

Exam Questions 3v0-624

VMware Certified Advanced Professional 6.5 - Data Center Virtualization Design Exam

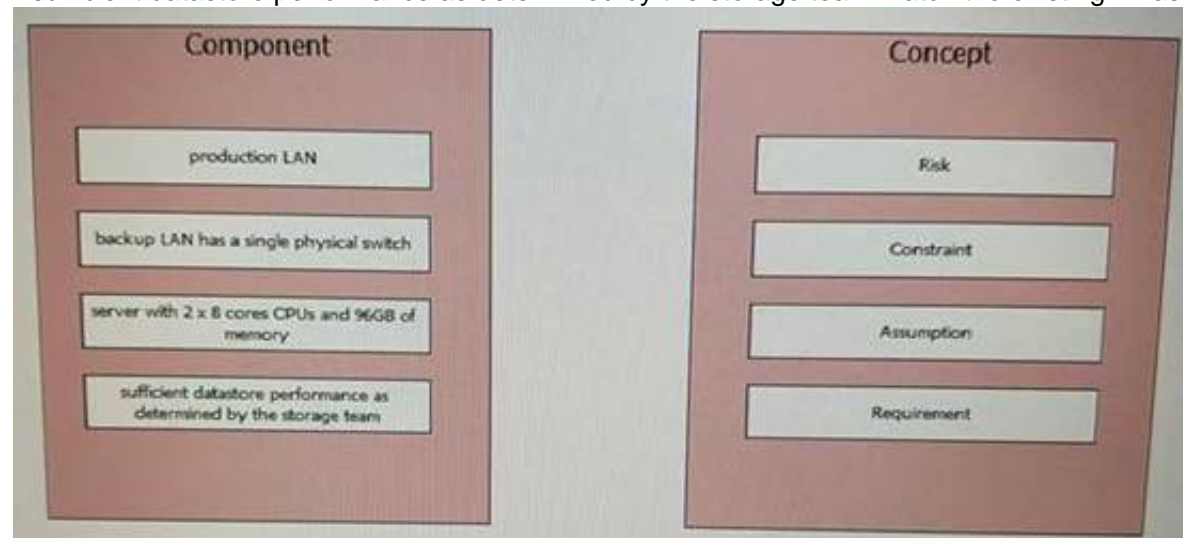
<https://www.2passeasy.com/dumps/3v0-624/>



NEW QUESTION 1

A company 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

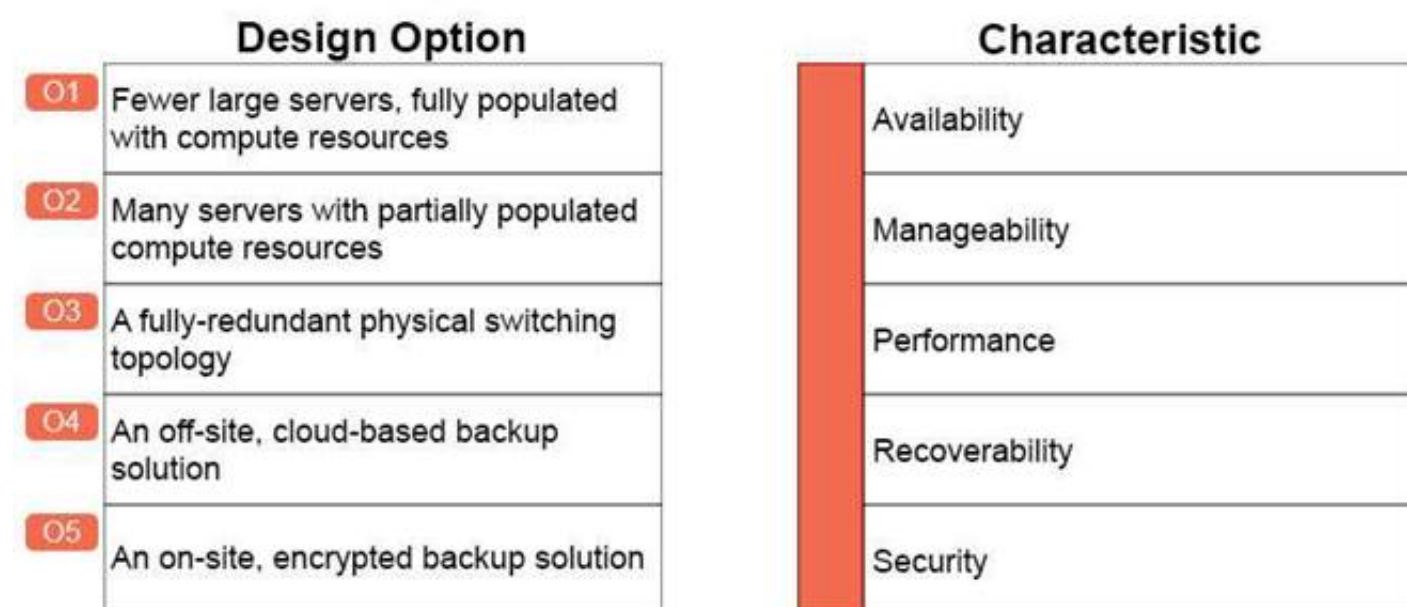
Requirement = Production LAN

NEW QUESTION 2

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

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

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



- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Design Option	Characteristic
O1 Fewer large servers, fully populated with compute resources	Availability O2 O3
O2 Many servers with partially populated compute resources	Manageability O1
O3 A fully-redundant physical switching topology	Performance O5
O4 An off-site, cloud-based backup solution	Recoverability O1 O3
O5 An on-site, encrypted backup solution	Security O4

NEW QUESTION 3

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 4

A customer wants to virtualize an Oracle database with vSphere 6.5, but is concerned about its performance. Which three design elements will ensure optimum performance? (Choose three.)

- A. Share as much memory as possible with the balloon driver.
- B. Use VMXNET3 for the network adapter.
- C. Create affinity rules for the virtual machine to a single physical socket.
- D. Use VMware Paravirtual SCSI adapters for data and log vDisk.
- E. Enable Hyper-Threading

Answer: BDE

NEW QUESTION 5

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

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

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

Answer: BC

NEW QUESTION 6

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

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

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

Answer: AD

NEW QUESTION 7

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 8

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 9

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 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 fill 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

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

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

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

Database Requirements

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

Design Characteristics

Availability
Manageability
Performance
Recoverability
Security

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Database Requirements

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

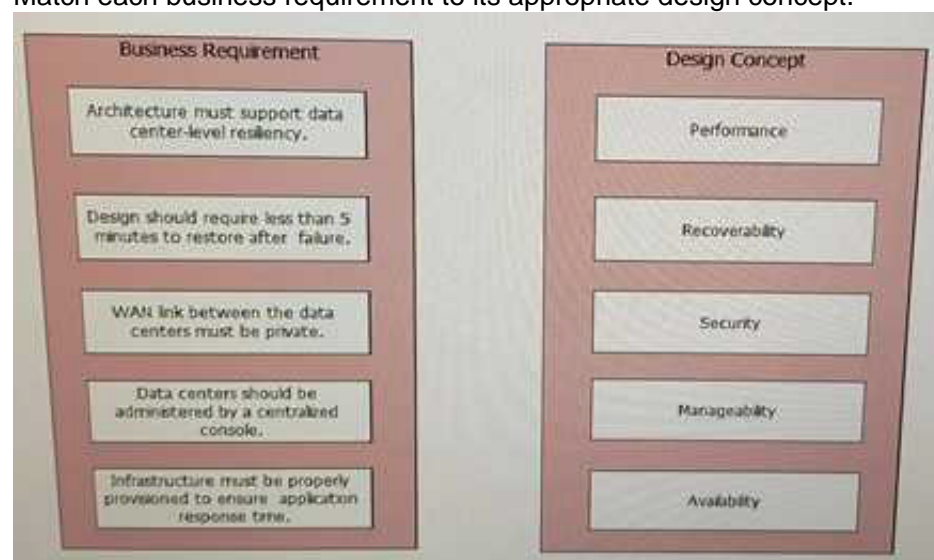
Design Characteristics

Availability	R3
Manageability	R1
Performance	R2 R5
Recoverability	R4
Security	

NEW QUESTION 12

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 16

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

Which VMware technology must be used to meet this requirement?

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

Answer: A

NEW QUESTION 21

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 26

You are a platform designer constructing a physical design from an existing approved logical design. Out of the vendor proposals, there are two proposed solutions that could be used. Which of the following options is the most important factor when making a decision?

- A. Community and vendor-based best practices
- B. Existing vendor relationships
- C. Project requirements
- D. Project budget

Answer: C

NEW QUESTION 28

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.

