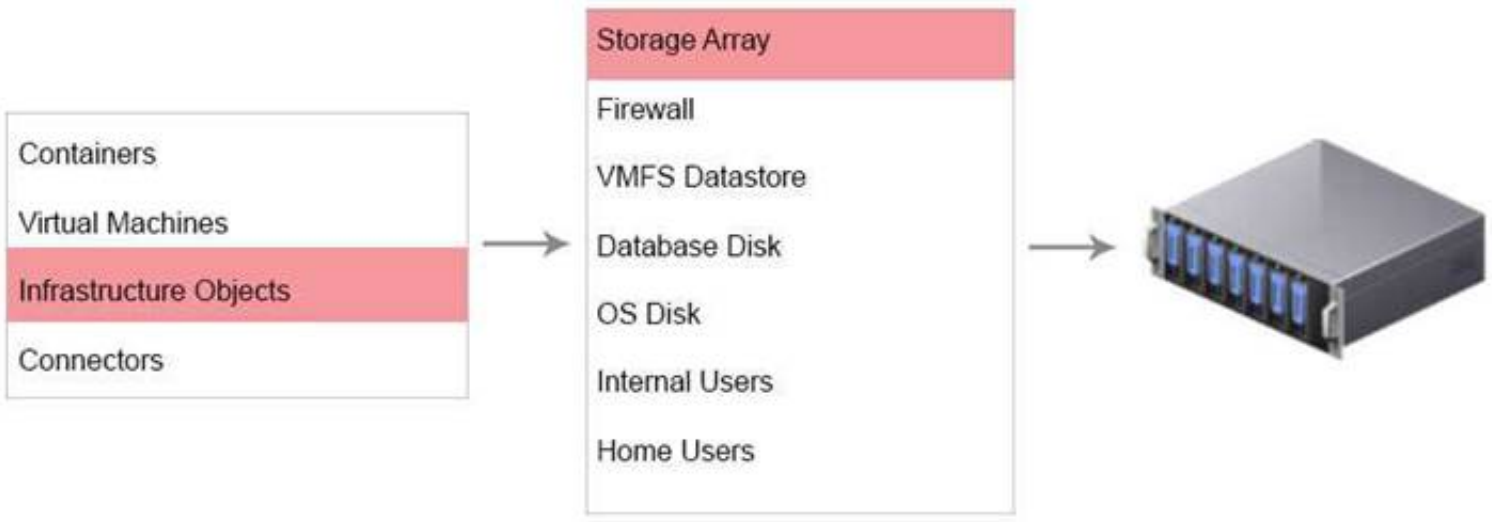








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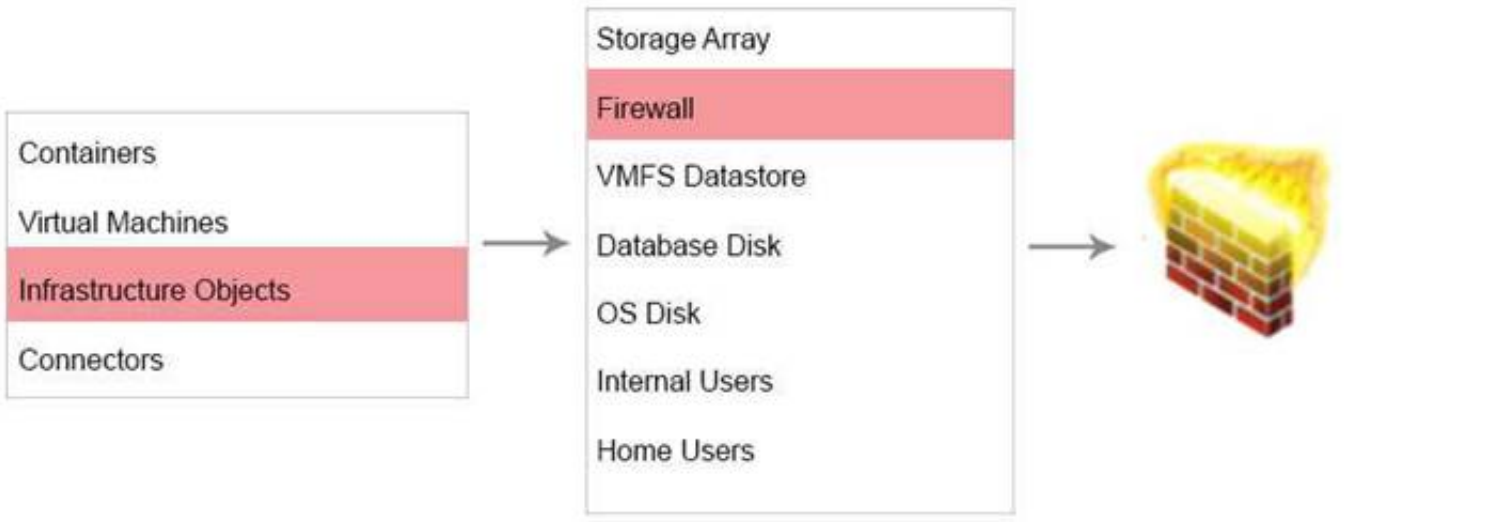
Virtual Machines
Infrastructure Objects
Connectors
Storage Array
Firewall
VMFS Datastore
Database Disk
OS Disk
Internal Users
Home Users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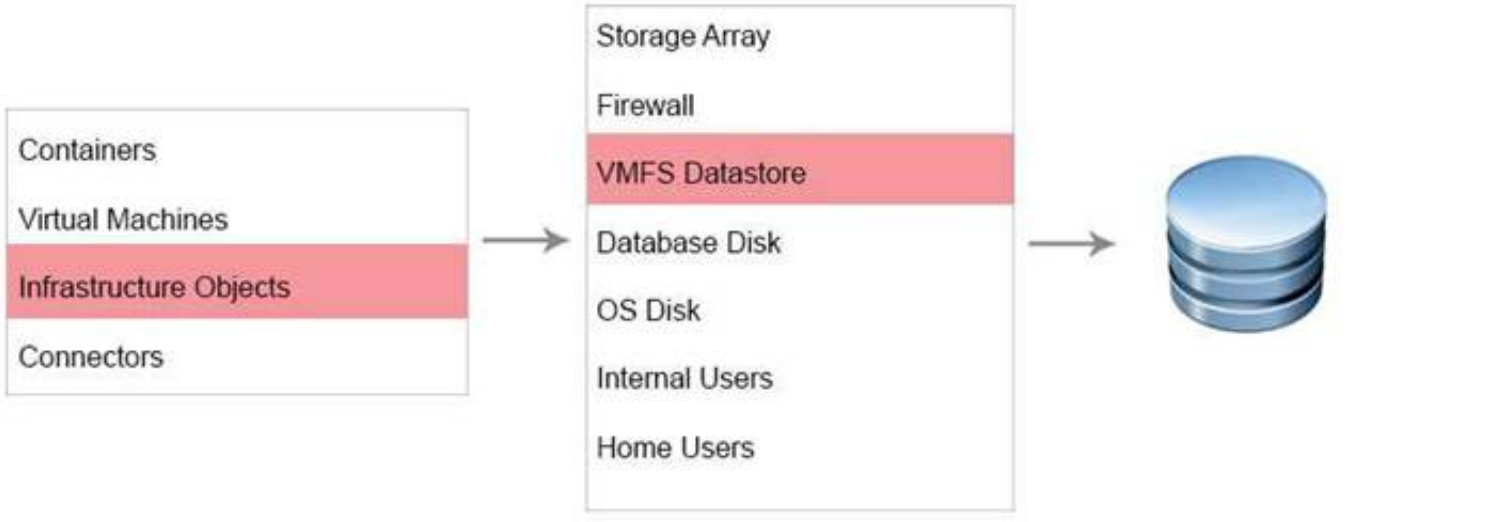
OS Disk
Internal Users
Home Users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Infrastructure Objects
Connectors
Storage Array
Firewall
VMFS Datastore
Database Disk
OS Disk
Internal Users
Home Users

