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VMware Certified Advanced Professional 6.5 – Data Center
Virtualization Design Exam

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QUESTION 1

A customer has requested that a new vSphere 6.5 environment be designed with its upcoming data center consolidation effort in mind.

1.

The existing environment is a mix of physical and virtual servers

2.

Fibre Channel storage is used for 100 vSphere ESXi hosts and 600 physical servers across three data centers, some of which contain latency sensitive applications critical to ongoing business

3.

The customer expects to increase its virtualization ratio from 50% today to 90% at the conclusion of this effort, and wants the new design to feature a software-defined storage solution that will decrease their TCO. Which two statements are the business requirements in this scenario? (Choose two.)

- A. The design must include VMware vSAN as the primary storage solution
- B. The design must account for business-critical applications
- C. The design must increase virtualization adoption
- D. The design must reuse wherever possible to reduce cost

Correct Answer: AD

QUESTION 2

A management company has requested that a new vSphere 6.5 design be developed to protect its existing data center investment while it expands to a second data center site and introduces process automation.

1.

The existing environment consists of 32 vSphere 6.0 hosts attached to an iSCSI storage array containing external customer financial and medical records used by its investment and medical services divisions.

2.

The customer is also interested in the ability to expand to and failover to a public cloud. Which two valid assumptions can be made about the new design? (Choose two.)

- A. The storage array is listed in the VMware Compatibility Guide (HCL/VCG) for vSphere 6.5. 12
- B. The resulting design should utilize the existing hardware choices.
- C. Sufficient power and cooling exists in the second data center.
- D. Sufficient bandwidth exists between the sites for cross-cluster vMotion.

Correct Answer: CD

QUESTION 3

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

Correct Answer: C

QUESTION 4

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

1.

It has two sites when are very well-connected, and latency is less than 5ms round trip.

2.

The customer requires that its applications be restarted even in the event of a total site failure.

3.

The applications must be kept online even when migrated during maintenance.

4.

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.

Correct Answer: BC

Requirements are: 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. Therefore: A) No customer requires the application to be restarted in an event of site failure. A restart implies a short downtime, while answer A states "continuous availability", which is not true if a restart is involved (and false since the customer doesn't require 100% uptime and it's fine with a restart) B) Yes - 2 of the requirements are about having the application available during maintenance or after failover C) Yes - Same as A, application must be restarted on the secondary site if primary fails D) No - There are no info supporting this

QUESTION 5

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

1.
two data centers for high availability
2.
synchronous replication to meet the zero minute RPO
3.
separating management workloads from application workloads
4.
dedicated 10Gb uplink for each low latency server
5.
single management port for the entire environment

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

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

Correct Answer: BD

Folders don't separate workloads (management object only) and Zero-RPO implies vSAN stretched cluster. Even though three vSAN nodes are at different sites, they must reside within one logical data center in vCenter (and inside a single Cluster Object).

QUESTION 6

A company is designing a new vSphere cluster to support a mission-critical application.

1.

The application requires 100% availability and cannot be restarted to recover from an ESXi host failure.

2.

The application consists of a group of 16 virtual machines, each with 8 vCPU configured.

Which solution satisfies the availability requirements?

- A. Guest OS-based software clustering
- B. vSphere High Availability
- C. vSphere High Availability Application Monitoring
- D. vSphere Fault Tolerance
- E. vSphere Site Recovery Manager

Correct Answer: A

As mentioned, fault tolerance doesn't support 8 x vCPUs in 6.5 and no other technology listed can ensure 100% up-time except some other application / OS method (i.e. Windows Failover Cluster).

1.

FT doesn't support 8 vCPU!

2.

vSphere Standard and Enterprise. Allows up to 2 vCPUs

3.

vSphere Enterprise Plus. Allows up to 4 vCPUs

<https://docs.vmware.com/en/VMware-vSphere/6.5/com.vmware.vsphere.avail.doc/GUID-57929CF0-DA9B-407A-BF2E-E7B72708D825.html>

QUESTION 7

A customer uses vSphere Enterprise Plus edition and wants a network administrator to monitor network traffic. Which two capabilities help with monitoring network traffic? (Choose two.)

- A. Port Mirroring
- B. Network I/O Control
- C. QoS tagging
- D. NetFlow

Correct Answer: AD

QUESTION 8

A customer uses servers without internal storage and asks a systems architect to design a solution with a Fiber Channel array and blade servers as options. The customer requires:

1.
Easier server replacement
2.
Booting through HBA or FCoE
3.
Less wasted space
4.
Improved management
5.
Better reliability
6.
Inexpensive servers
7.
Easier backup processes

Which design element will follow VMware recommended best practices and also meet customer requirements?

