



# 3V0-624<sup>Q&As</sup>

VMware Certified Advanced Professional 6.5 – Data Center  
Virtualization Design Exam

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**QUESTION 1**

The hardware operations team is planning to purchase new ESXi hosts for the upcoming budget year and is requesting recommendations on the type of servers to purchase for a web application. The web application consists of hundreds of small virtual machines (1 vCPU and 8GB of RAM) that are members of a software cluster.

The solution should have these abilities:

1.  
recover from ESXi host hardware failures
2.  
zero downtime for a limited number of critical virtual machines (VMs)
3.  
migrate running VMs between ESXi hosts without interruption to the operating system
4.  
perform these functions using VMware ESXi servers, vCenter Server, and high-speed network interfaces

What are the three functional requirements and their associated VMware technologies? (Choose three.)

- A. automatic restarts of failed VMs (vSphere HA)
- B. high speed network interfaces (vSphere Distributed Switches)
- C. ability to migrate running VMs (vSphere vMotion)
- D. fault tolerance for limited number of critical VMs (vSphere FT)
- E. VMware ESXi Servers (vSphere Auto Deploy)

Correct Answer: ACD

They need vSphere HA to recover VM's (web applications) from hardware failure.

They need vMotion to move VM's between hosts without interruption to OS.

They need zero downtime of Fault Tolerance (Supports up to 4 vCPU and 64GB RAM on 6.5) to support critical VM's.

There is no mention of a need for Distributed Switches (Standard Switches would meet requirements) and no mention of requirements for deployment of ESXi (Auto Deploy).

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**QUESTION 2**

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

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### QUESTION 3

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.

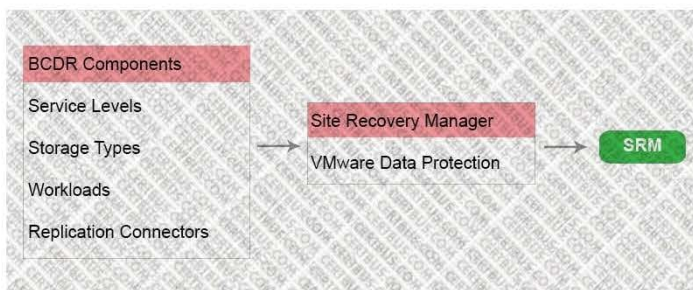
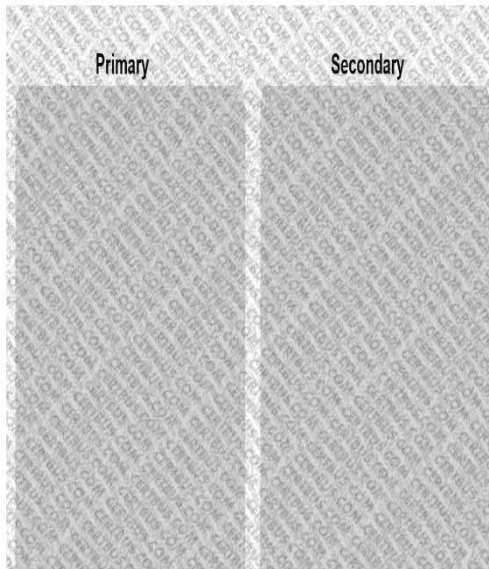
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Connect any replicated storage between the two sites using the appropriate replication connector.