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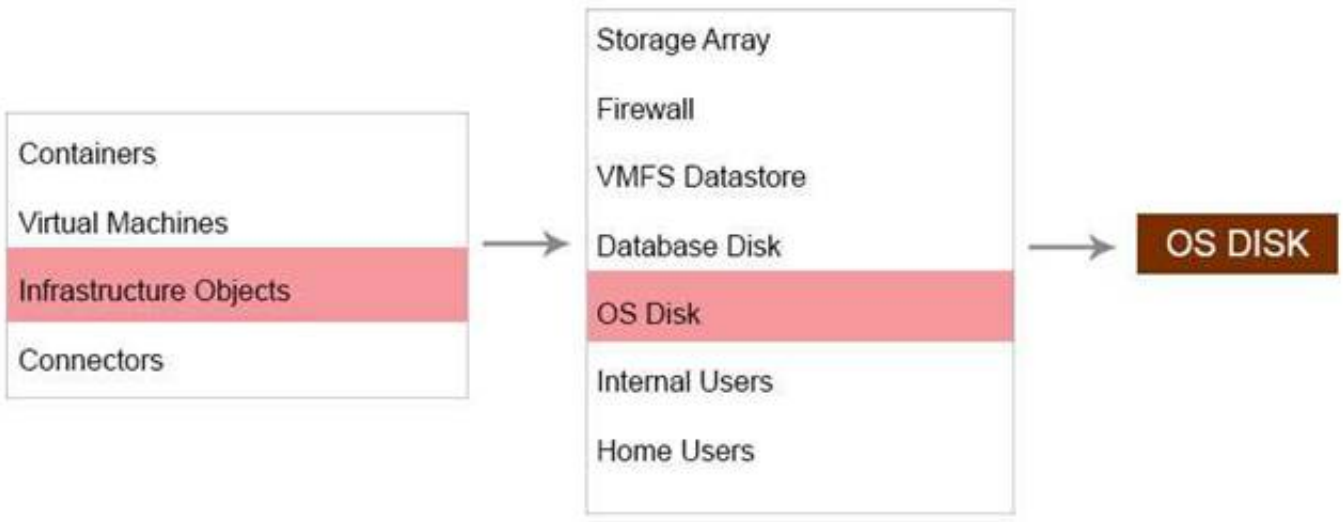
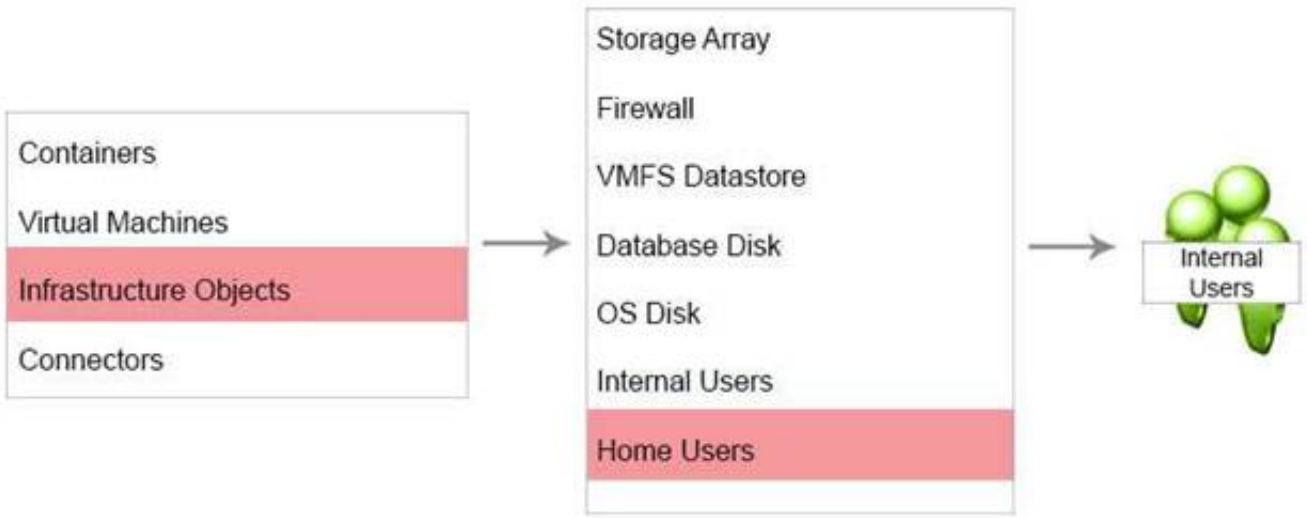
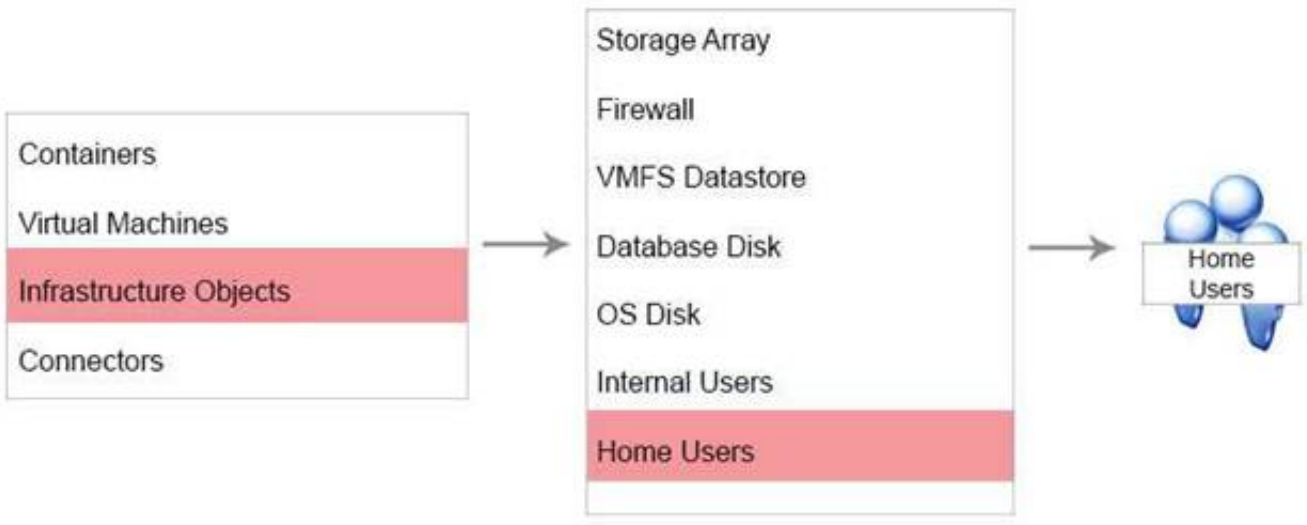
Infrastructure Objects
Connectors
Storage Array
Firewall
VMFS Datastore
Database Disk
OS Disk
Internal Users
Home Users
DB DISK



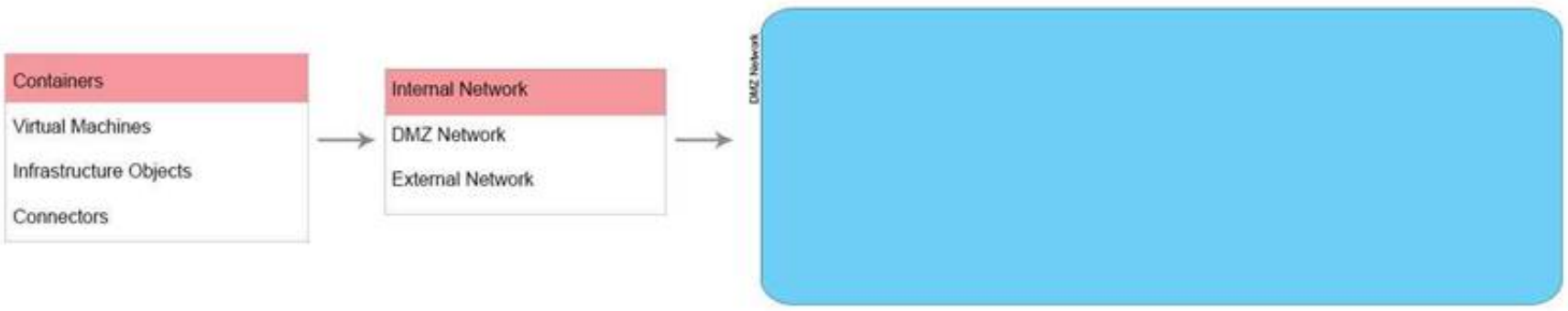




A. Mastered
B. Not Mastered

Answer: A

Explanation:
Check below for answer solution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Infrastructure Objects
Connectors
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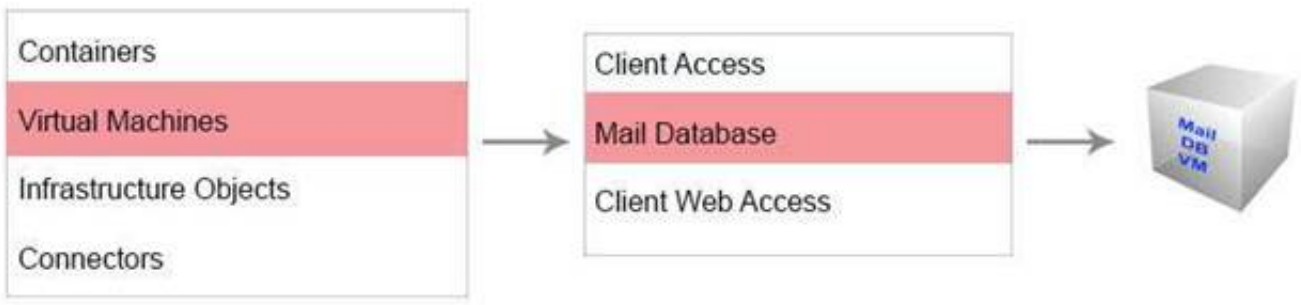
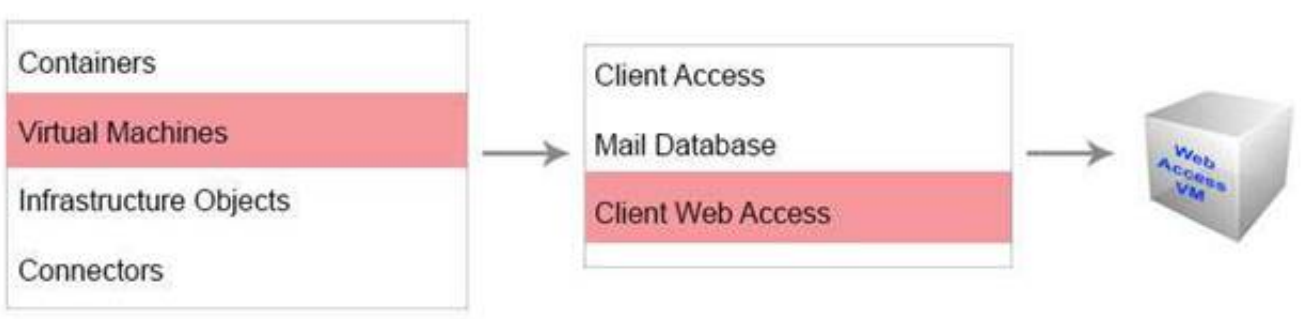
DMZ Network
External Network
DMZ Network