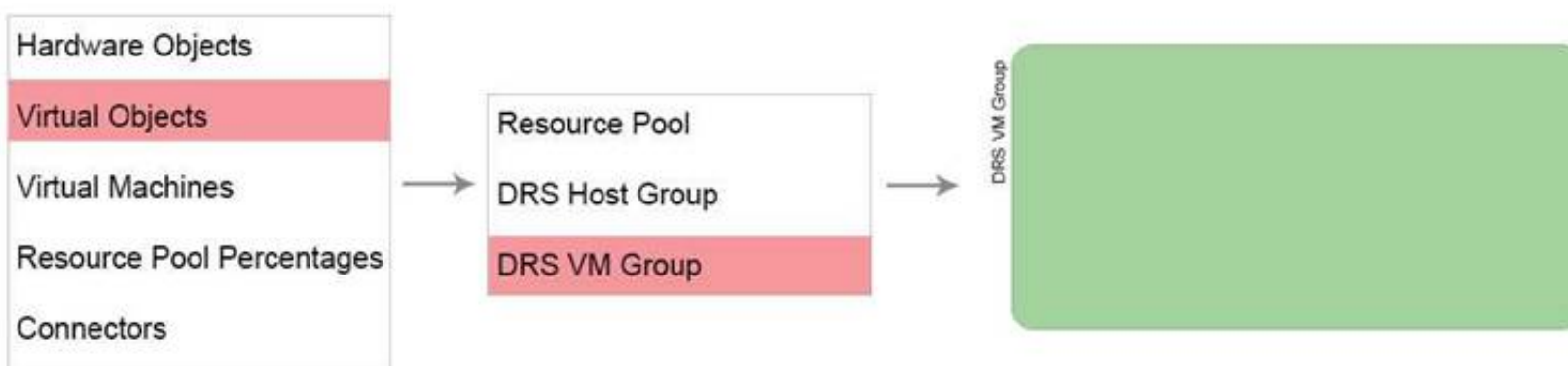
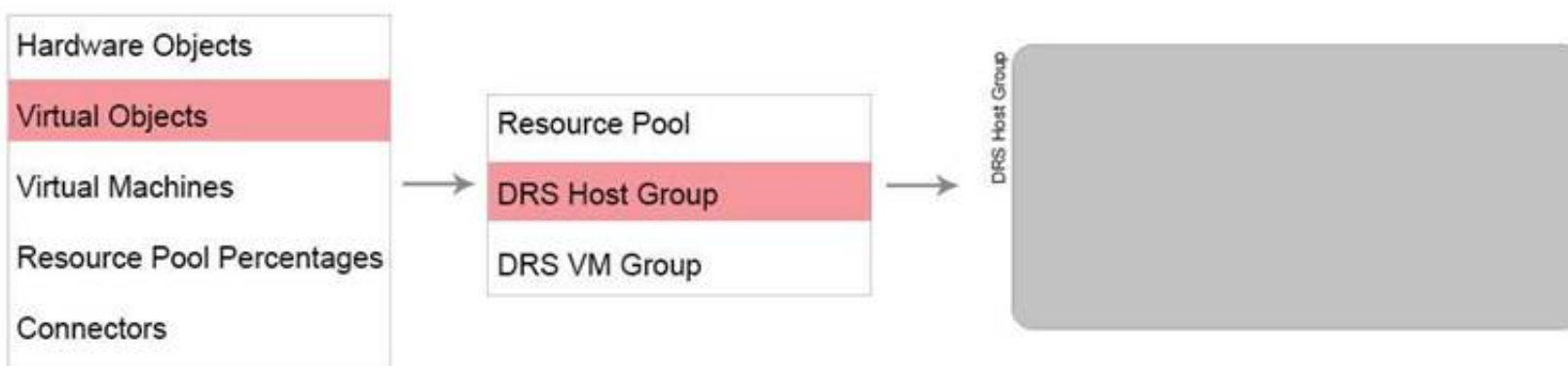
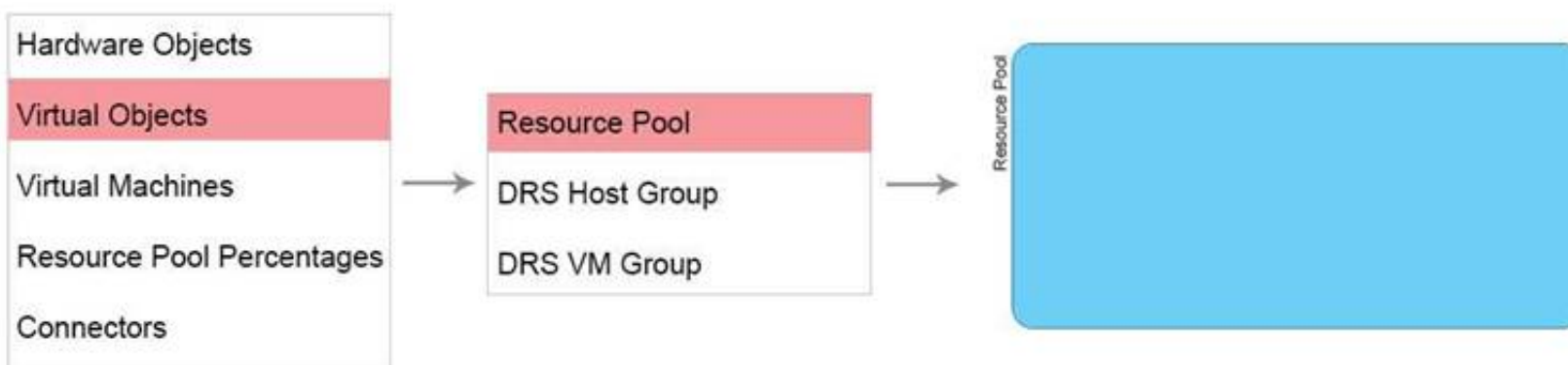
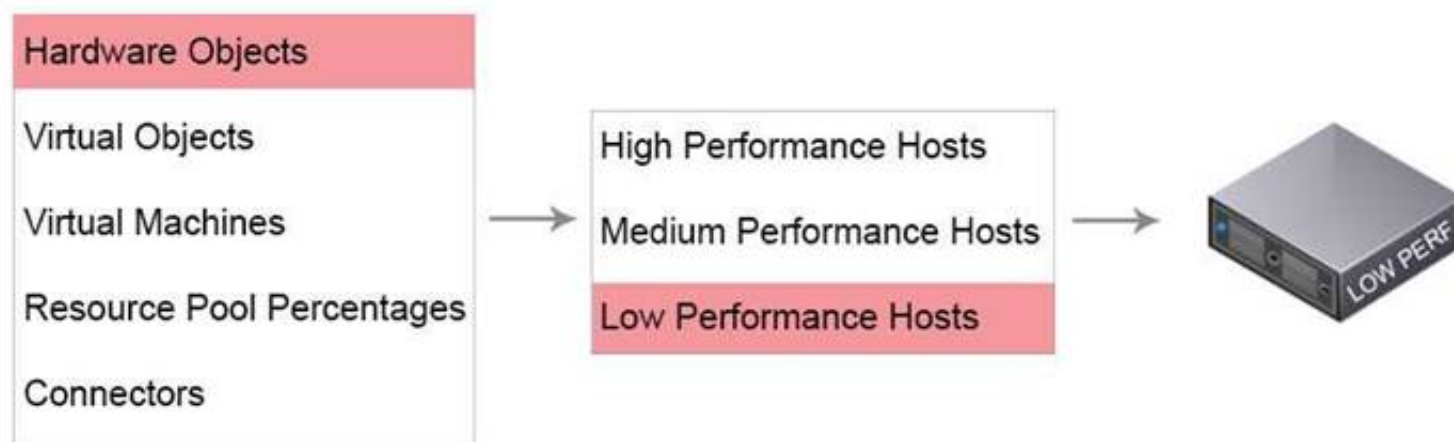
Design Requirements:

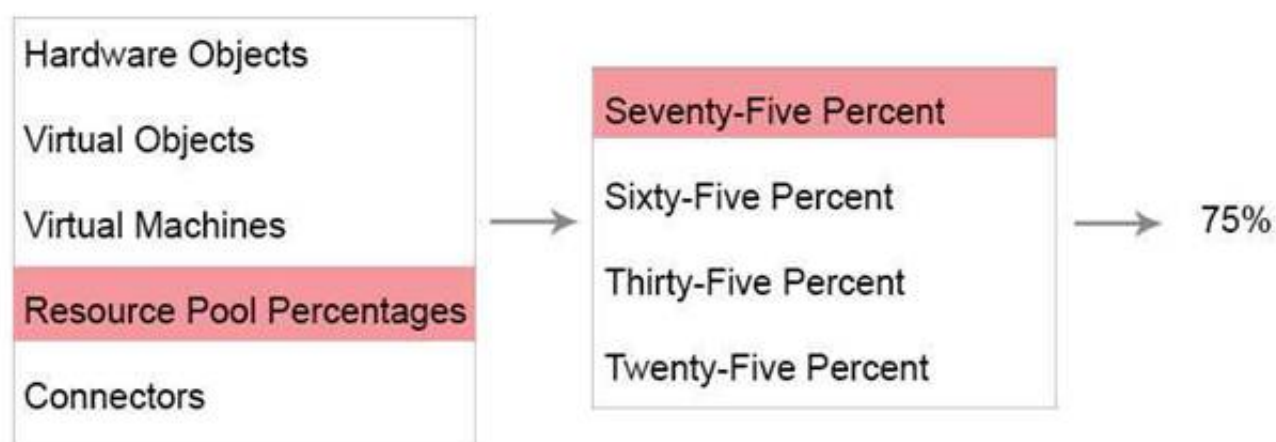
Create a logical design that shows resource allocation and cluster policies needed to meet the customer’s requirements. The design should include:

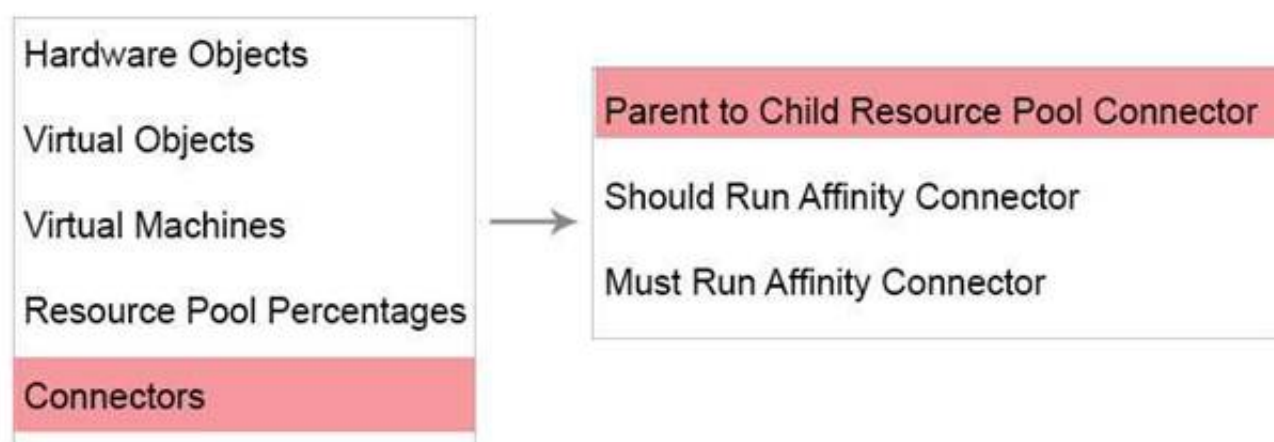
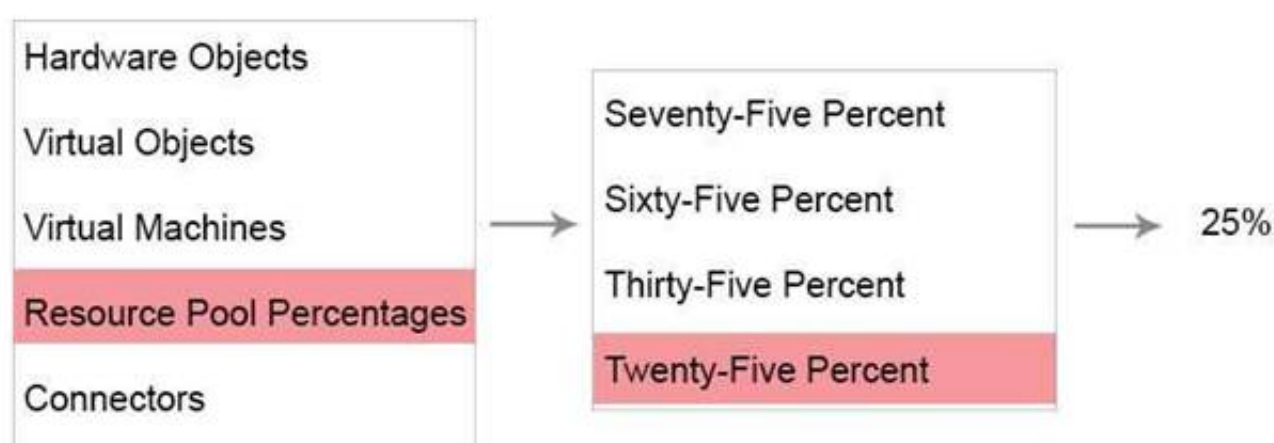
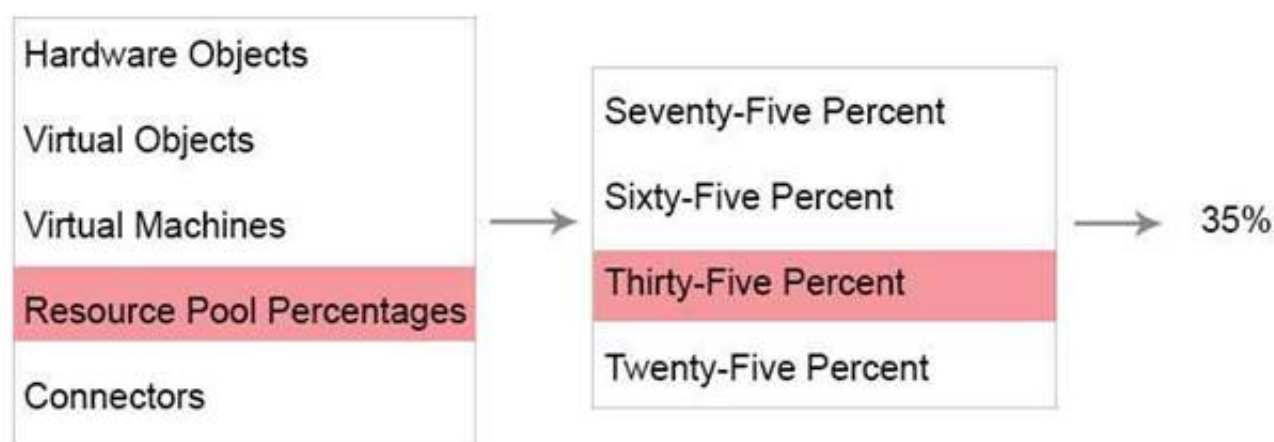
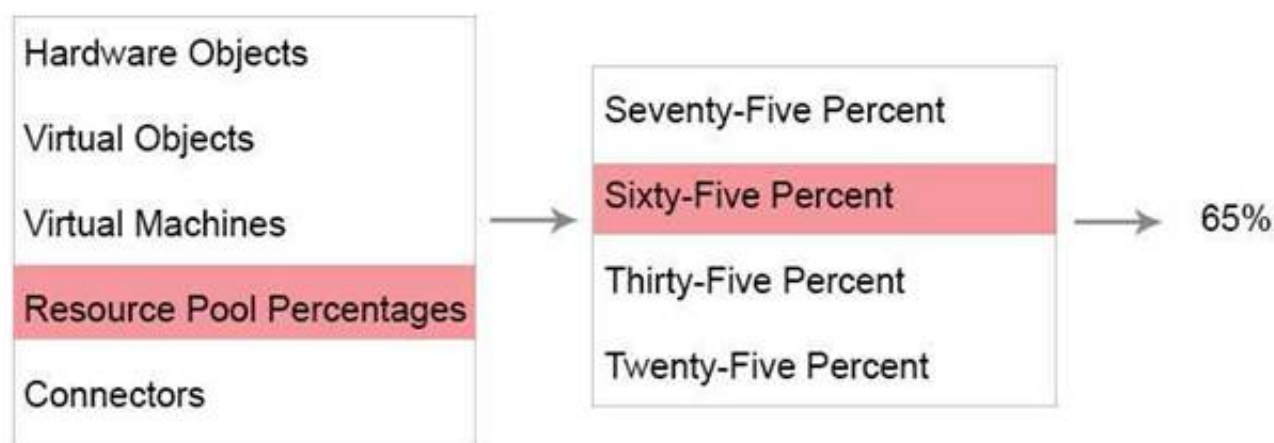
- All required server(s)
- All required resource(s)