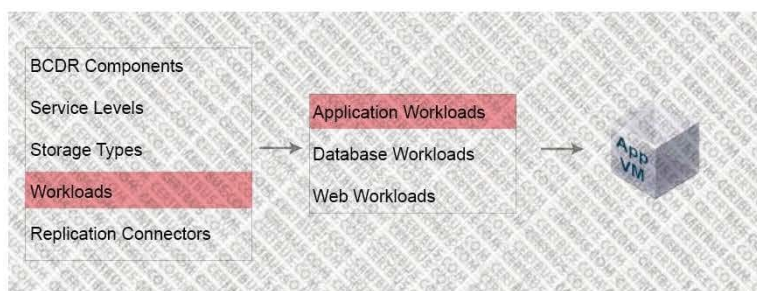
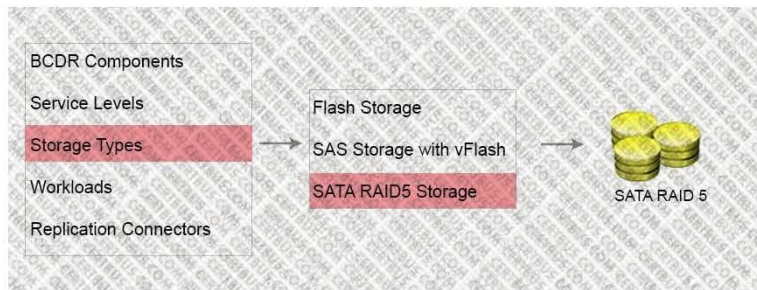
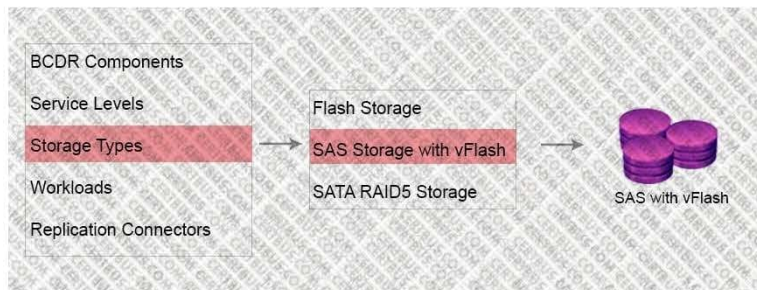
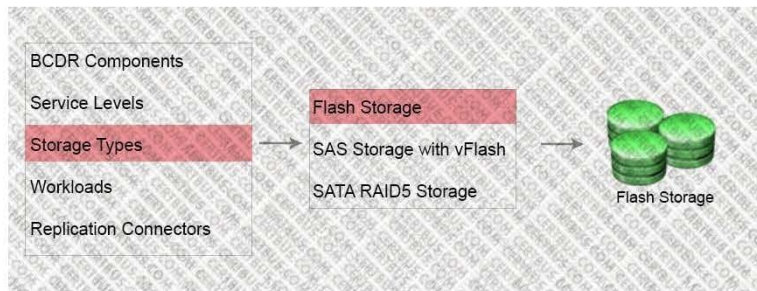
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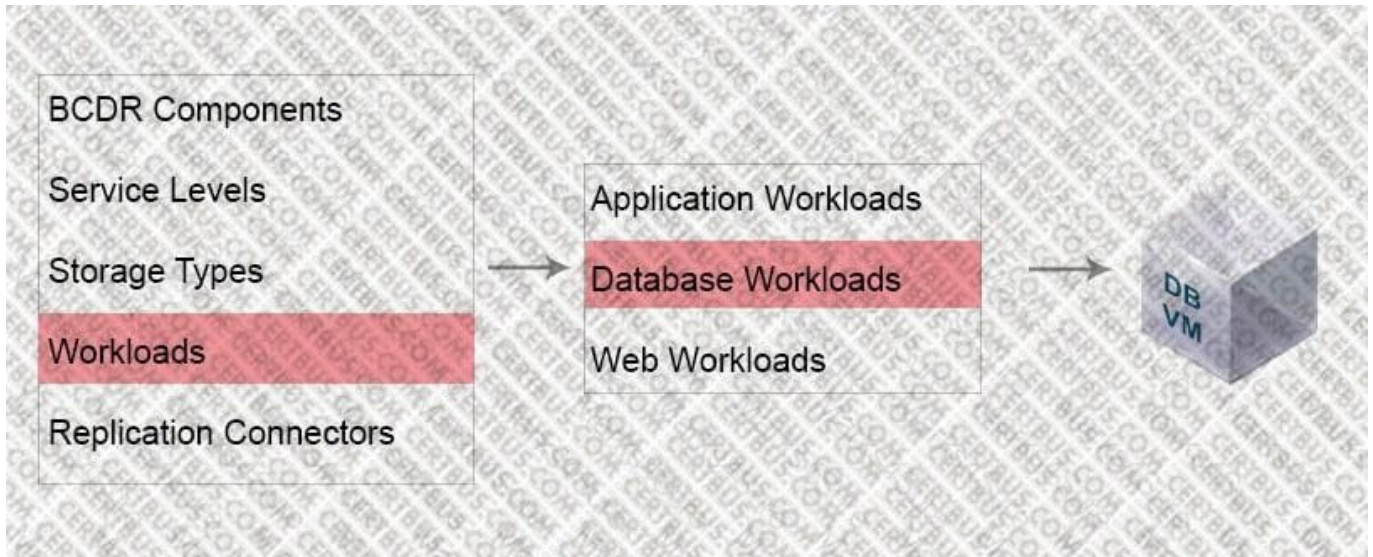
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Correct Answer: A