- A. VMware Virtual SAN
- B. Auto Deploy
- C. PXE boot
- D. Boot from SAN

Correct Answer: D

QUESTION 9

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

Correct Answer: A

QUESTION 10

A solutions architect has made the following design decisions:

1.
Leverage existing hardware that is certified on earlier versions of vSphere but is NOT on HCL for ESXi 6.5.
2.
Upgrade vCenter Server to version 6.5.
3.
Configure separate clusters based on ESXi versions 5.5, 6.0, and 6.5 for newly purchased, certified hardware.
4.
The underlying CPU family is compatible.
5.
There is enough resources available to vMotion virtual machines (VMs)

Given this scenario, what is the correct statement about the ability to vMotion virtual machines between versions of ESXi?

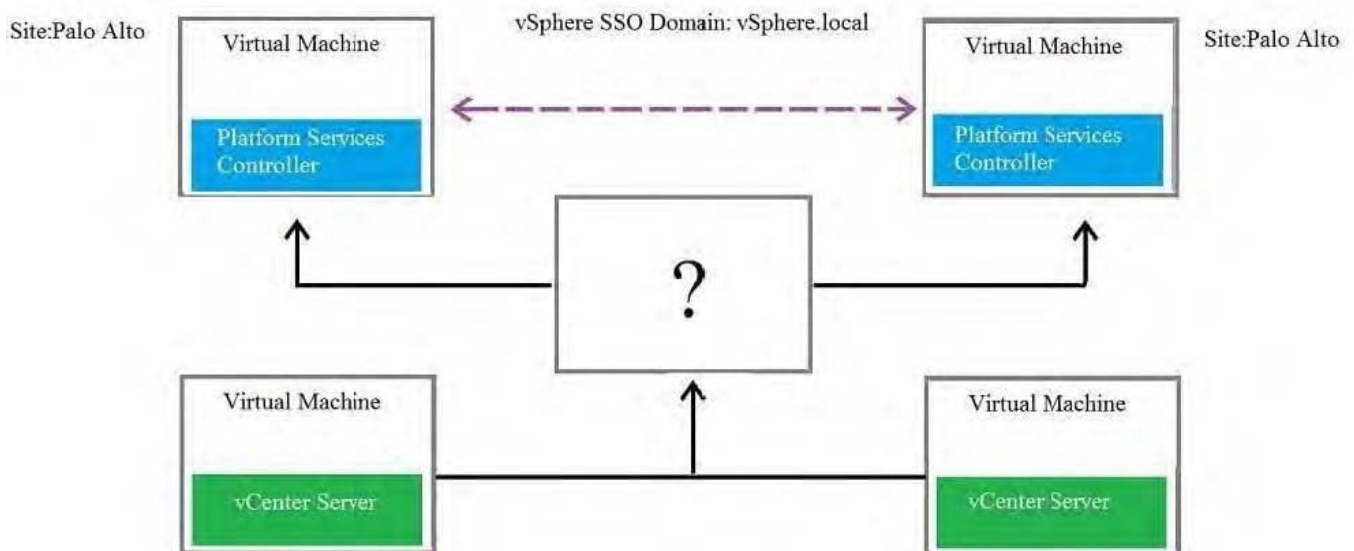
- A. VMs created in vSphere 5.x must be upgraded first to newer virtual hardware and then be vMotioned to vSphere 6.x.
- B. VMs created in vSphere 6.x environment with default settings can be moved to ESXi 5.x.
- C. VMs can be vMotioned to the same or newer version of ESXi.
- D. VMs that are created after the vCenter Server 6.5 upgrade can be vMotioned between any supported versions of ESXi.

Correct Answer: C

<https://kb.vmware.com/s/article/2007240>

QUESTION 11

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

Correct Answer: B

QUESTION 12

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

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

The design must:

1. protect the company's existing data center investment
2. expand to a second data center site

3.

introduce process automation

4.

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.

Correct Answer: DE

QUESTION 13

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

-

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.