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


Containers
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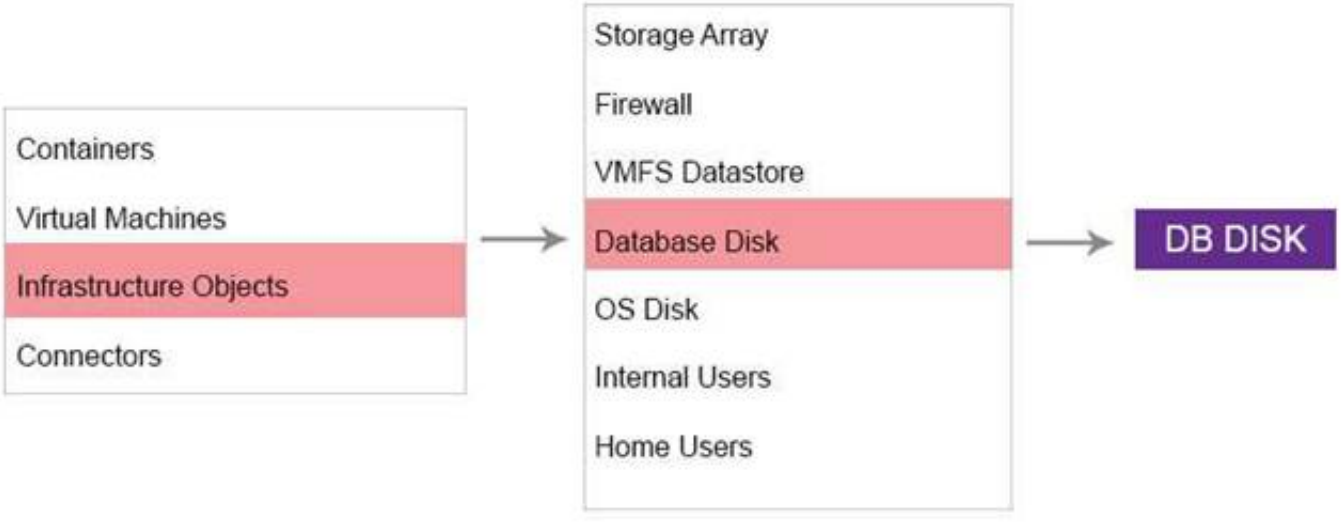
Mail Database
Client Web Access
Web Access VM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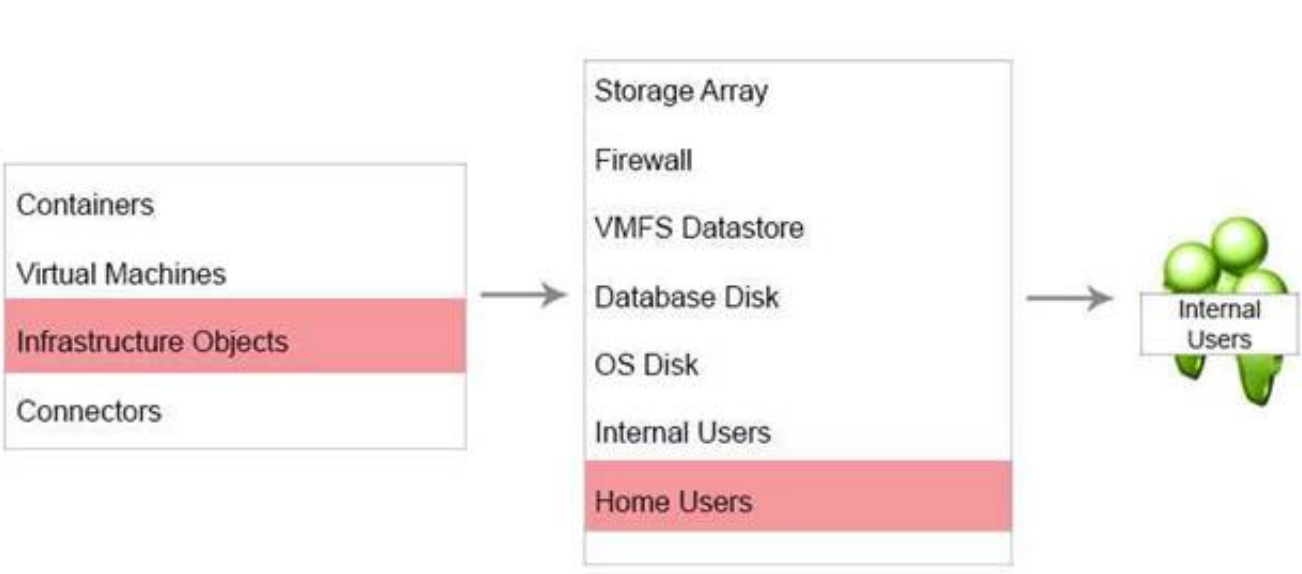
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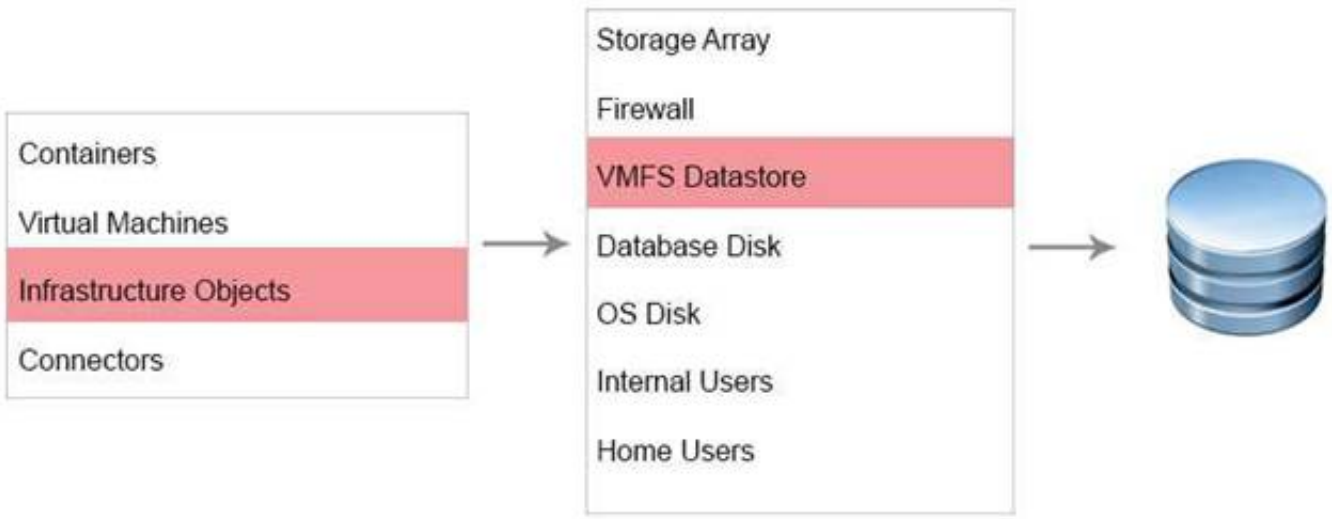
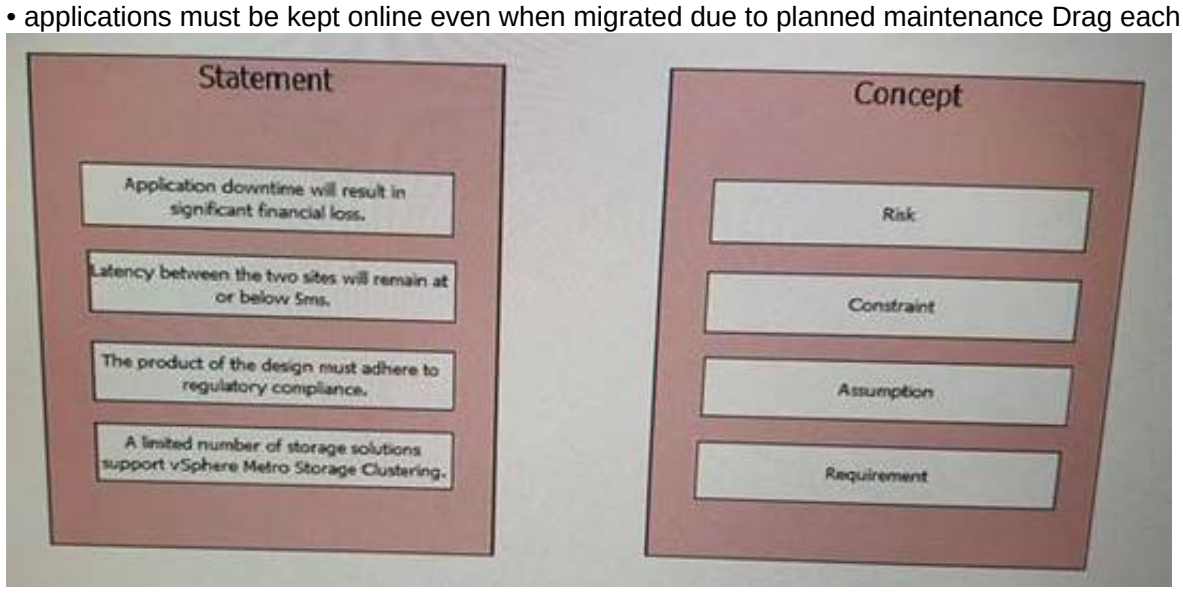


NEW QUESTION 16
A company is in the process of deploying a modern video-streaming application.
• The application is able to scale (expand and collapse) its steaming nodes in the form of CentOS 7.x 64bit virtual machines, based on demand.
• This IO-Intensive application has a high CPU demand and generates a significant number of disk operations (IOPS).
• To host the application, the company decided to implement a brand-new VMware cluster with vSphere 6.5
• The company would like a significant reduction in CPU utilization as well as a possible increase in throughput.
Which virtual disk adapter should be recommended for the company's physical design?

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

Answer: B

NEW QUESTION 21
A global financial company has requested assistance with a new cross-site failover design between two sites which will support business critical applications.
Latency between the sites is less than 5ms round-trip.
The company requires:
• application must be restarted quickly in the event of a total site failure
• allow for planned migration during maintenance
• applications must be kept online even when migrated due to planned maintenance Drag each statement to its correct concept



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Risk--> App downtime..
Constraint --> The product of the desing must...

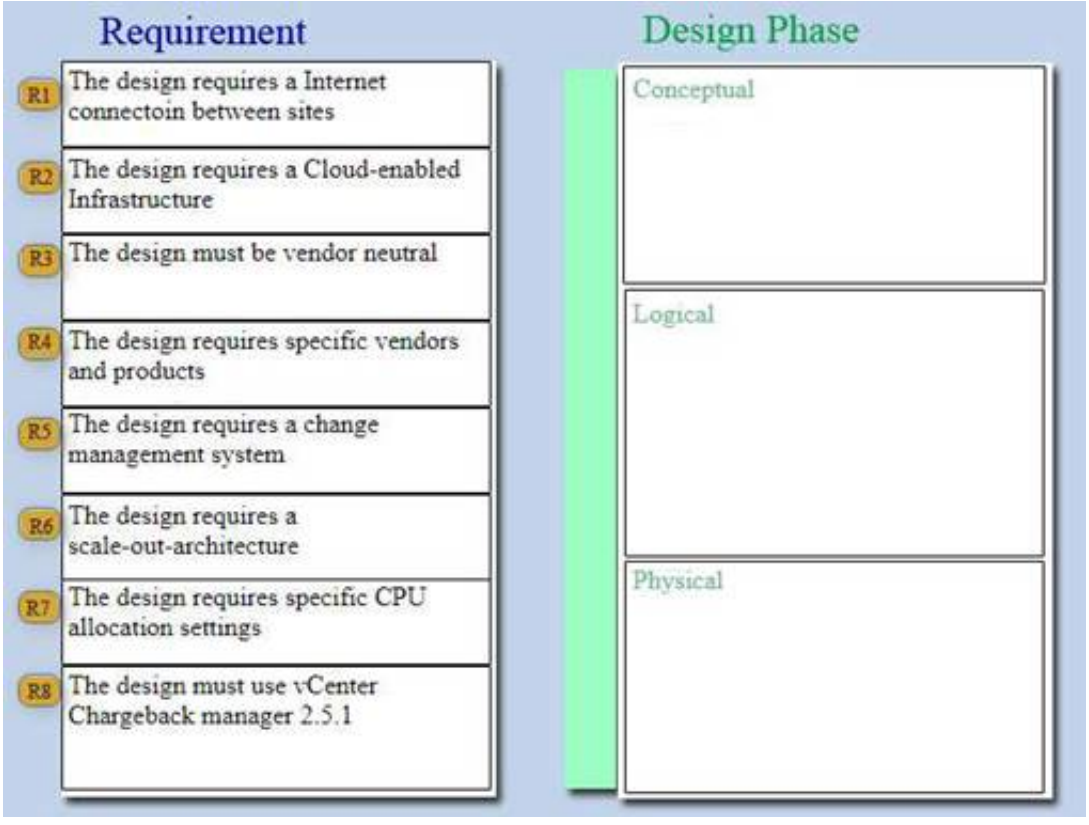
Assumption --> A limited number of storage...
Requirement --> Latency between the two sites...