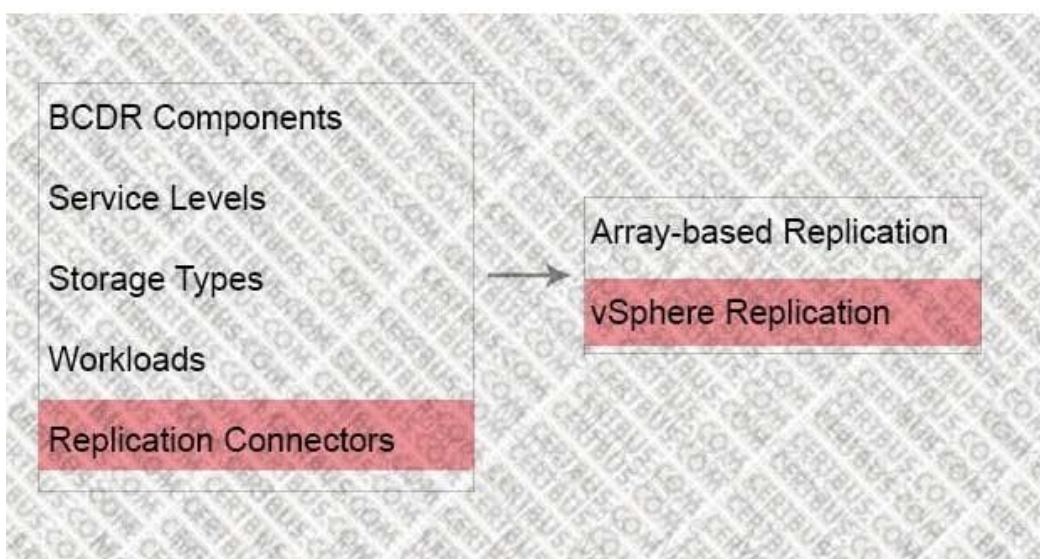
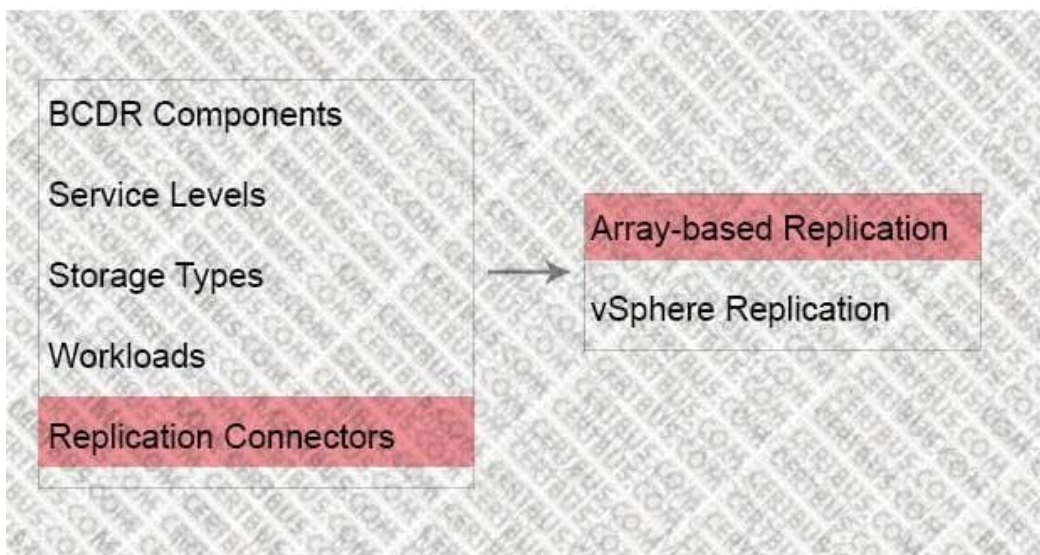