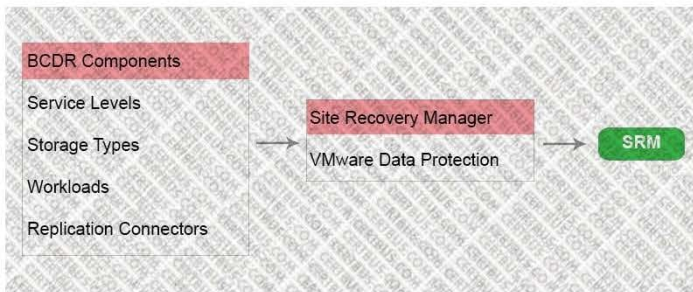
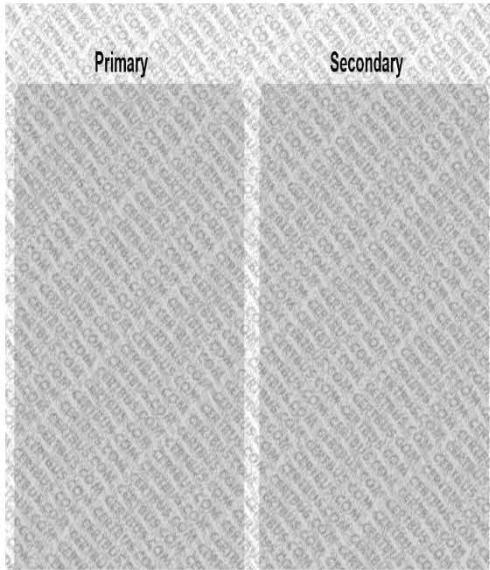
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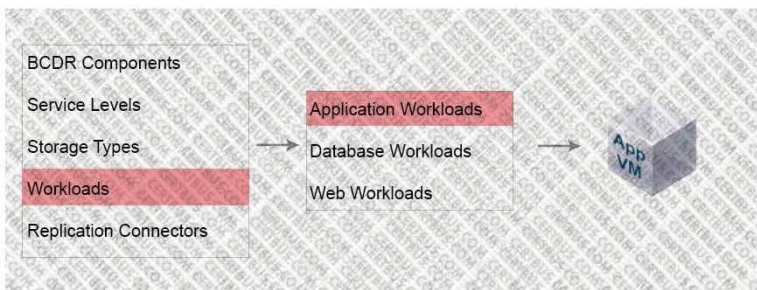
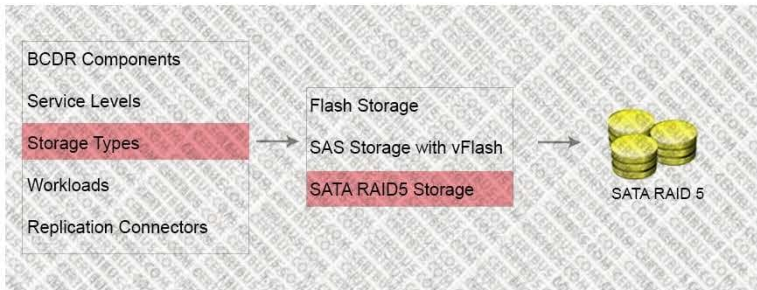
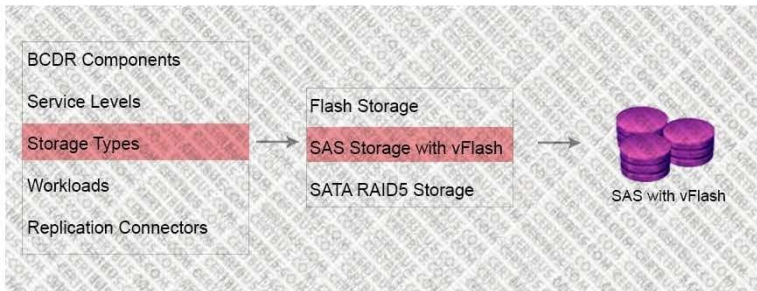
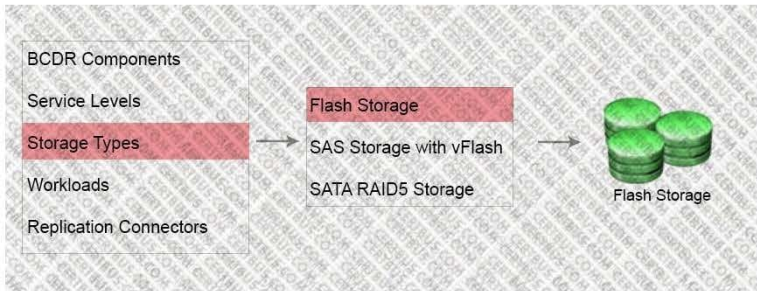
Connect any replicated storage between the two sites using the appropriate replication connector.