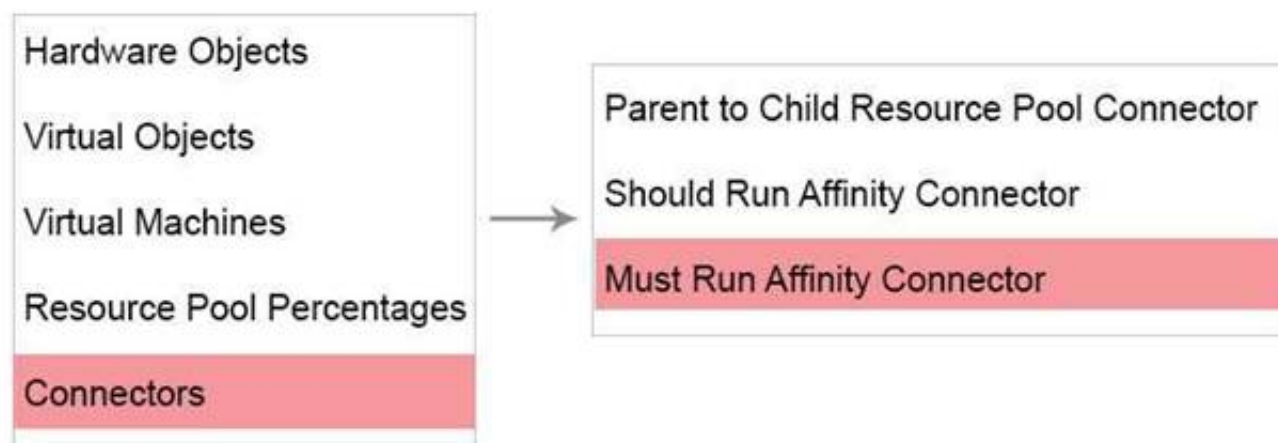
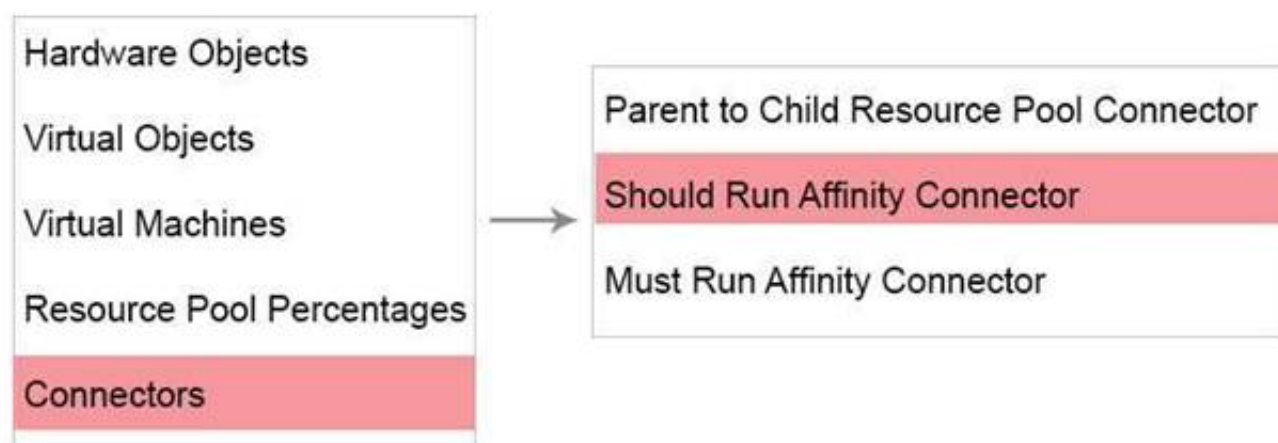
Place host(s) in the required DRS group(s). Place virtual machines in the appropriate resource pool(s). Connect parent to child resource pool connector(s) where needed. Connect the appropriate affinity connector(s) where needed.