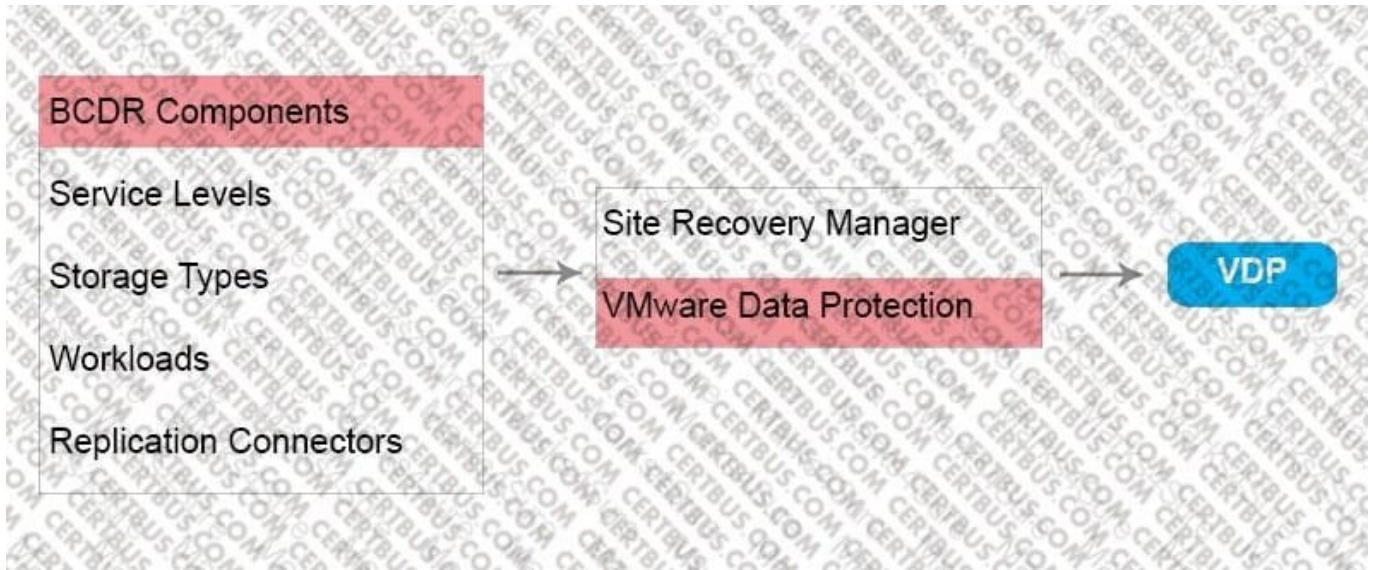


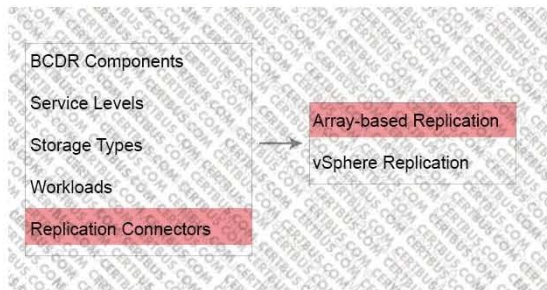
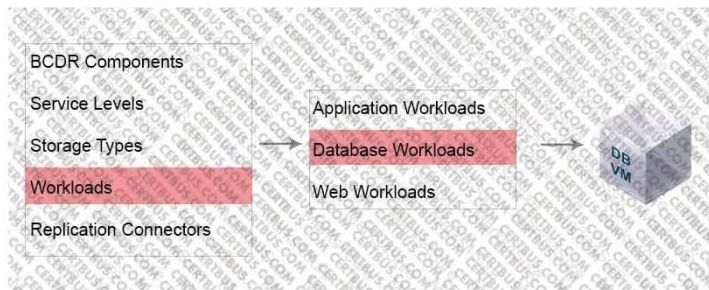
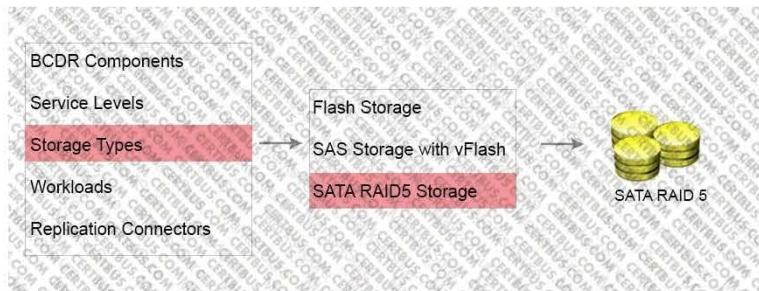