NEW QUESTION 26
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

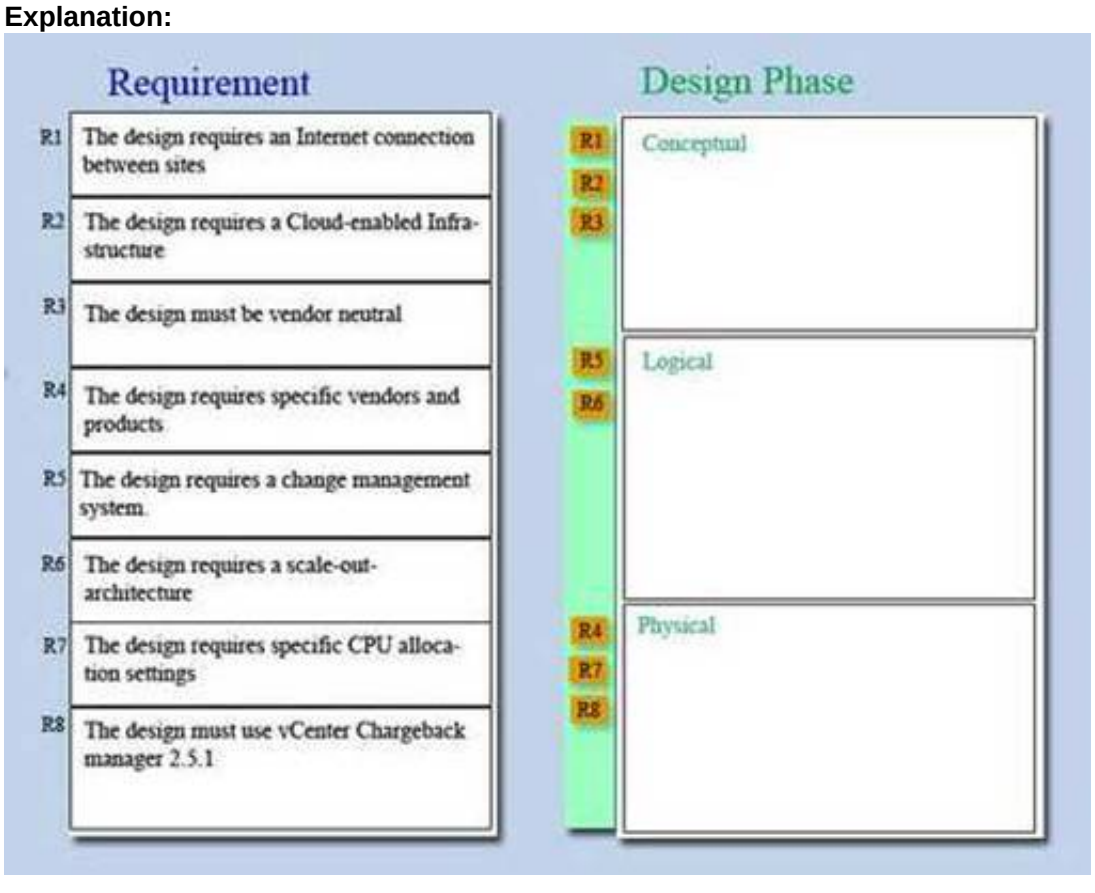
NEW QUESTION 31
You have been provided with a list of requirements for a vSphere Design. For each requirement, categorize the requirement as a component of the conceptual, logical, or physical design.
Drag a requirement button (R1-R8) over to the green space provided beside the corresponding Design Phase.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 35
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.l
C. FCoE
D. iSCSI

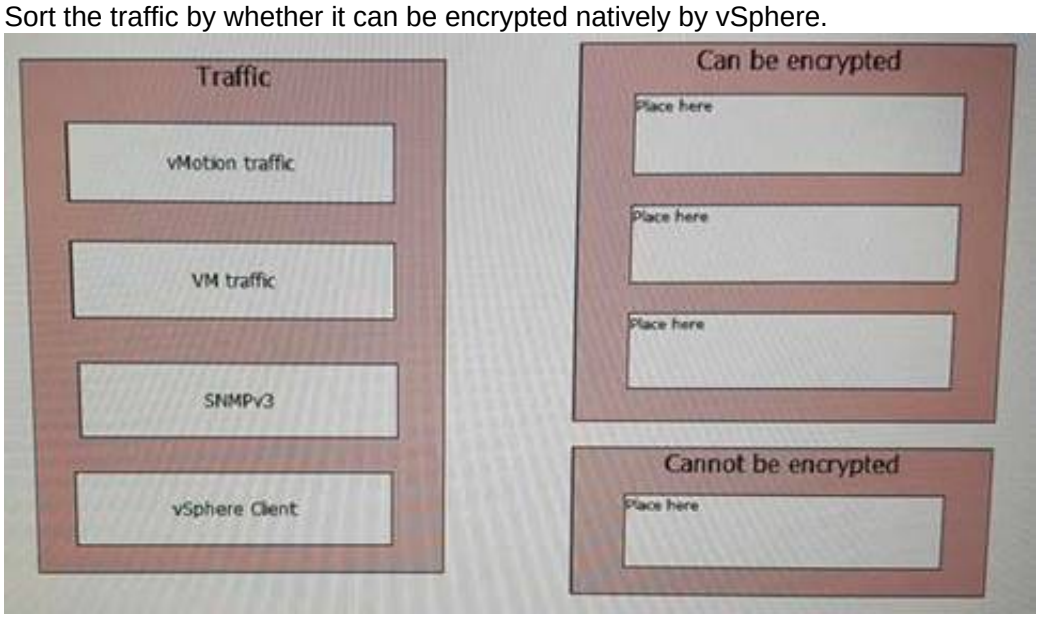
Answer: B

NEW QUESTION 38
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 OpteronTM "Steamroller" Generation Cluster 2• ESXi 6.5• AMD Steamroller CPUs• EVC Enabled: AMD OpteronTM “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 OpteronTM "Piledriver" Generation Cluster 2• ESXi 6.5• AMD Steamroller CPUs• EVC Enabled: AMD OpteronTM “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 39
Sort the traffic by whether it can be encrypted natively by vSphere.

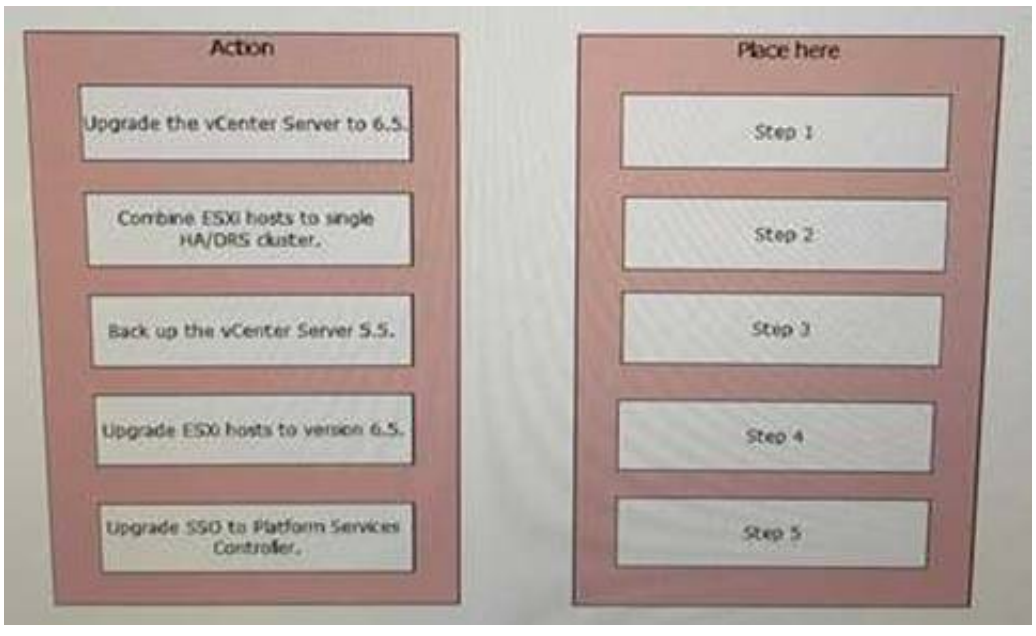


A. Mastered
B. Not Mastered

Answer: A

Explanation:
vmotion--> it is supportedsnmpv3 --> Natively supports message integrity, auth and encryptionvsphere client --> Using IPSec for IPv6

NEW QUESTION 42
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 vSphete 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 44
A customer has requested a high availability option for its data center in the event of power failure and the loss of connectivity to a virtual machine.
Which three vSphere features support fault tolerance? (Choose three.)

A. HA
B. Virtual volume datastore
C. vMotion
D. Storage-based policy management
E. DRS
F. Virtual machine snapshots

Answer: ACE

NEW QUESTION 46
A customer is deploying a mission-critical Oracle database with high SLA requirements, including high performance and high availability. The customer has chosen to purchase an All-Flash vSAN solution.
Which three storage policies should be used? (Choose three.)

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

Answer: CDE

NEW QUESTION 49
Which of the following needs to be considered when determining the amount and size of thehosts required for a virtual design?