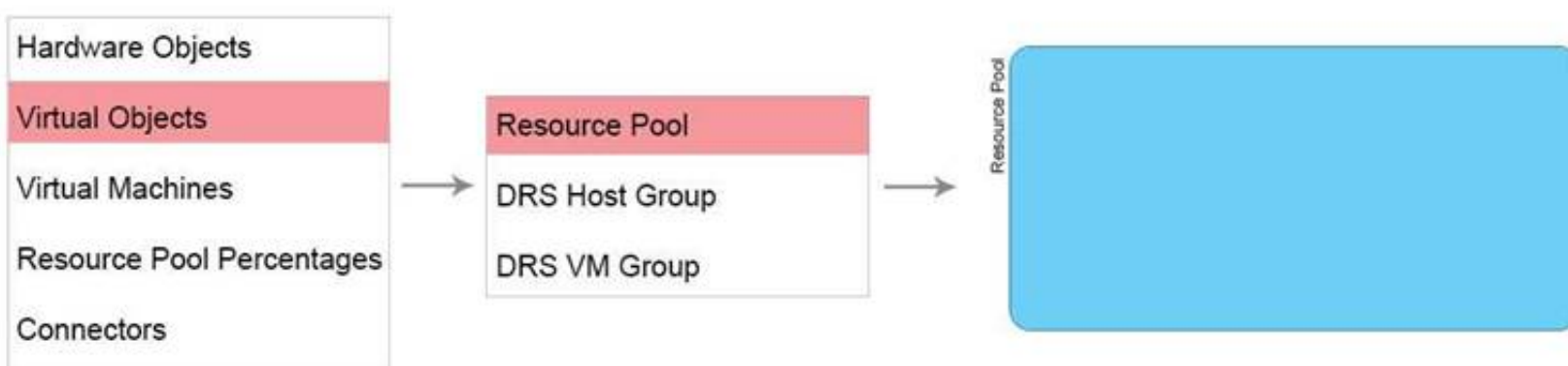


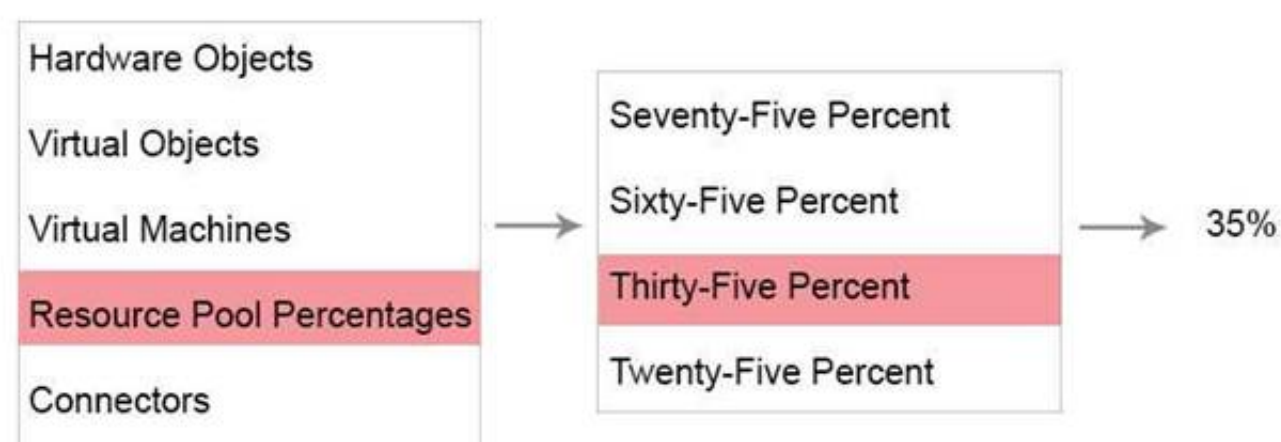
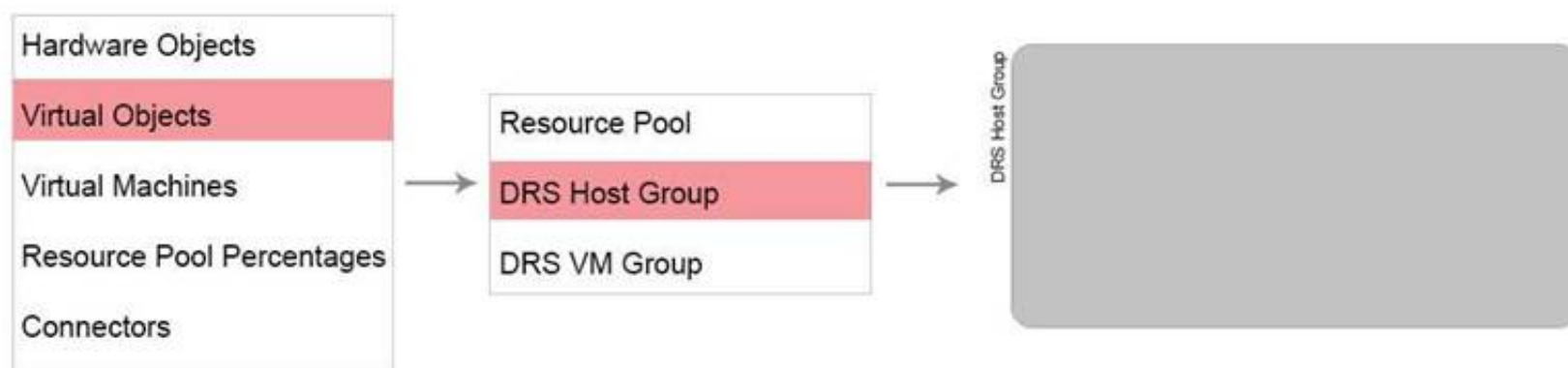
- A. Mastered
- B. Not Mastered

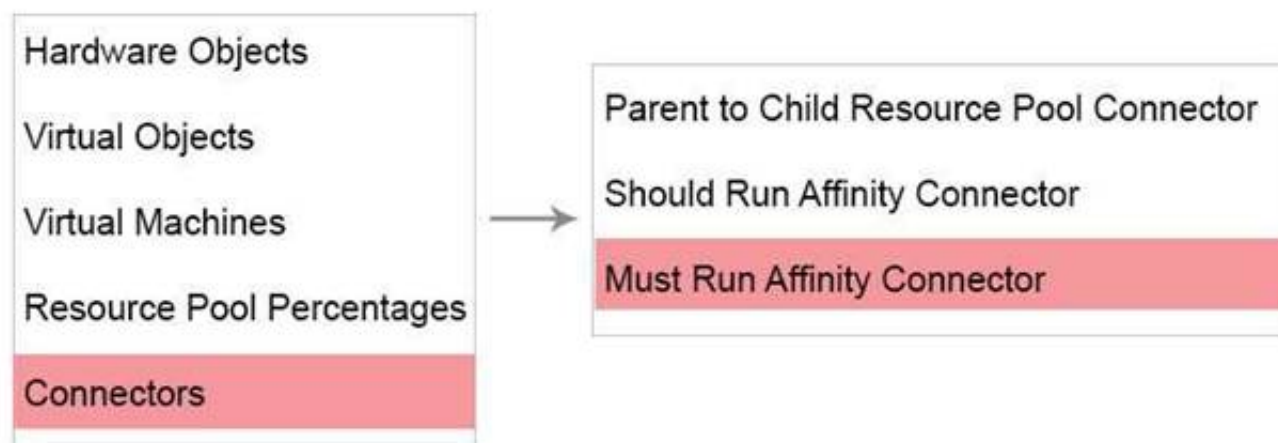
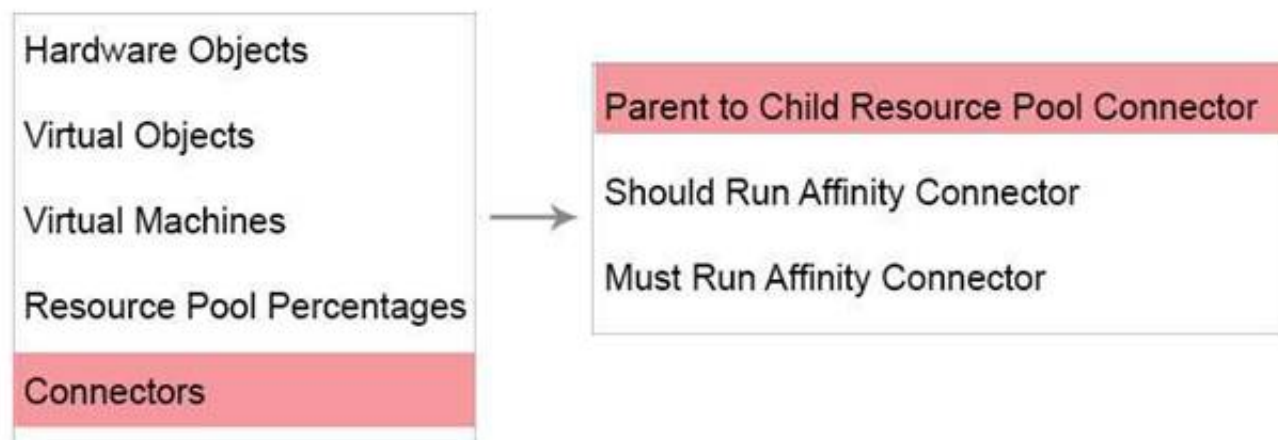
Answer: A

Explanation:

Check below for answer solution

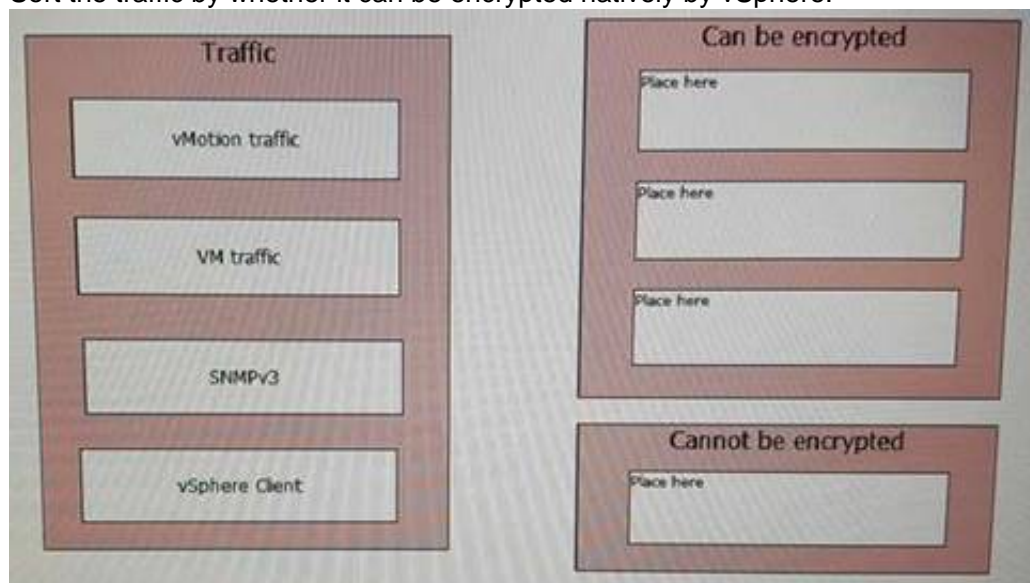






NEW QUESTION 31

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



- A. Mastered
- B. Not Mastered

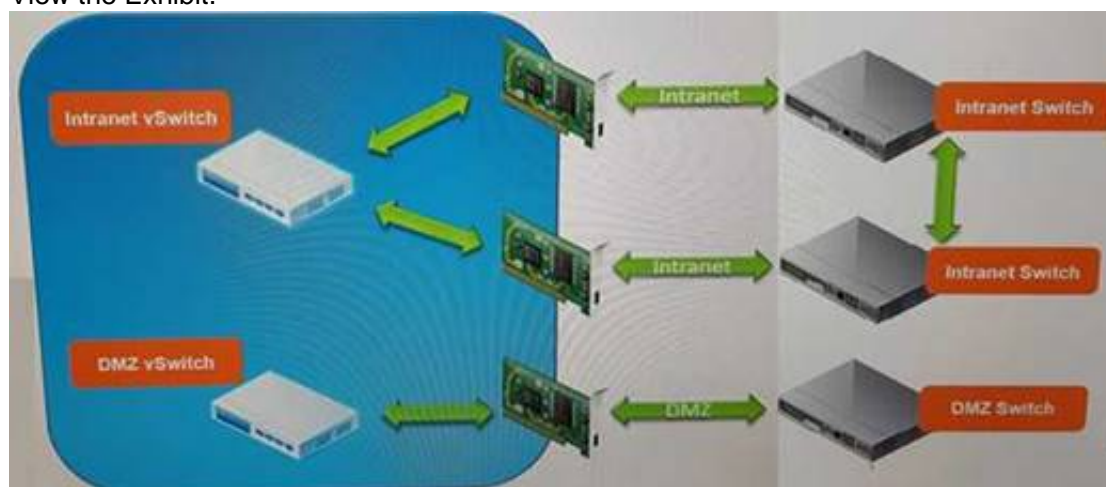
Answer: A

Explanation:

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

NEW QUESTION 34

View the Exhibit.



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

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

Answer: EF

NEW QUESTION 39

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 44

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

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

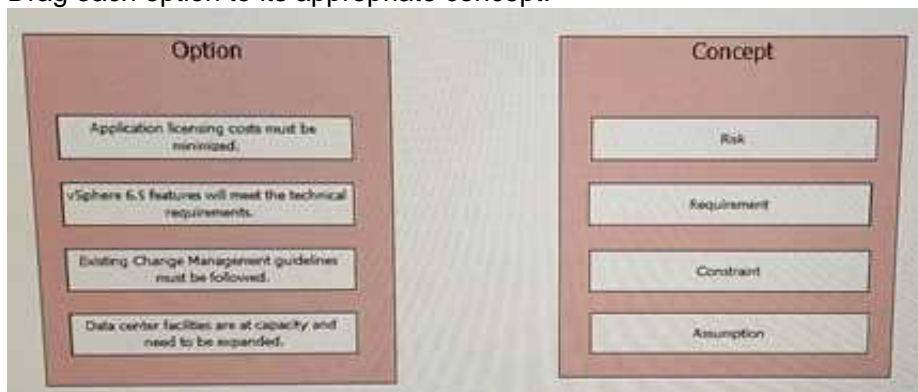
Given this scenario, which three statements are true? (Choose three.)

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

Answer: ABC

NEW QUESTION 47

Drag each option to its appropriate concept.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Risk --> DC facilities are at capacity end...Requirement --> Existing change management guidelines...Constraint --> App licencing costs must be minimizedAssumption --> vsphere 6.5 features will meet the...