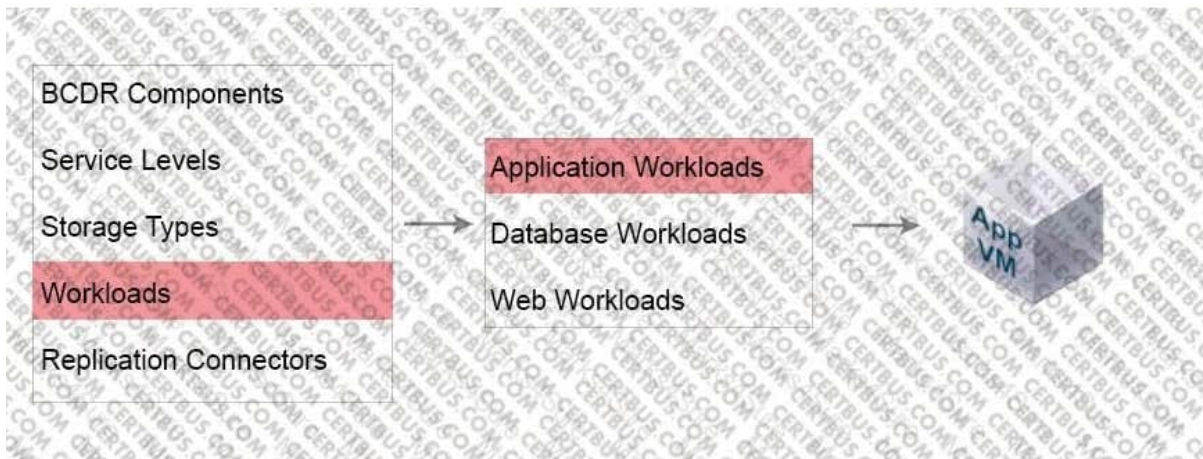
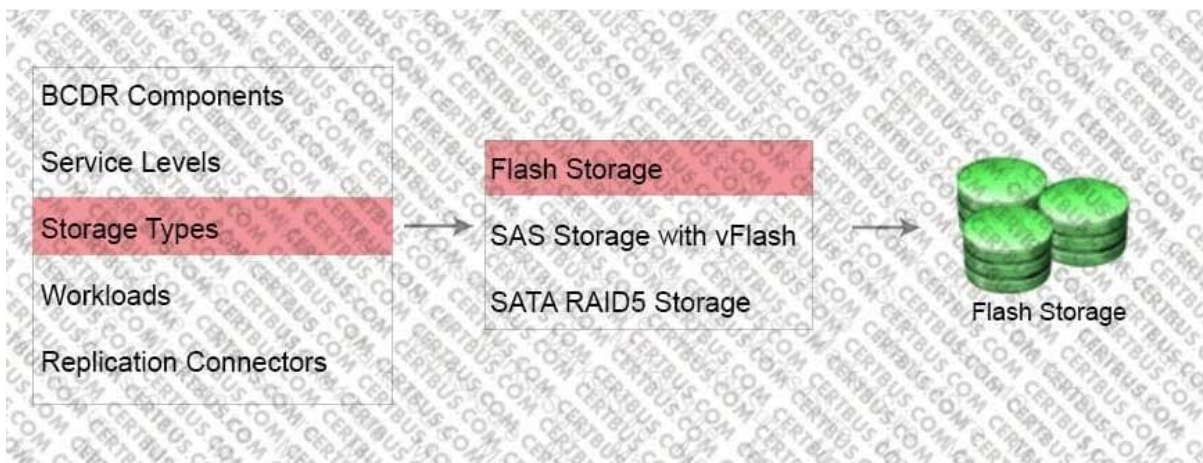
Check below for answer solution: Primary