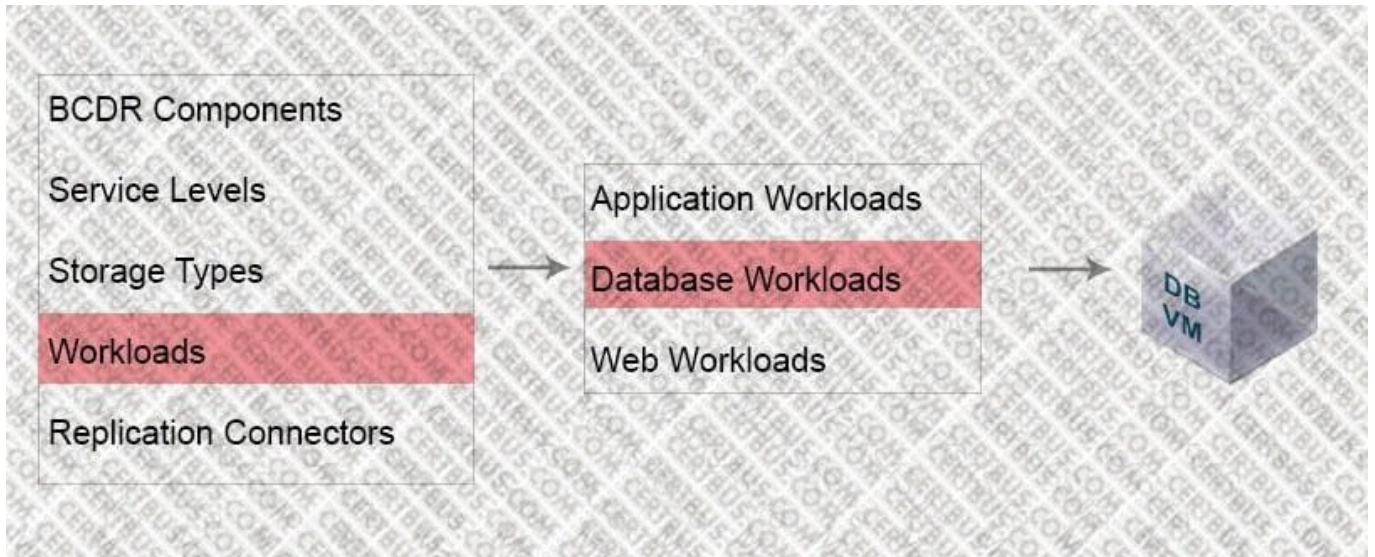
A.