NEW QUESTION 50

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

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

Answer: A

NEW QUESTION 52

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

- A. Host Failure Cluster Tolerates

- B. CPU and Memory Percentage for Failover
- C. Standby Host
- D. None of the above

Answer: B

NEW QUESTION 53

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 56

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:

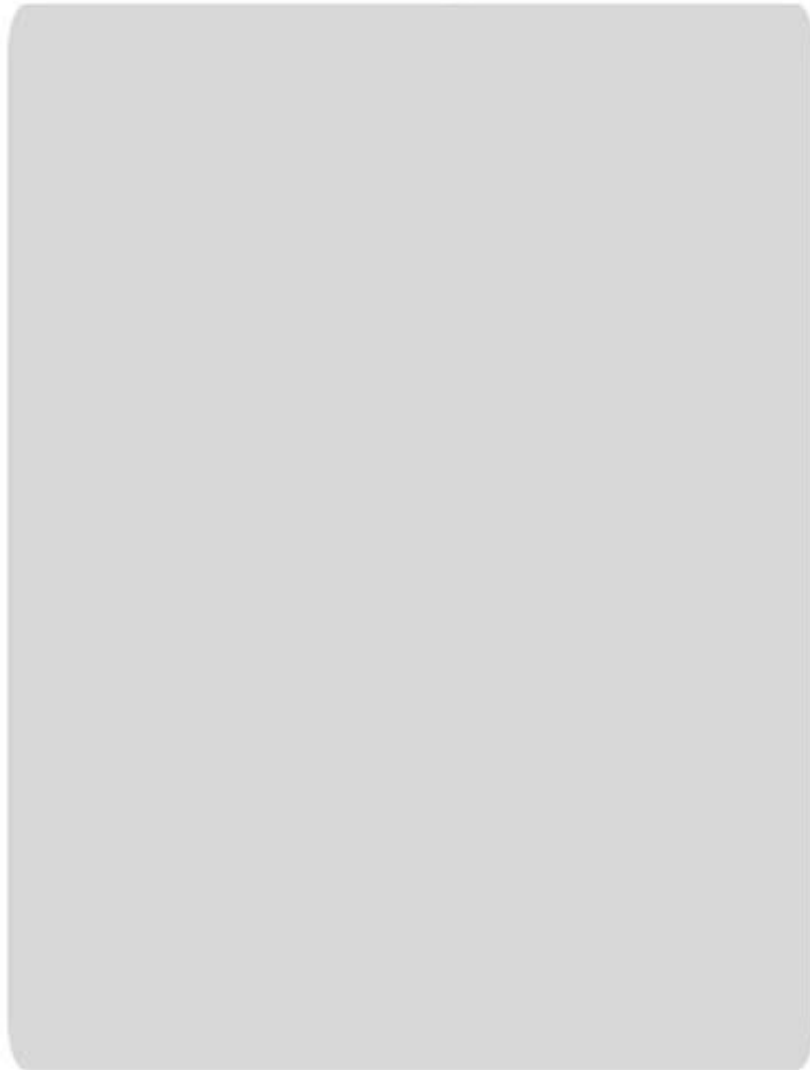
- Database workloads – Gold
- Application workloads – Silver
- Web workloads – Bronze

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

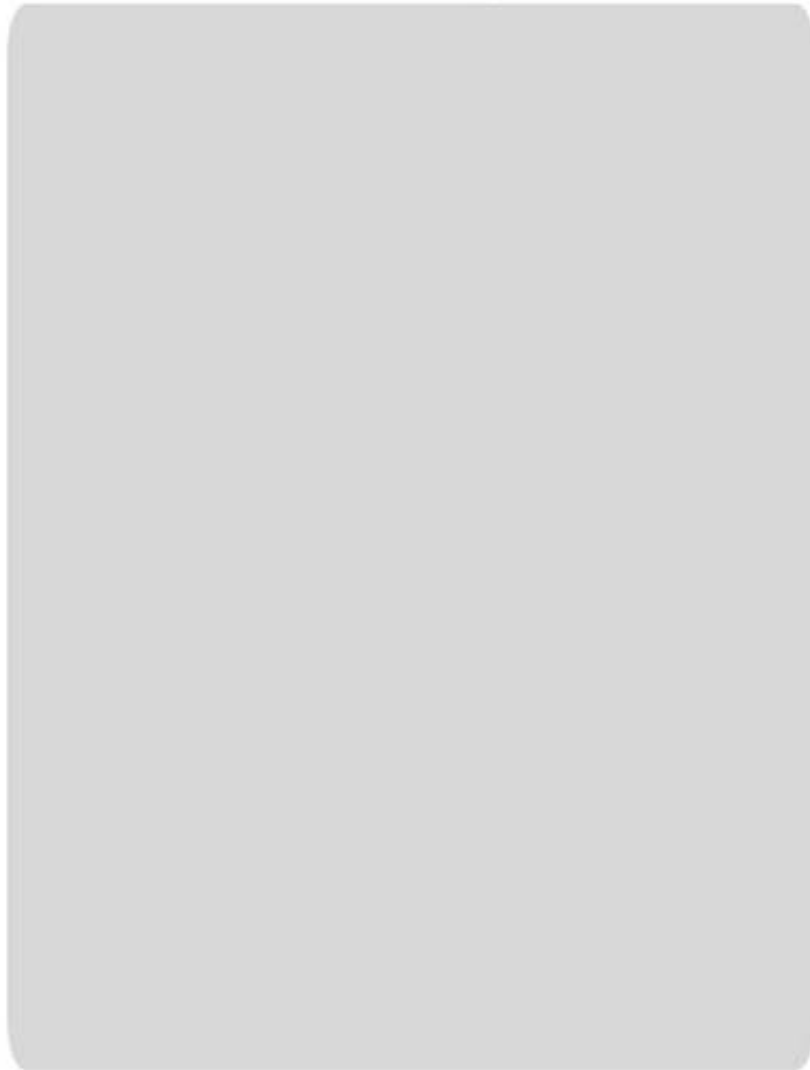
Create a design that incorporates the required elements:

- 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



BCDR Components

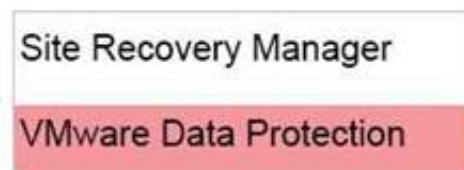
Service Levels
 Storage Types
 Workloads
 Replication Connectors



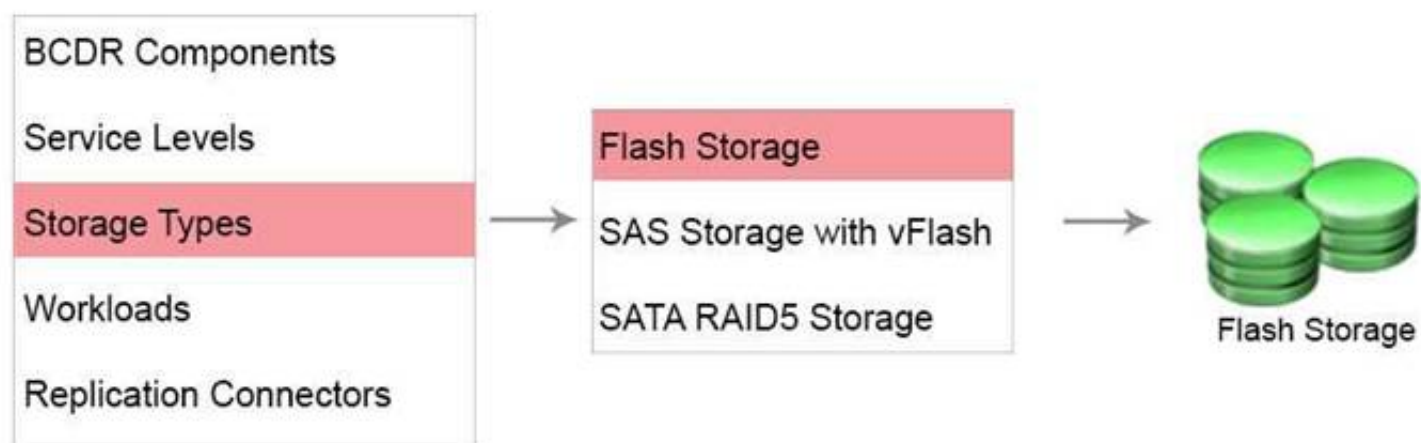
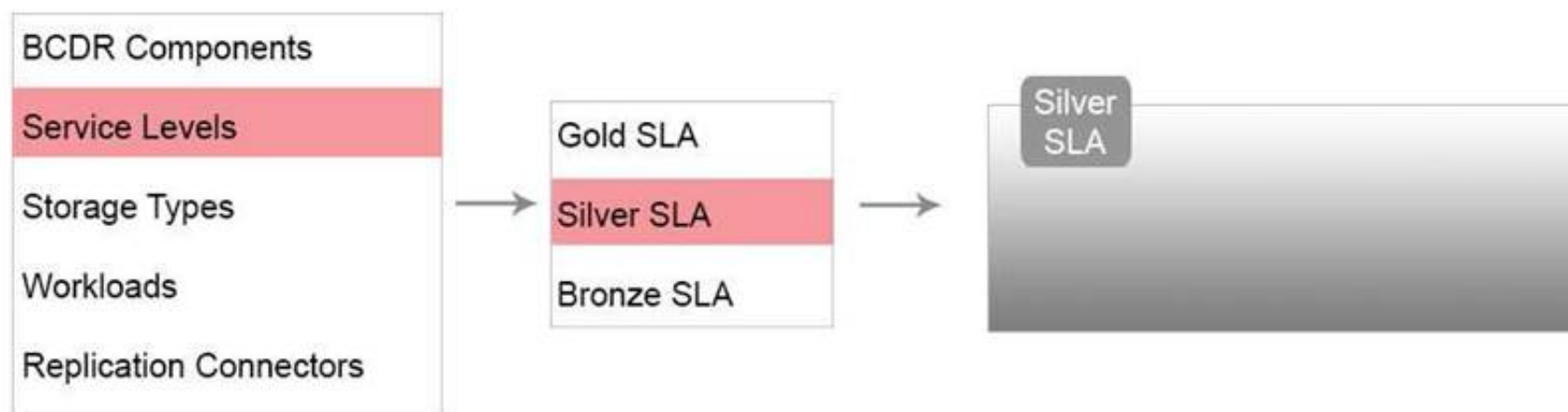
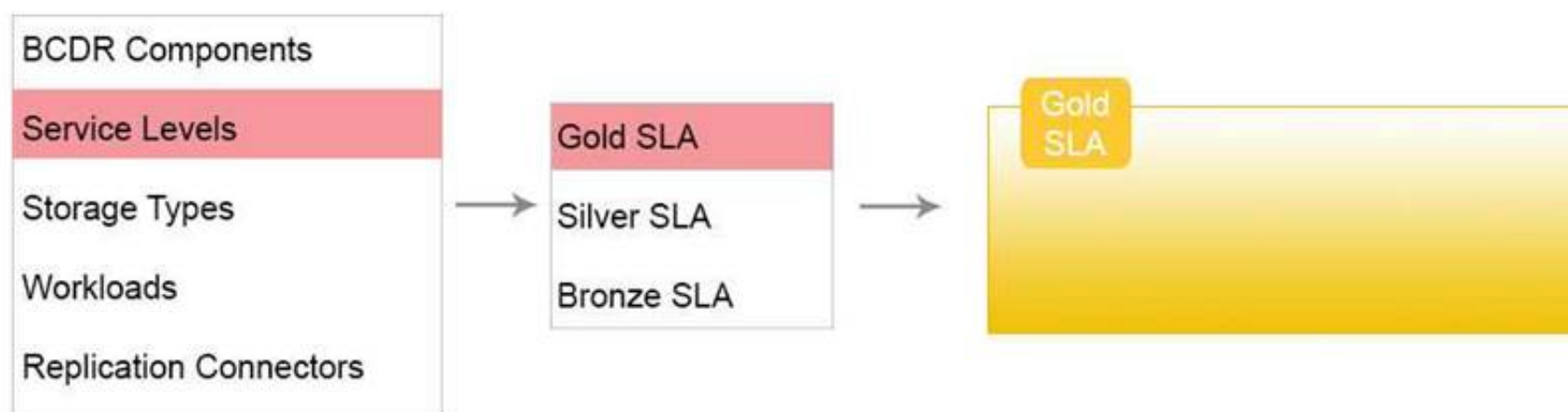
SRM