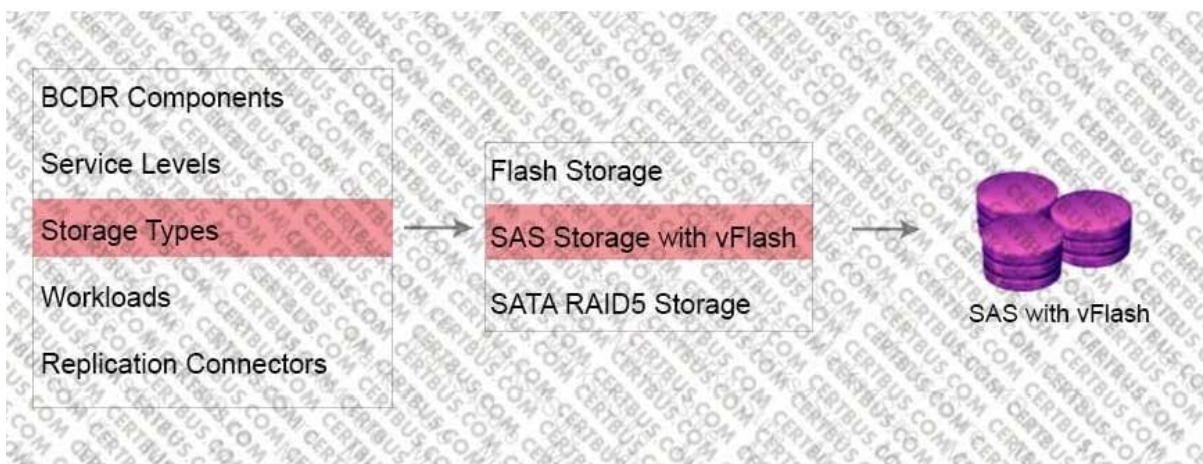
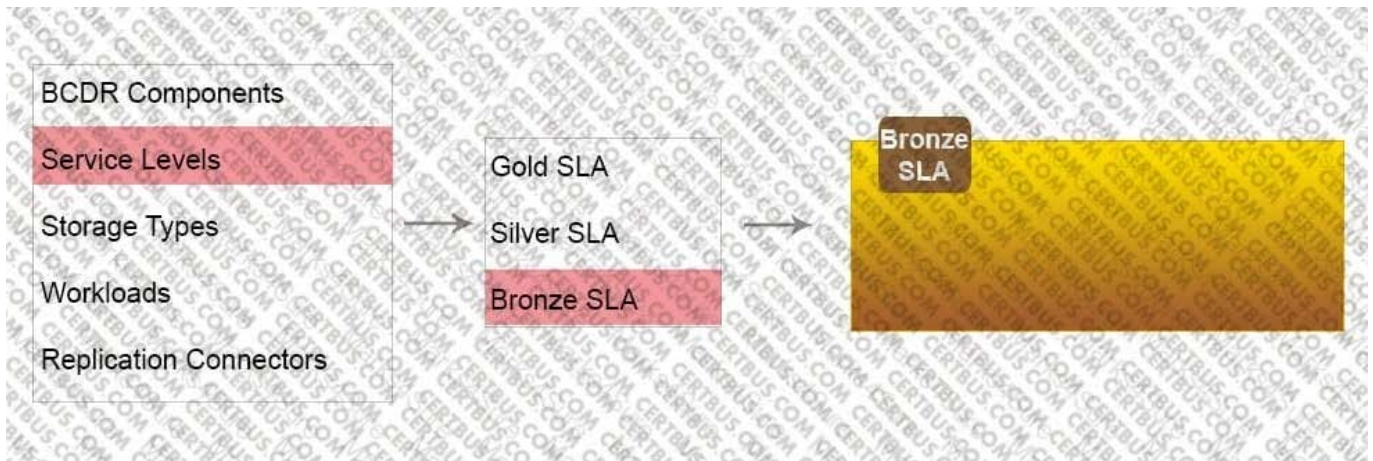