A. Aggregate CPU and memory requirements
B. Future growth
C. Number of vCPUs to be hosted per box
D. All of the above

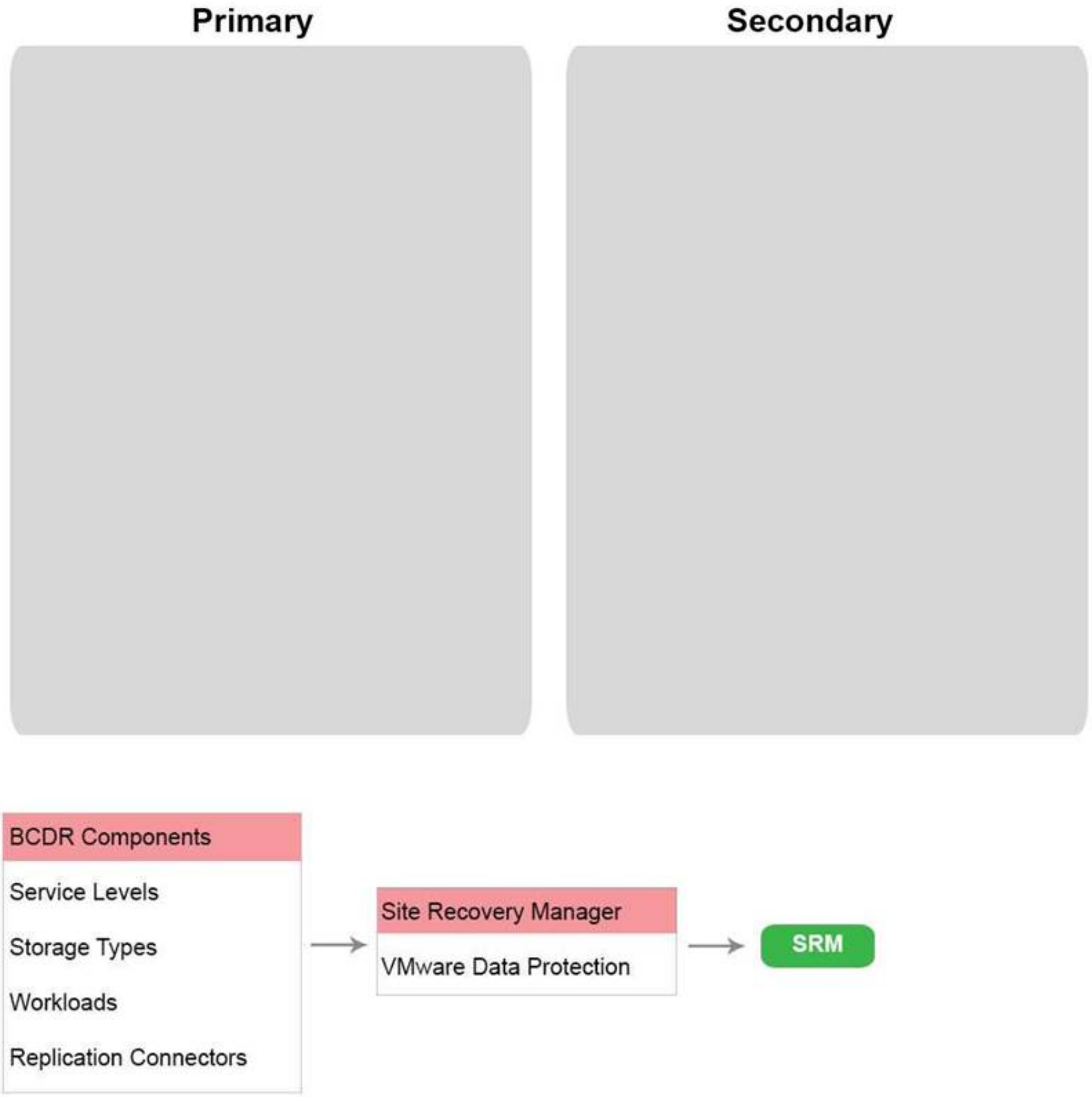
Answer: D

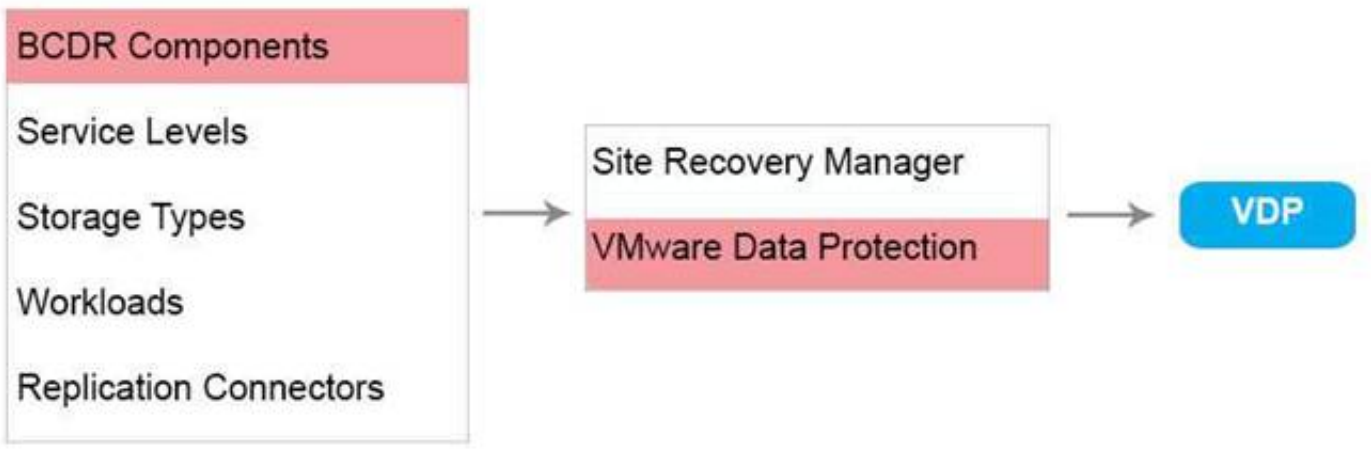
NEW QUESTION 53
A solution architect has been tasked with designing a new environment for a company's growing needs, and has obtained this information:
• Uptime is critical during regular business hours when 95% of the transactions occur. Application uptime must be 99.9% during those hours.
• In a true 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 contact 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.)

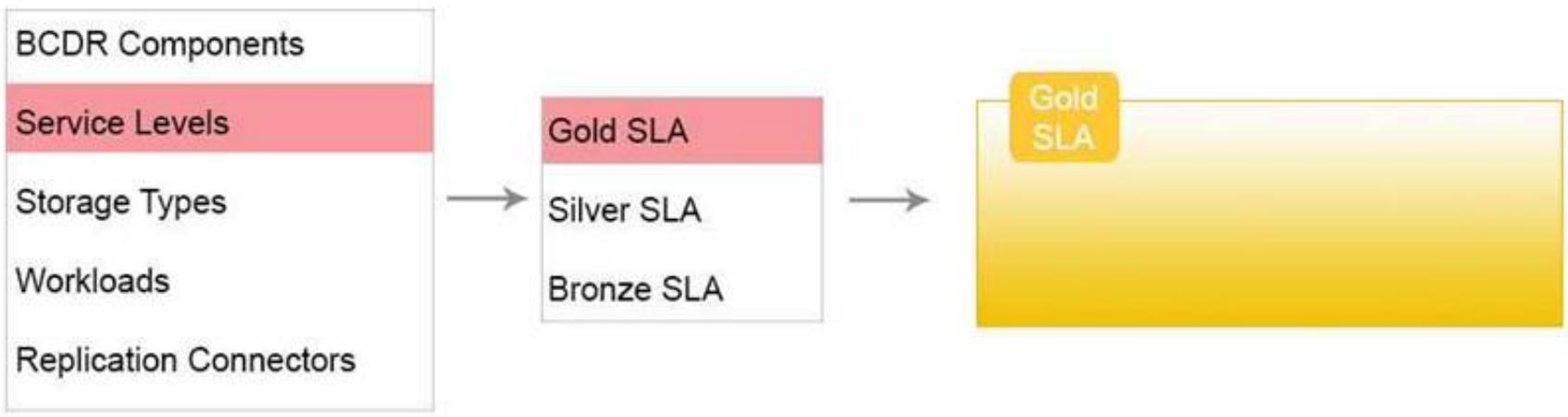
A. RTO of 24 hours.
B. RTO of 12 hours.
C. The application must be available 99.9% during business hours.
D. 11KVA of power is available per rack.

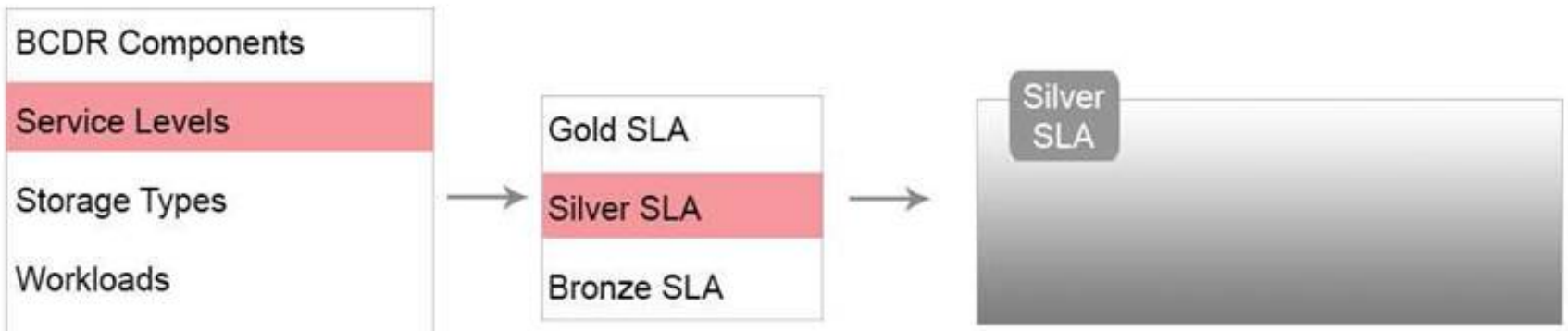
Answer: BC

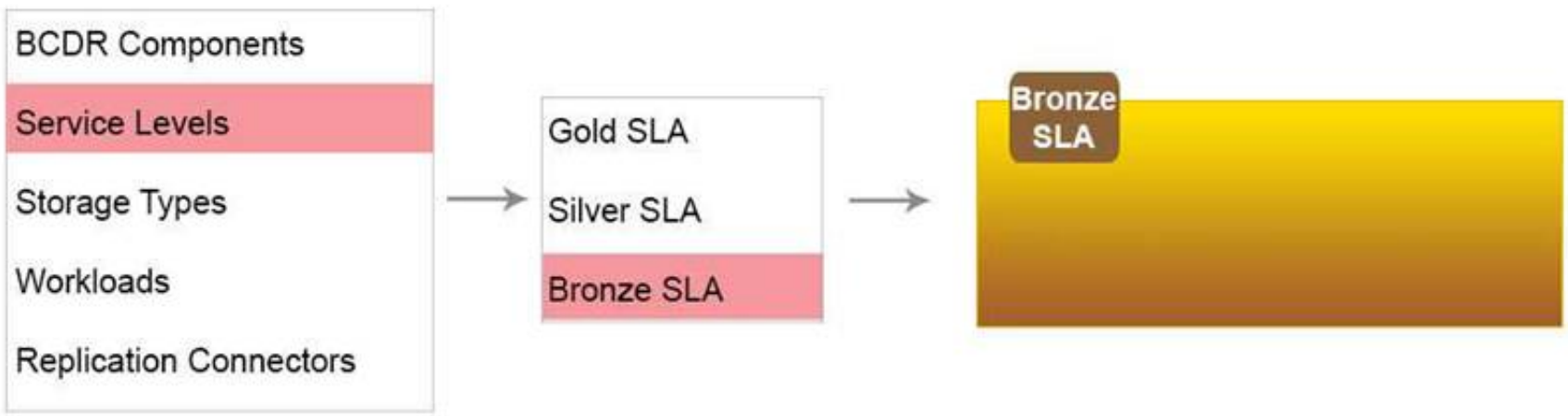
NEW QUESTION 57
Customer Requirements:
You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has provided a number of Business Continuity and Disaster Recovery (BC/DR) requirements to meet their established Service Level Agreements (SLAs). The preliminary 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.




BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Site Recovery Manager
VMware Data Protection
VDP


BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Gold SLA
Silver SLA
Bronze SLA
Gold SLA


BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Gold SLA
Silver SLA
Bronze SLA
Silver SLA


BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Gold SLA
Silver SLA
Bronze SLA
Bronze SLA

BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors

→ Flash Storage
SAS Storage with vFlash
SATA RAID5 Storage

→
Flash Storage

BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors

→ Flash Storage
SAS Storage with vFlash
SATA RAID5 Storage

→
SAS with vFlash

BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors

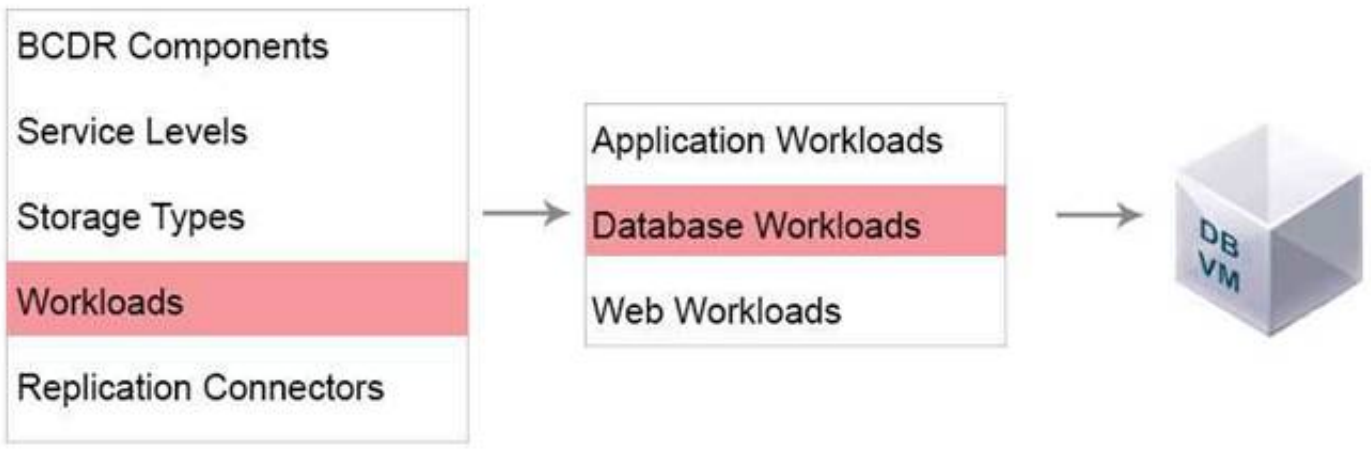
→ Flash Storage
SAS Storage with vFlash
SATA RAID5 Storage

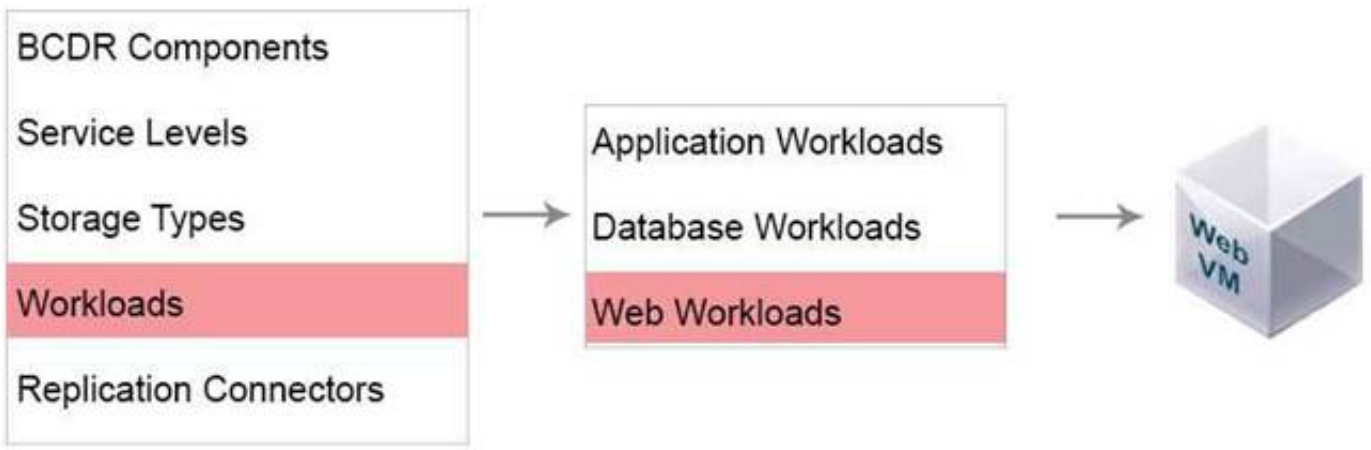
→
SATA RAID 5

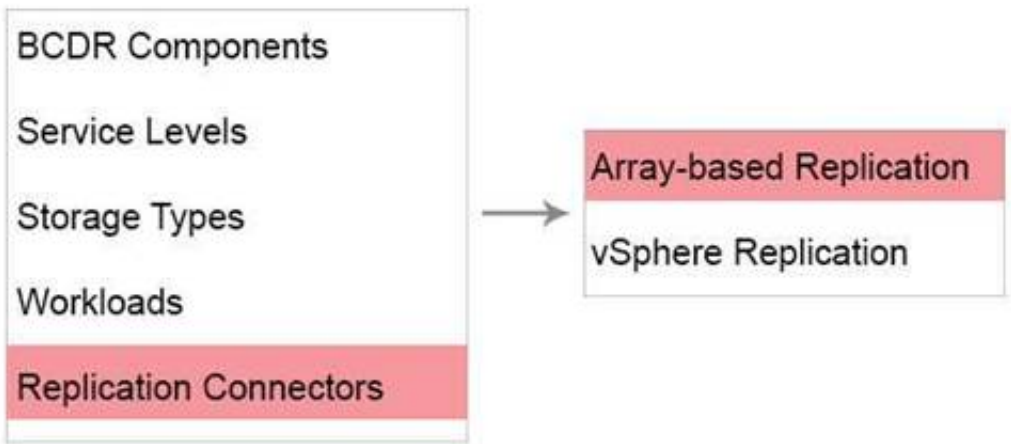
BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors

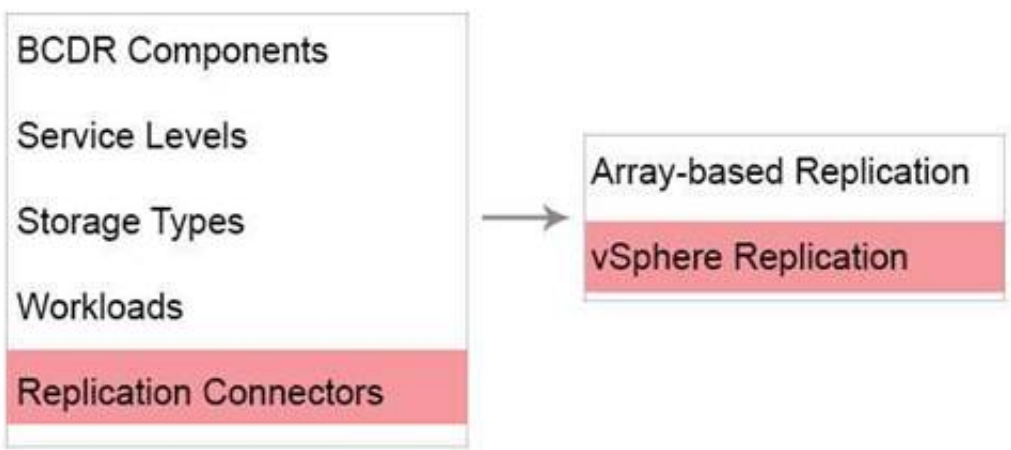
→ Application Workloads
Database Workloads
Web Workloads