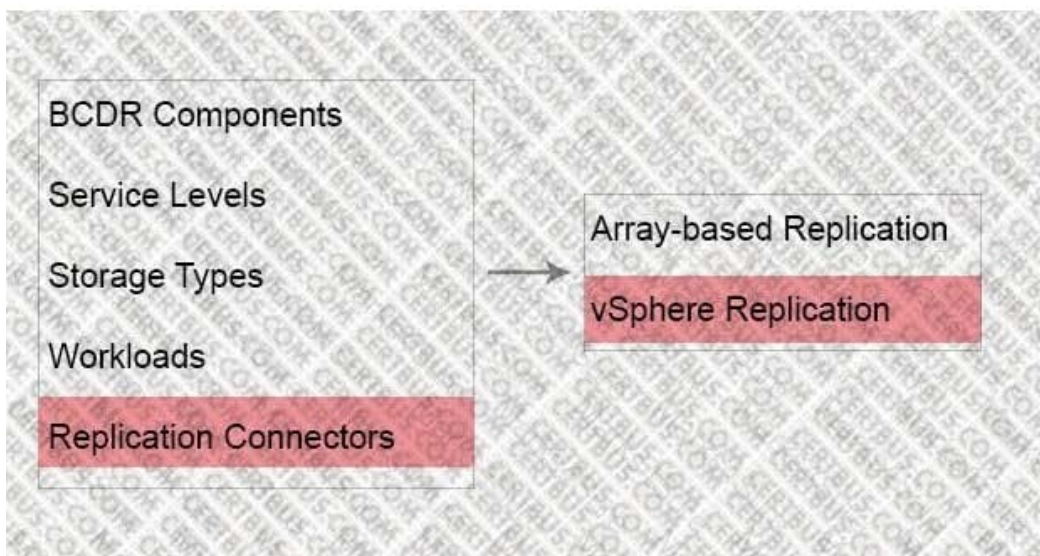
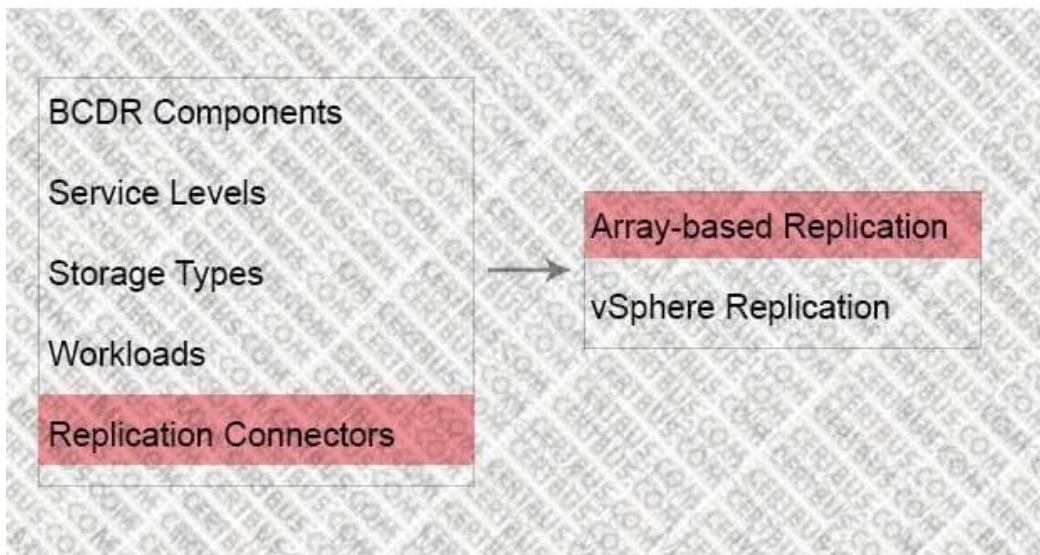
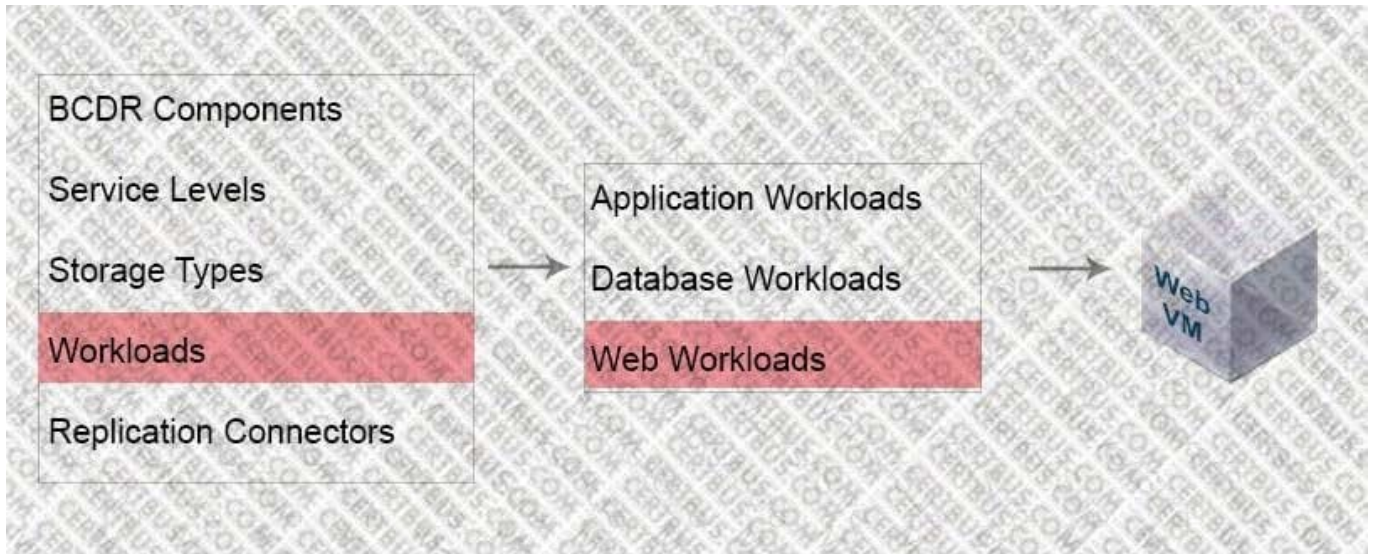
Check the answer in explanation.