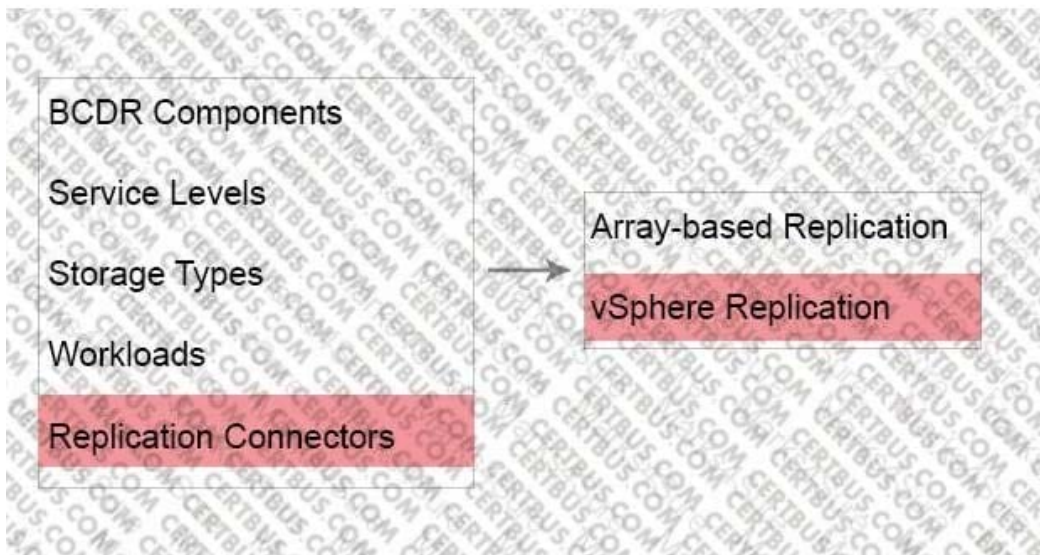
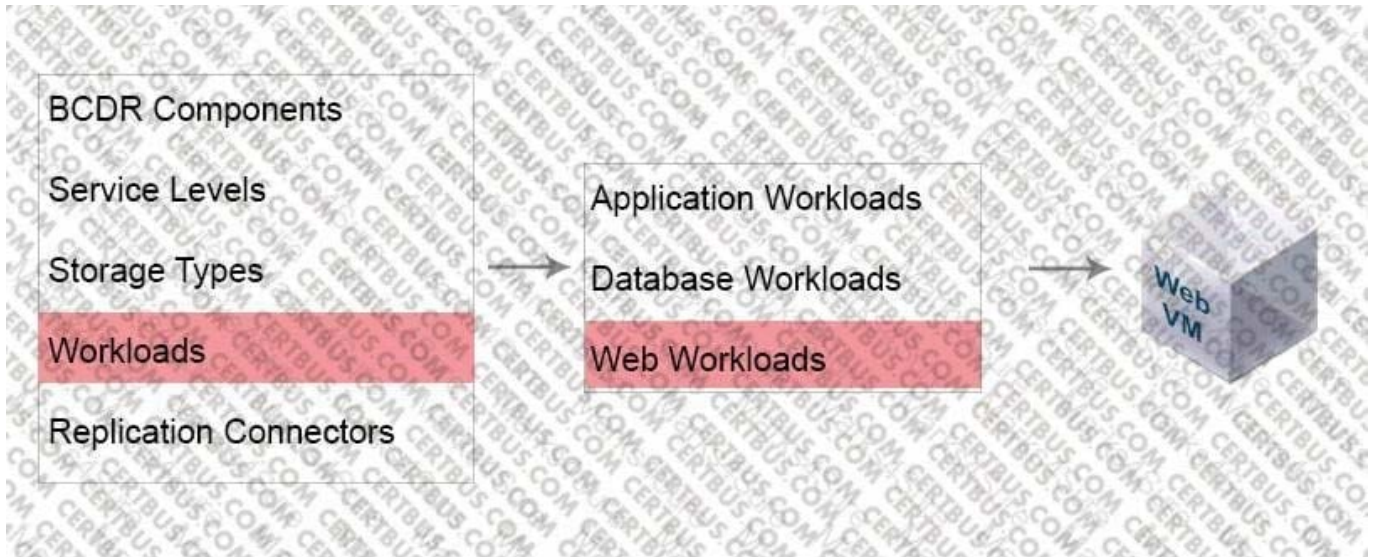