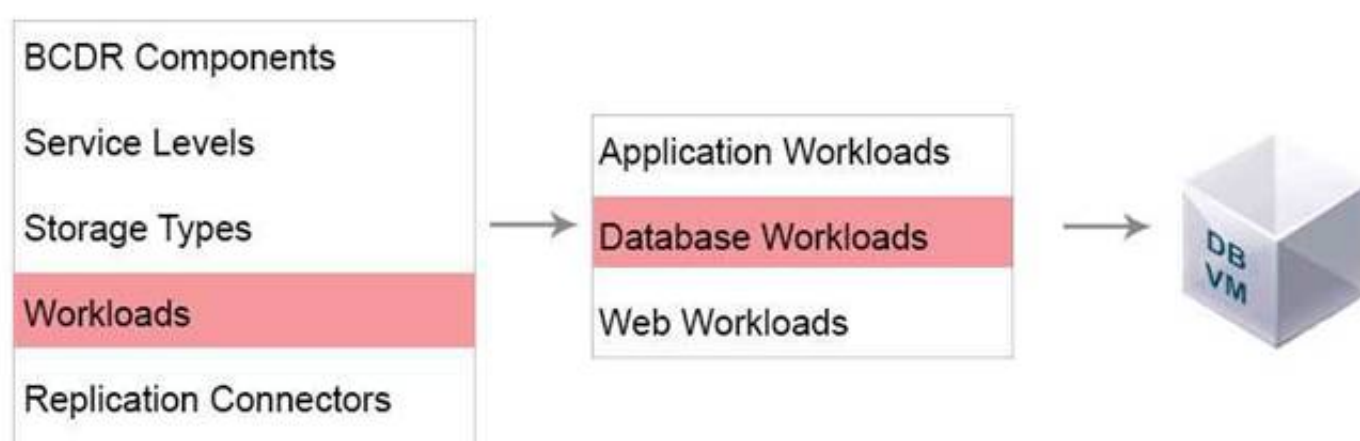
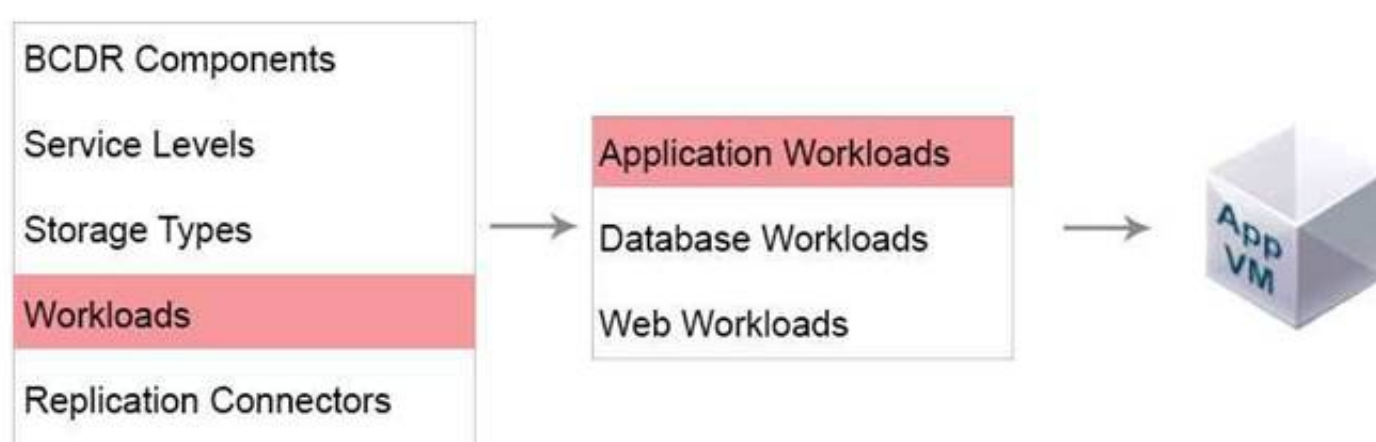
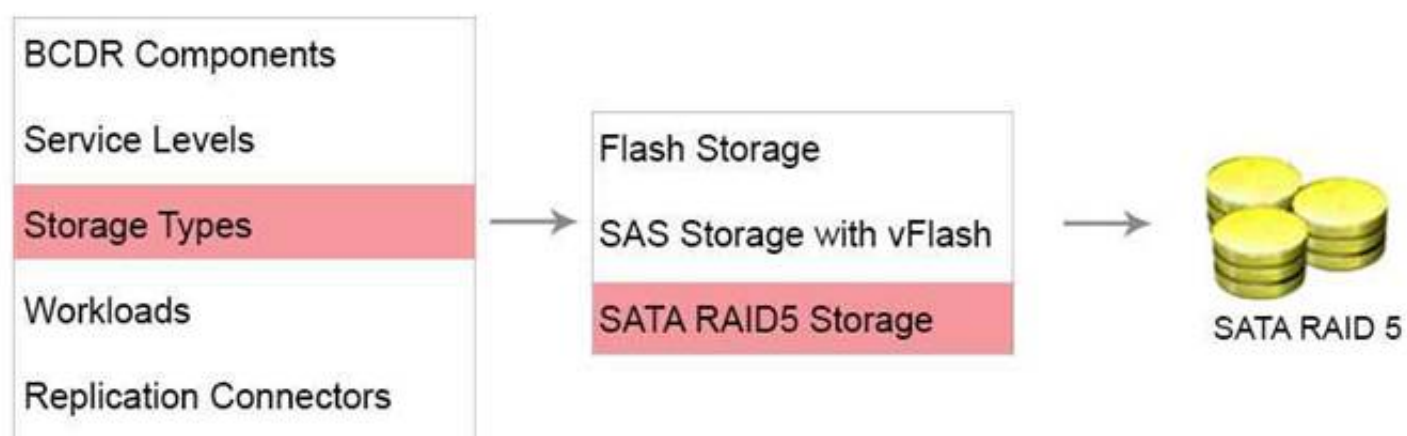
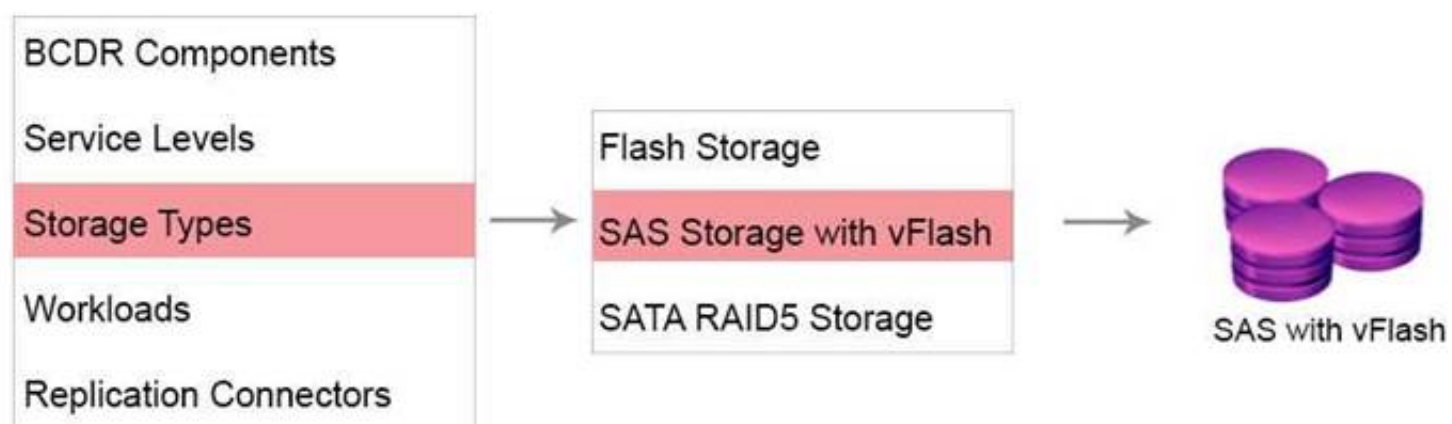
BCDR Components