Correct Answer: A

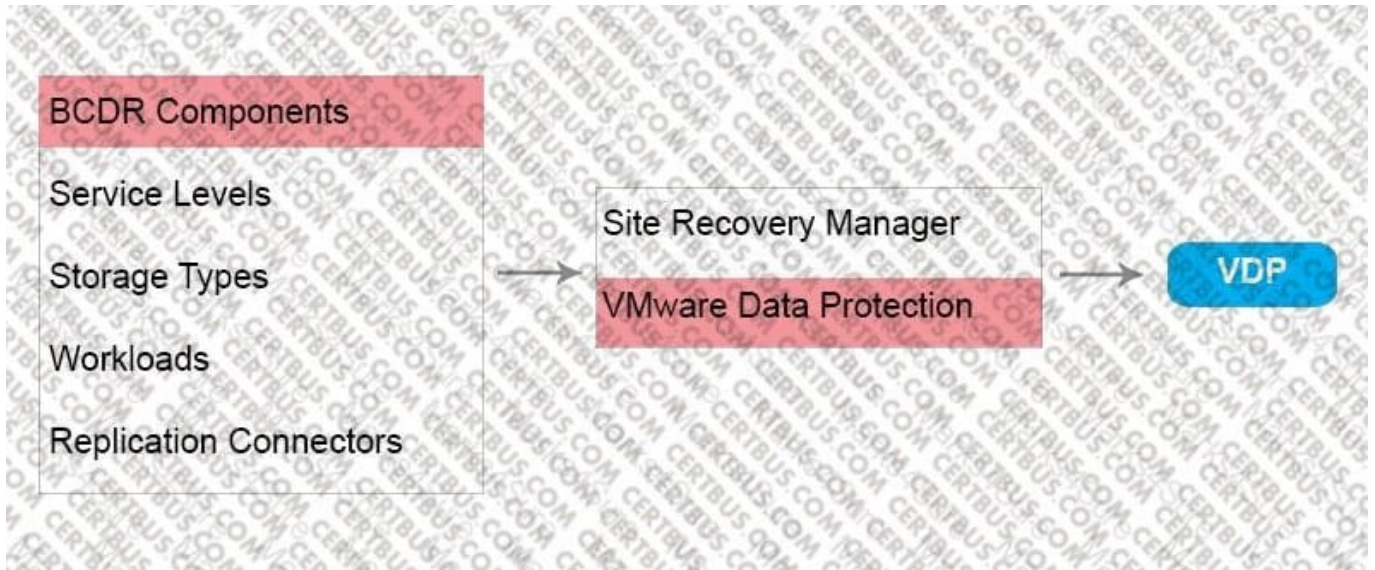


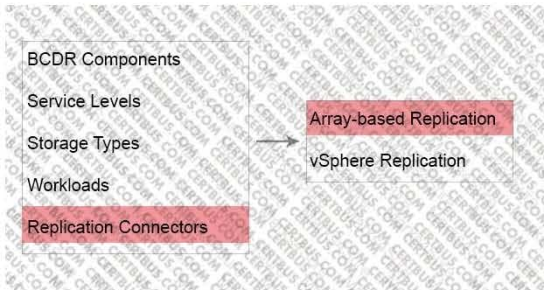
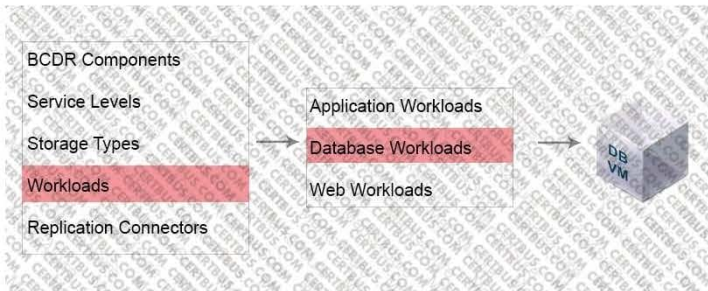
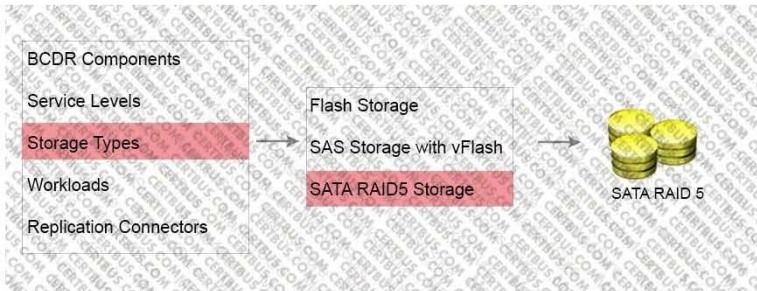