Secondary







#### QUESTION 4

A virtualization architect has been tasked with estimating the infrastructure, licensing, and application costs for a customer's design. The customer's CEO is also interested in knowing CAPEX and OPEX, return on investment, and comparisons. Match the tool with the solution.

Select and Place:



Storage virtualization	End User Computing Bus Calculator
Desktop virtualization	Any inventory collection
Compute virtualization	vSAN TCO and Sizing Calculator
Resource planning	TCO Comparison Calculator

Correct Answer:

	Desktop virtualization
	Compute virtualization
	Storage virtualization
	Resource planning

## QUESTION 5

A university is going through an IT transformation project and is re-evaluating how to use technology to provide a better academic experience for its 15,000 students. The university is a current VMware customer and has a single data center.

1.

Within that data center, they are using blade servers backed by a Fibre Channel array for its business critical applications, and two iSCSI arrays (one for the development environment and one for the non-critical production environment).

2.

Its VMware environment consists of three clusters. The first cluster contains all development virtual machines, the second cluster is dedicated to DMZ virtual machines (VMs), and the final cluster contains production VMs.

3.

The university requires the ability to perform hardware maintenance without a service interruption, and can sustain only 4 minutes of downtime per month.

From the list below, which two are non-functional requirements? (Choose two.)





- A. Projected growth has been calculated by reviewing the last five years of actual growth.
- B. Provide for N+1 redundancy to support the environment during the maintenance window.
- C. There is sufficient power and cooling in the current data center.
- D. 99.99% uptime for the environment.
- E. The WAN provider meets their SLA.

Correct Answer: BD

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