→





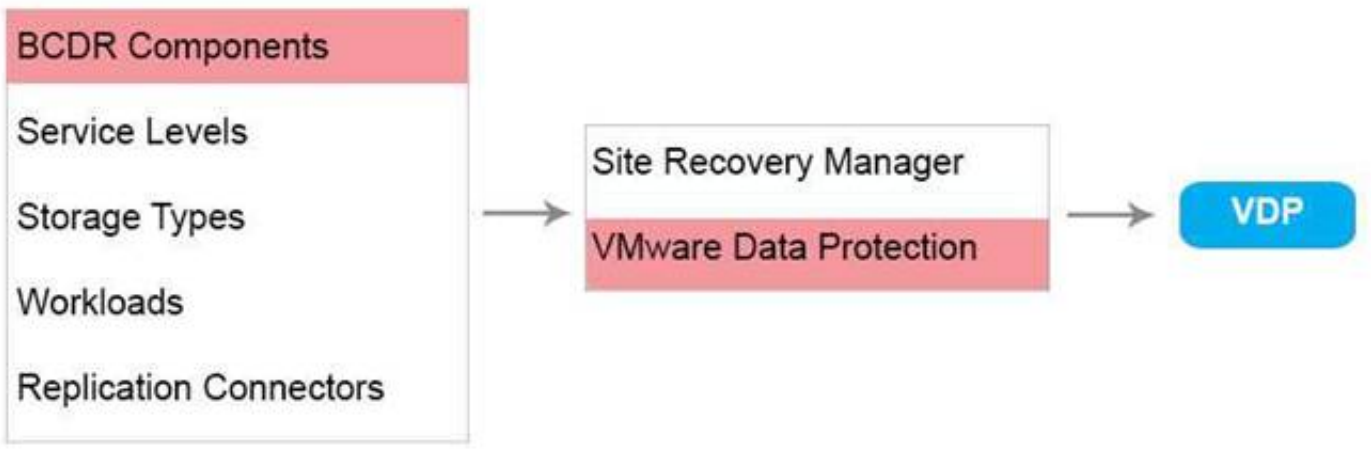


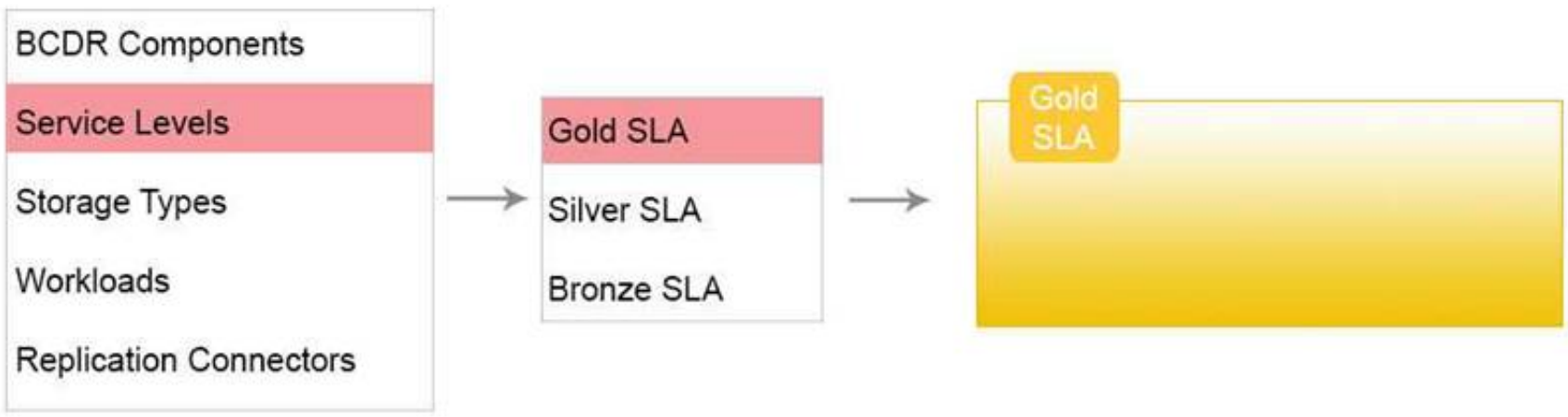


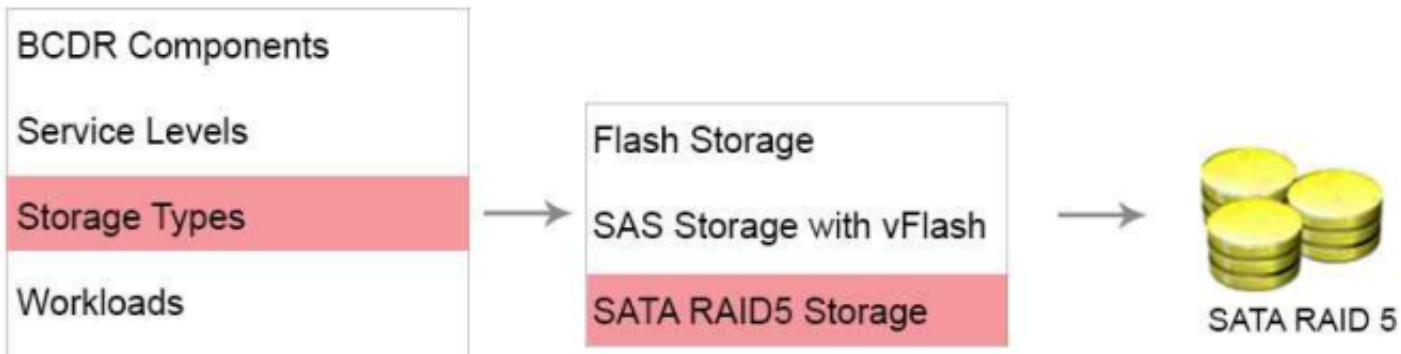
A. Mastered
B. Not Mastered

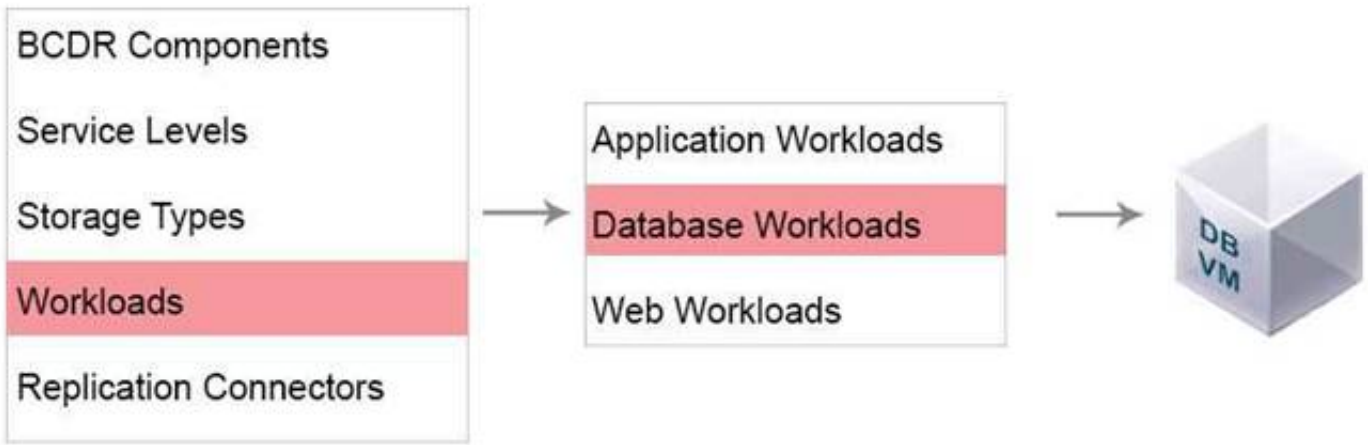
Answer: A

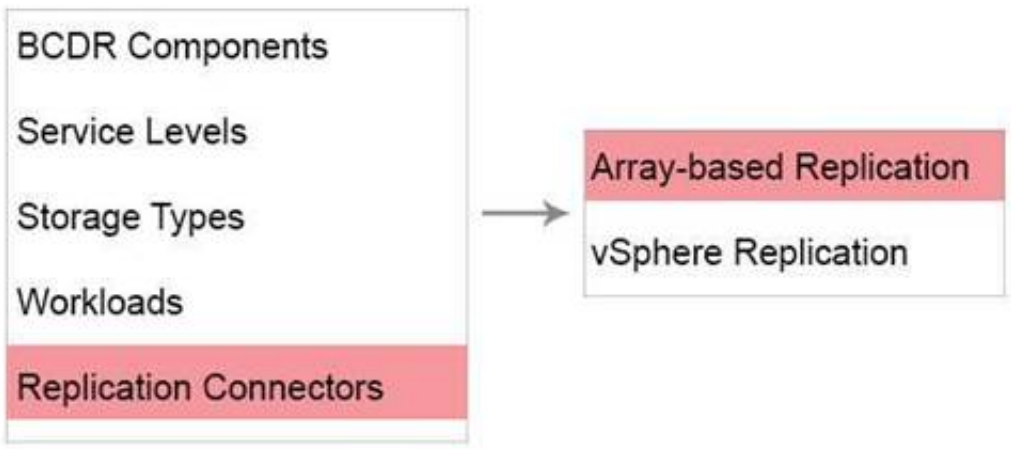
Explanation:
Check below for answer solution Primary

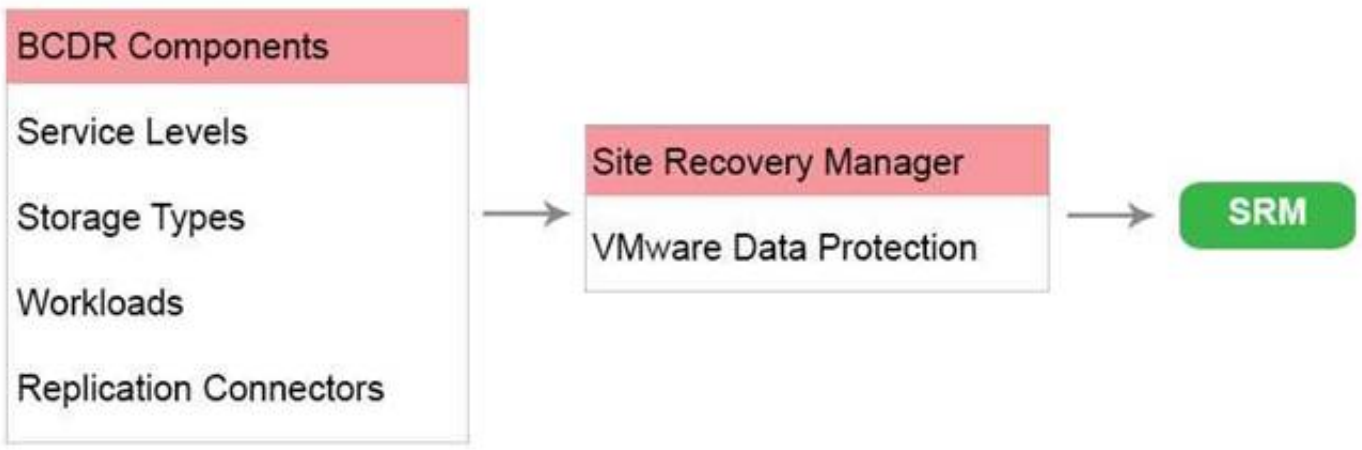

BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Site Recovery Manager
VMware Data Protection
VDP

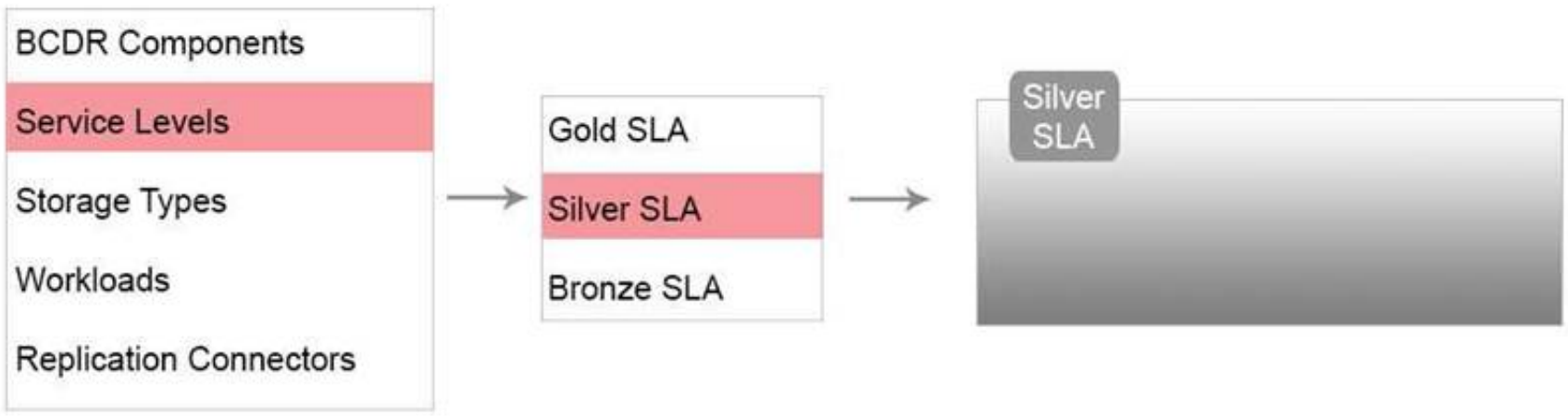

BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Gold SLA
Silver SLA
Bronze SLA
Gold SLA

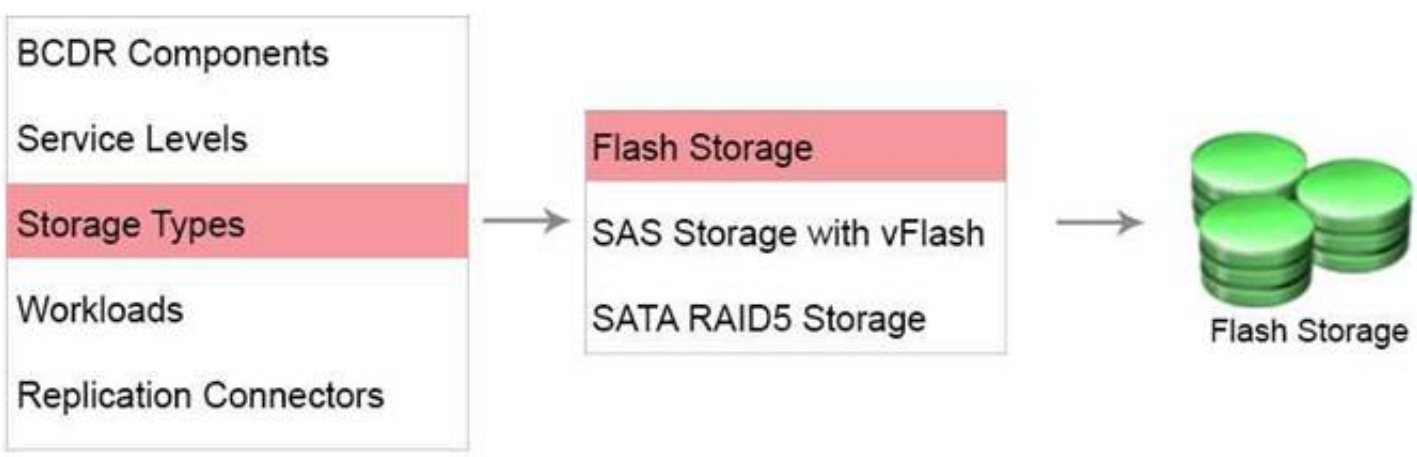

BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Flash Storage
SAS Storage with vFlash
SATA RAID5 Storage
SATA RAID 5