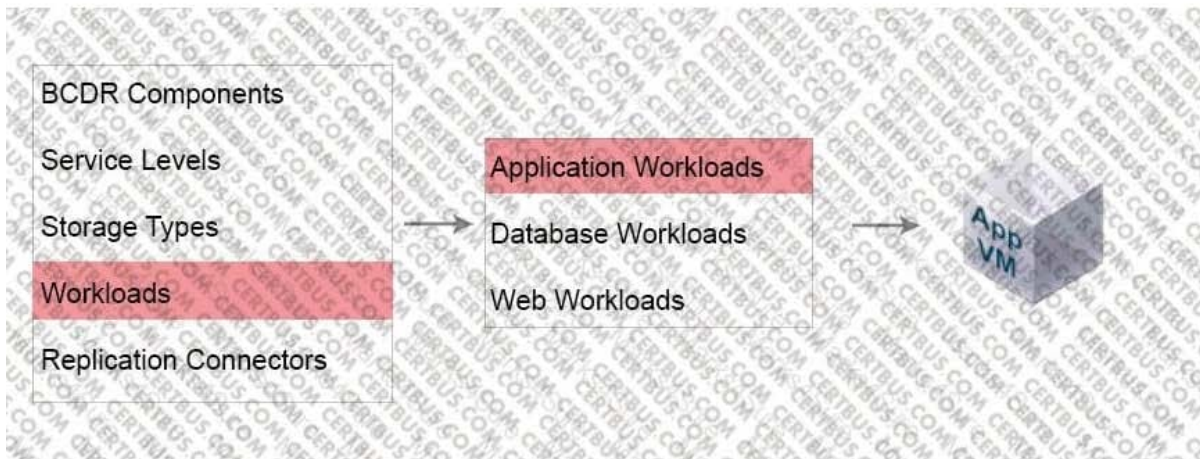
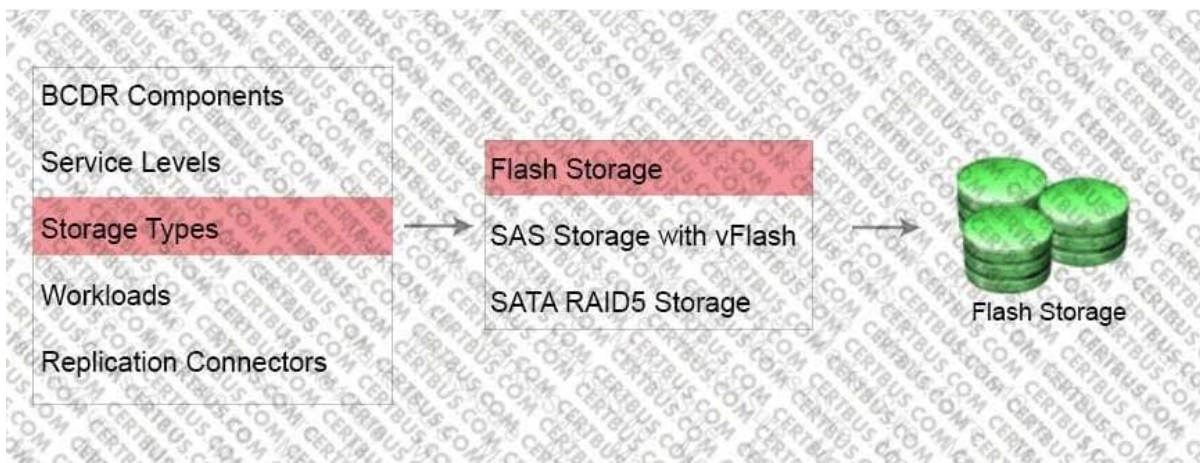




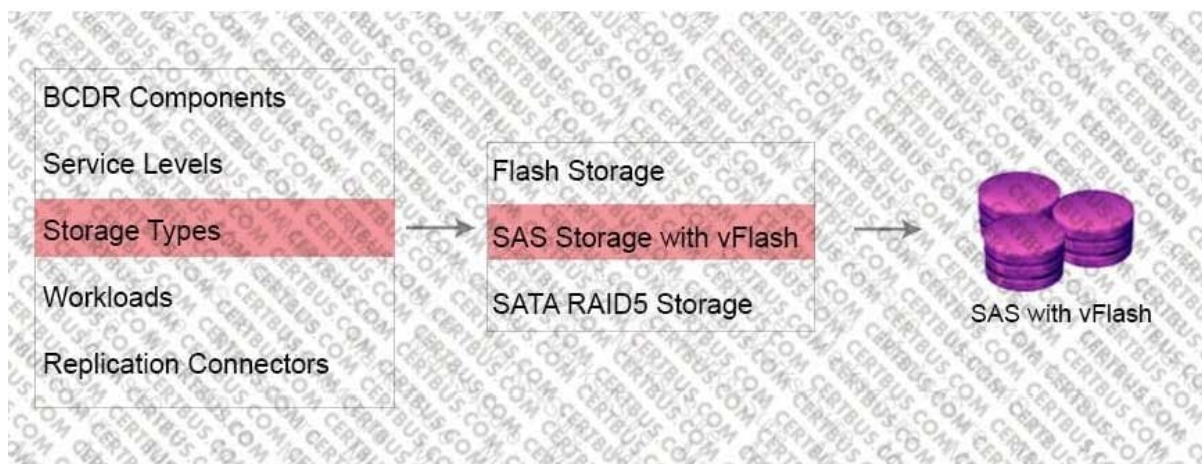
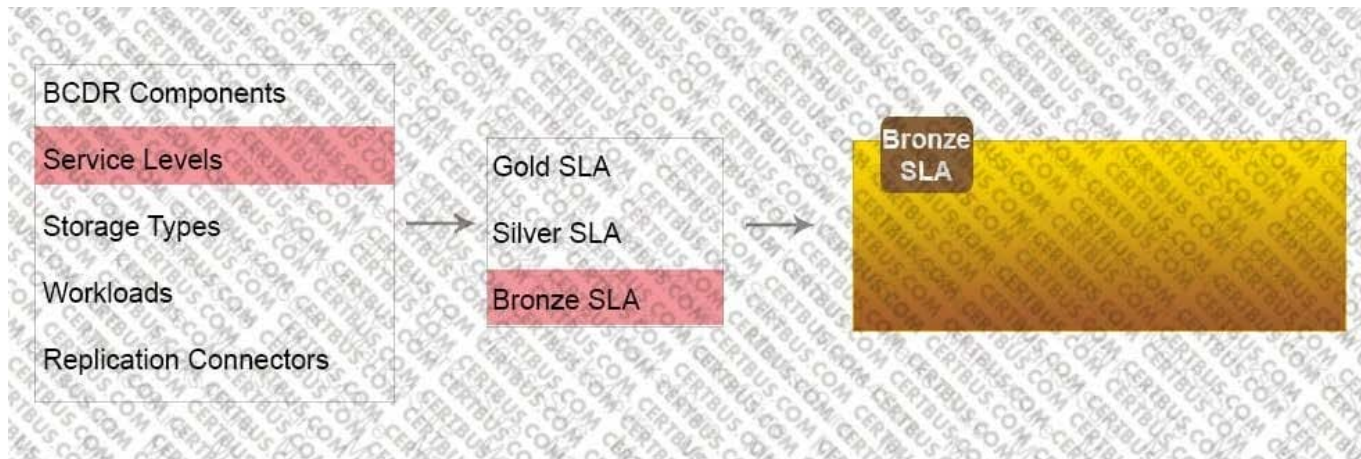
Check below for answer solution: Primary