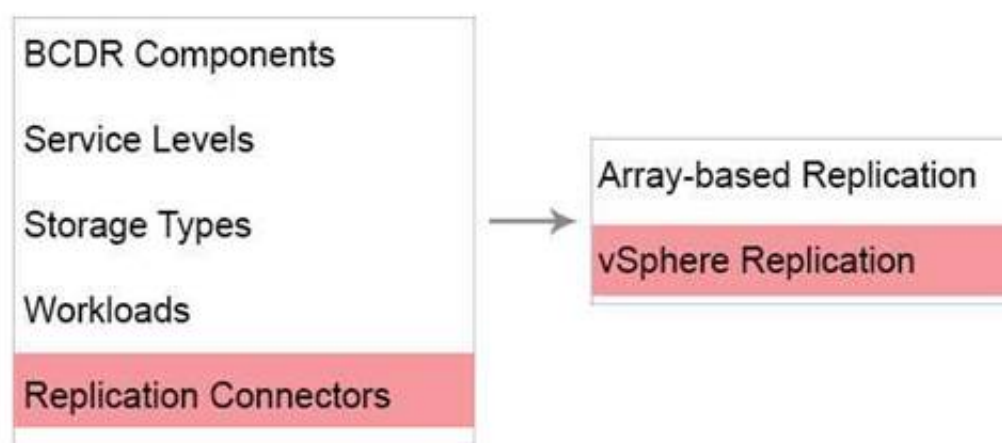
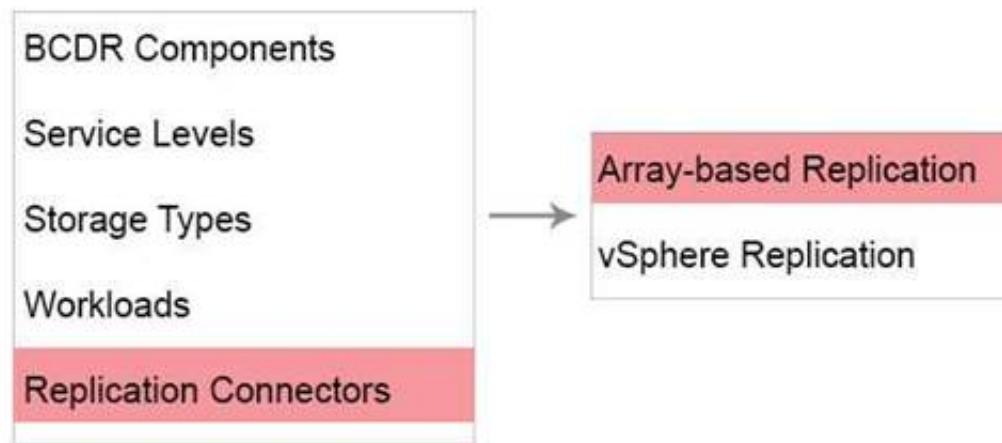
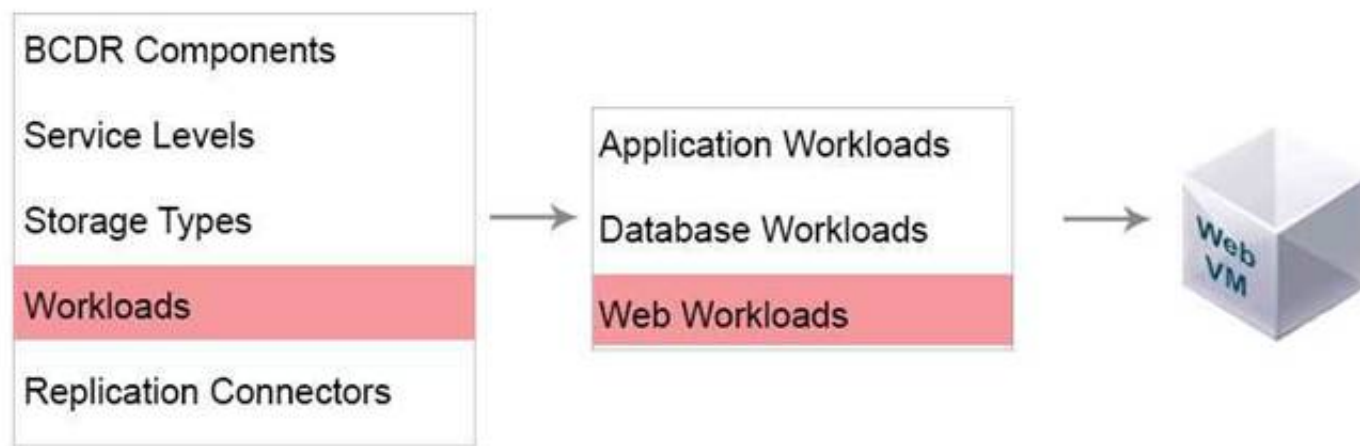
Service Levels
 Storage Types
 Workloads
 Replication Connectors



VDP





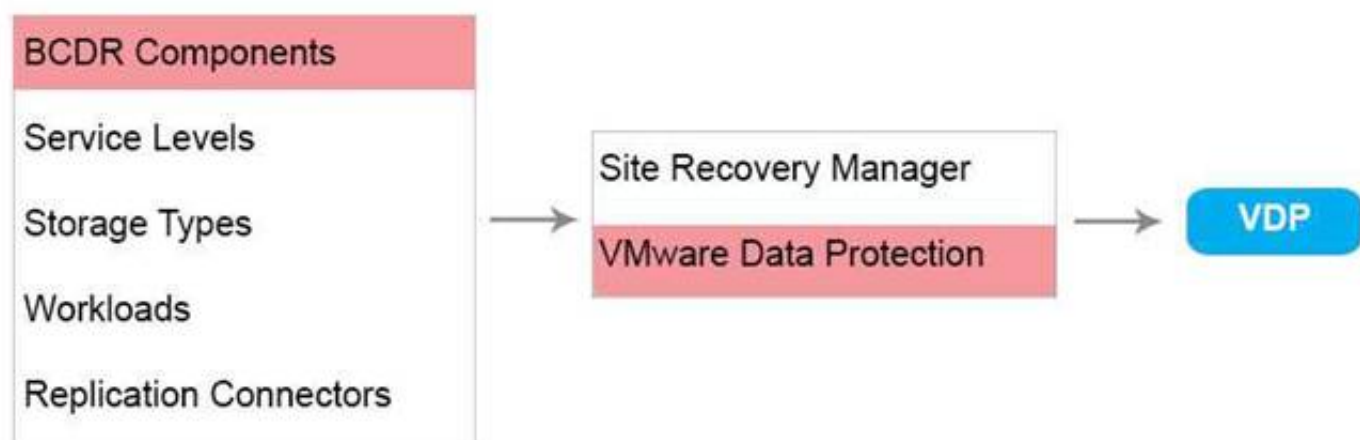


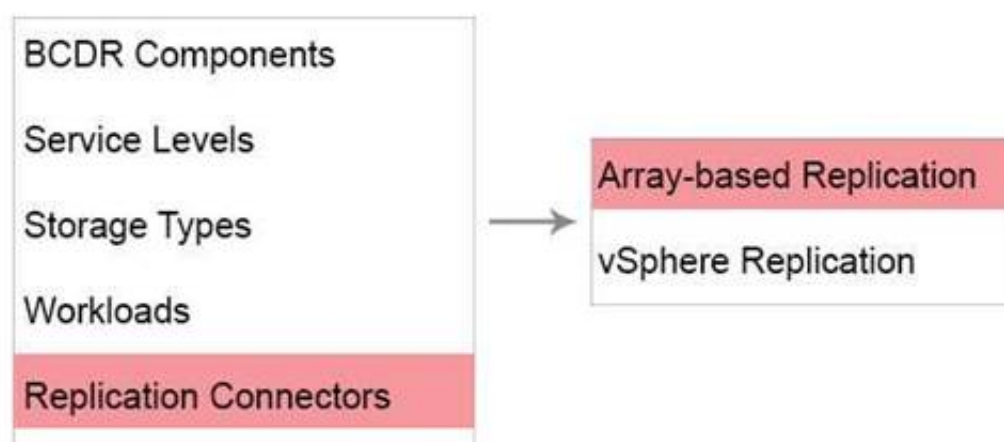
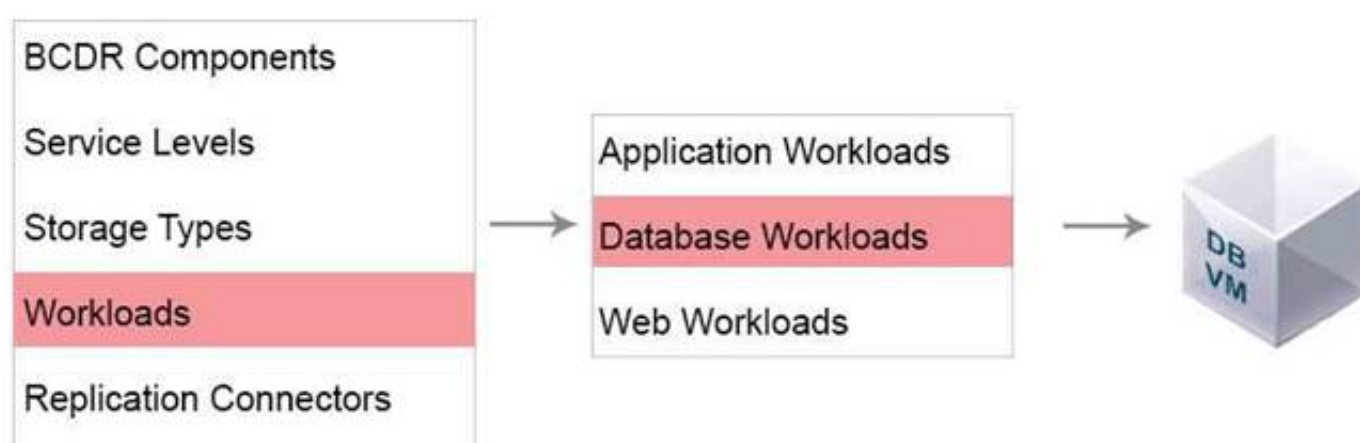
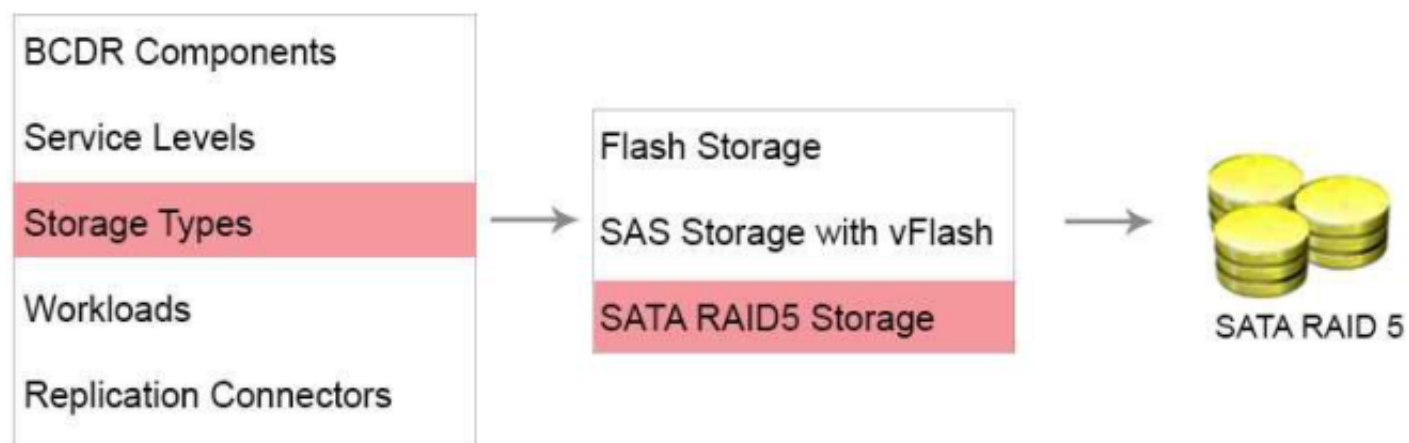
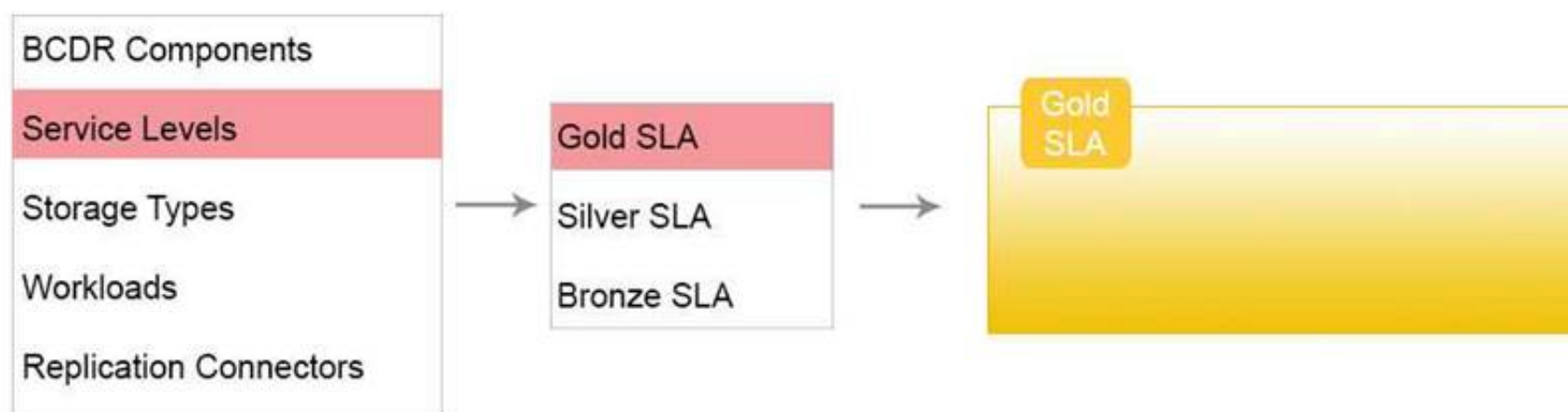
- A. Mastered
- B. Not Mastered