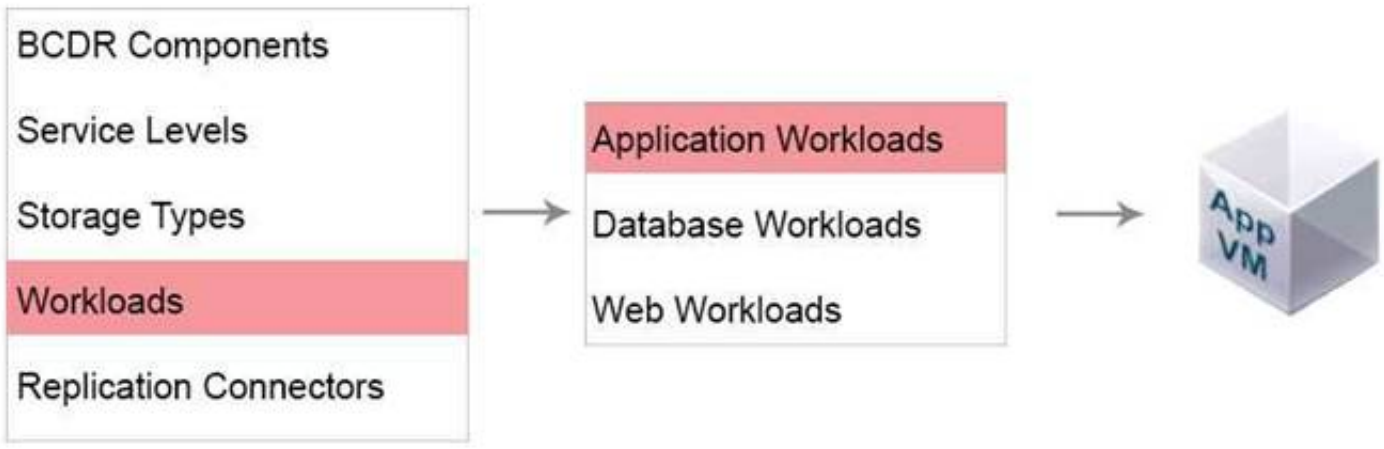

BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Application Workloads
Database Workloads
Web Workloads
DB
VM


BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Array-based Replication
vSphere Replication

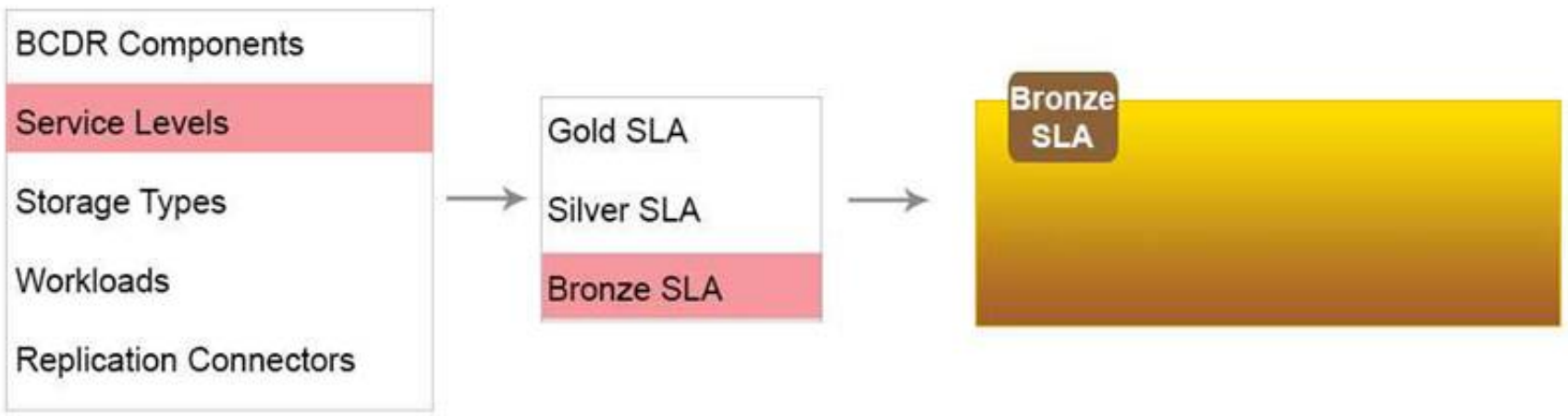

BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Site Recovery Manager
VMware Data Protection
SRM


BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Gold SLA
Silver SLA
Bronze SLA
Silver SLA


BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Flash Storage
SAS Storage with vFlash
SATA RAID5 Storage
Flash Storage


BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Application Workloads
Database Workloads
Web Workloads
App VM

Secondary


BCDR Components
Service Levels
Storage Types
Workloads
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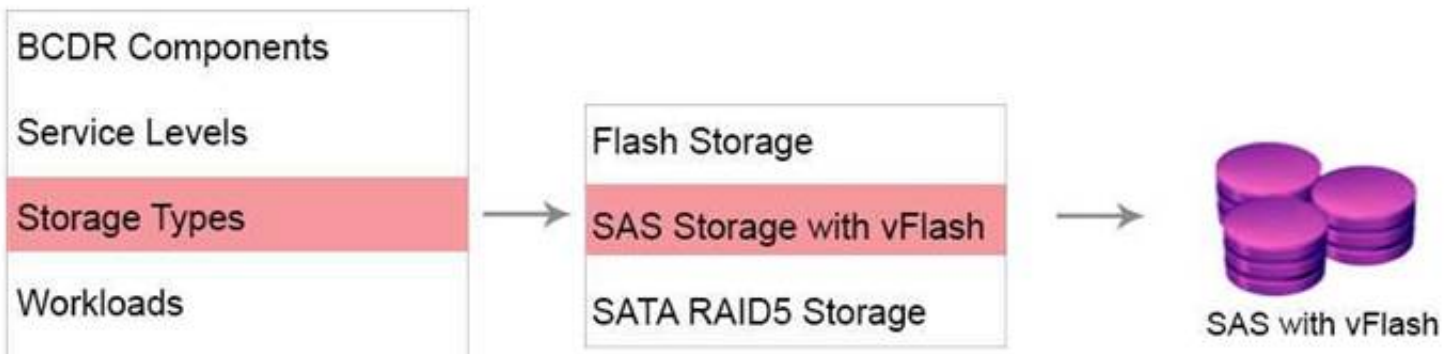
Gold SLA
Silver SLA
Bronze SLA
Bronze SLA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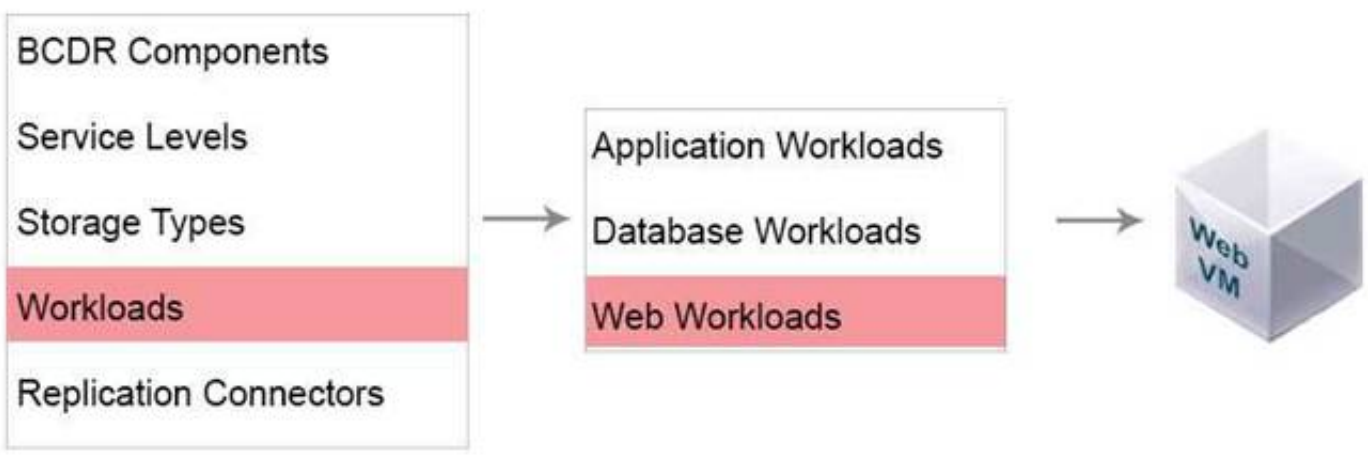
Flash Storage
SAS Storage with vFlash
SATA RAID5 Storage
SAS with vFlash


BCDR Components
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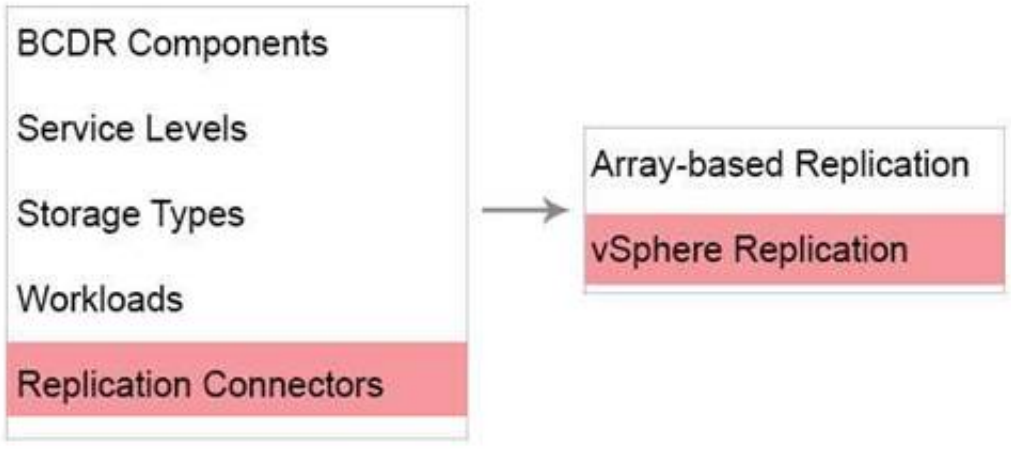
Database Workloads
Web Workloads
Web VM



NEW QUESTION 60
What topics need to be considered when creating a storage design?

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

Answer: D

NEW QUESTION 62
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