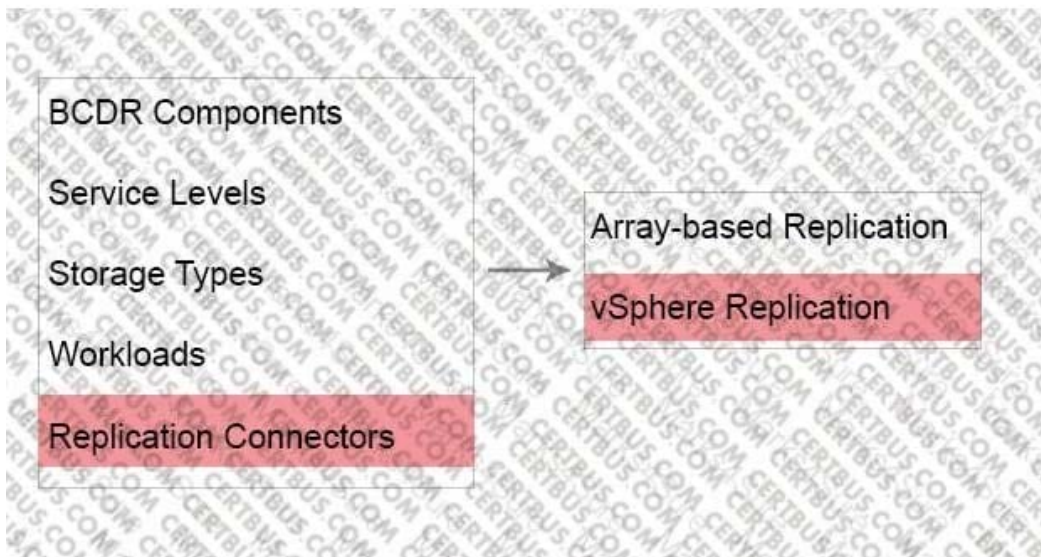






Secondary





QUESTION 14

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

Correct Answer: AD

https://pubs.vmware.com/vsphere-50/index.jsp?topic=%2Fcom.vmware.vsphere.security.doc_50%2FGUID-94F0C54F-

05E3-4E16-8027-0280B9ED1009.html

STRICT Lockdown mode The host can only be accessed through vCenter Server. If SSH or the ESXi Shell is enabled, running sessions for accounts in the DCUI. Access advanced option and for Exception User accounts that have administrator privileges remain enabled. All other sessions are closed

QUESTION 15

A company has requested that vSphere Virtual Machine Encryption be included in a vSphere 6.5 deployment design to meet the security requirements specified by its compliance team.

Which three design considerations would apply in this case? (Choose three.)

- A. RDM virtual machine disk configurations are NOT supported.
- B. Suspend/resume operations for an encrypted virtual machine are NOT supported.
- C. OVF Export is NOT supported for an encrypted virtual machine.
- D. Encryption performance is independent of CPU and storage speed.
- E. Cloning of encrypted virtual machine is NOT supported.

Correct Answer: BDE

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