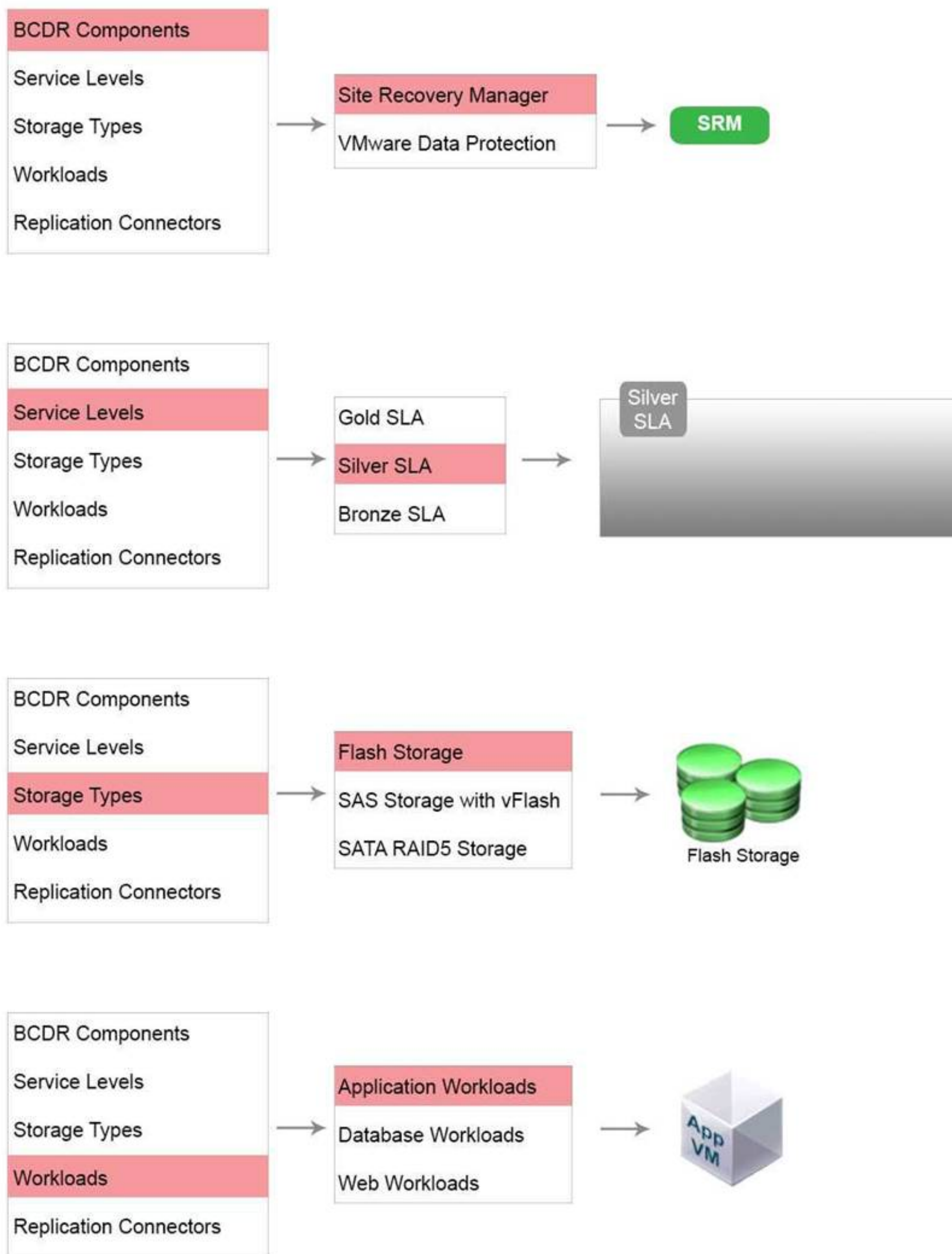
Answer: A

Explanation:

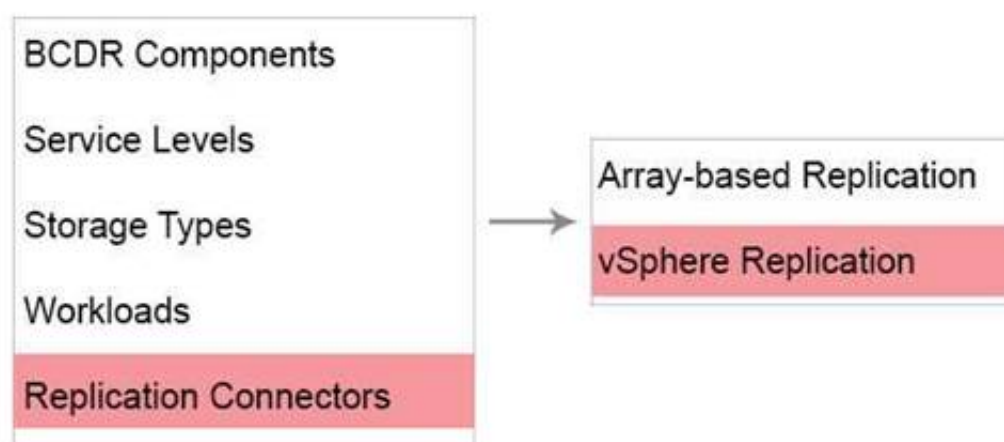
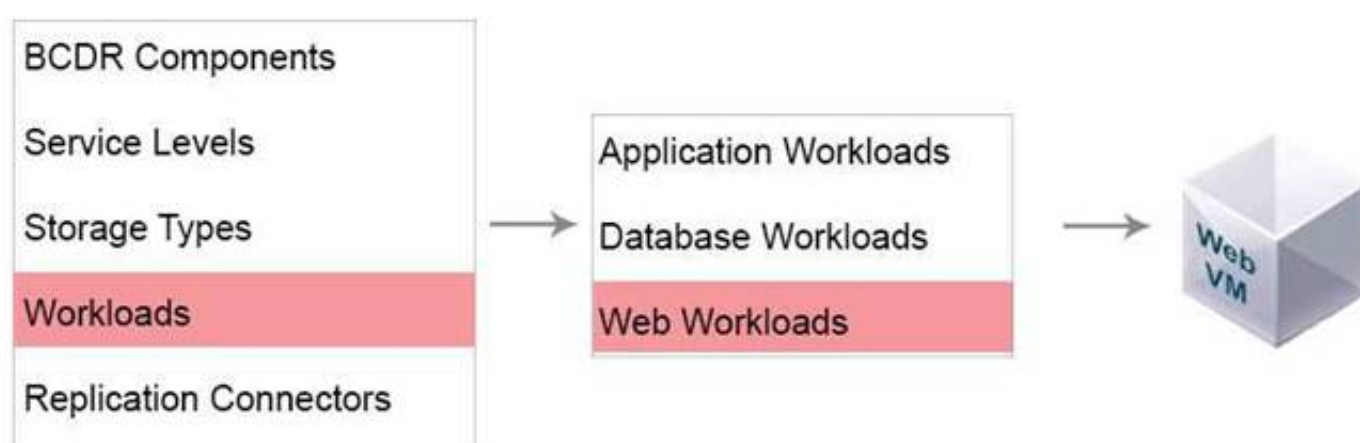
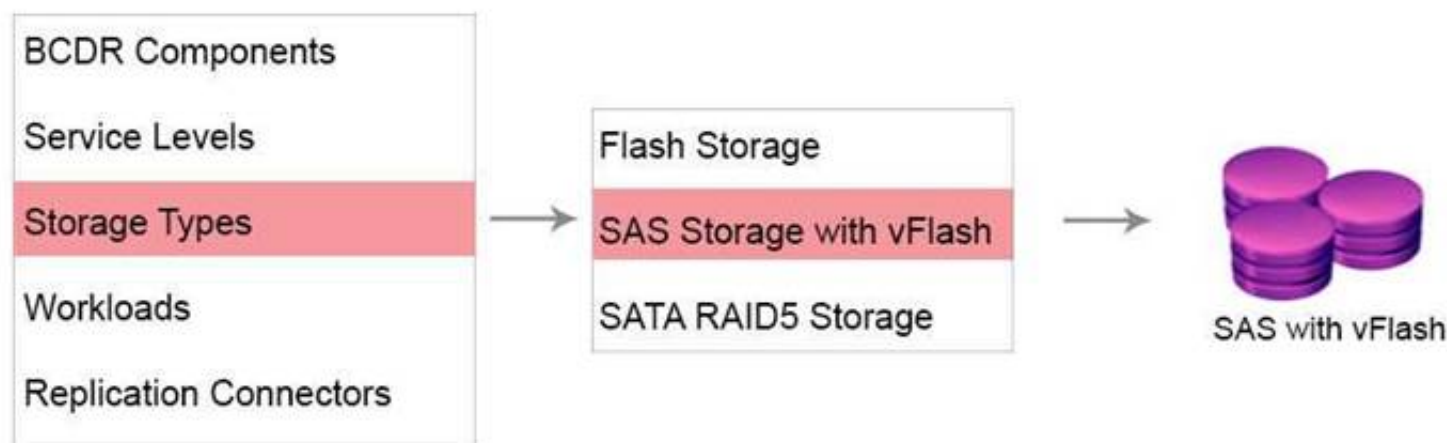
Check below for answer solution Primary







Secondary



NEW QUESTION 61

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 64

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