3V0-624Q&As

VMware Certified Advanced Professional 6.5 – Data Center Virtualization Design Exam

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Following Questions and Answers are all new published by VMware Official Exam Center

QUESTION 1

When considering server consolidation, plan on running _____ vCPUs per core.

A. 1 to 2

B. 3 to 4

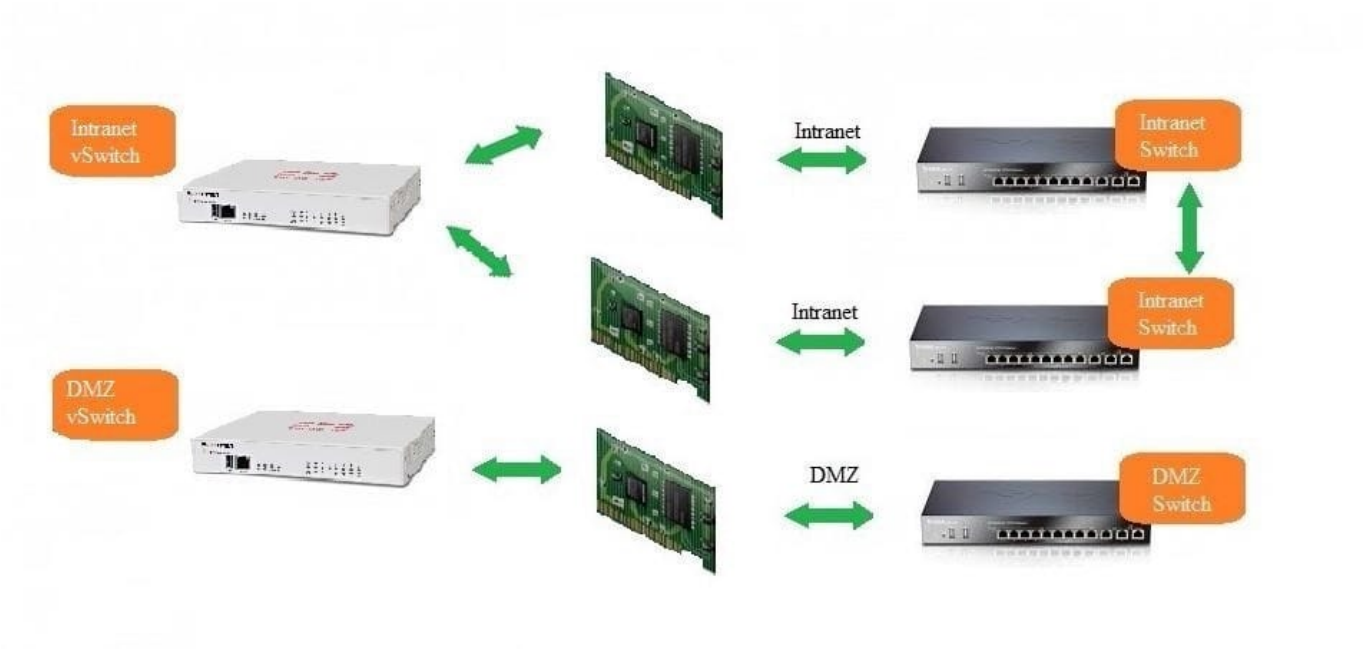
C. 4 to 6

D. 6 to 8

Correct Answer: A

QUESTION 2

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

Correct Answer: BD

QUESTION 3

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

1.

The CIO has stated that the new ESXi cluster should be deigned with enough failover capacity to sustain two ESXi host failures.

2.

Six ESXi hosts have been approved for this workload.

3.

The ESXi hosts are to be purchased from Dell with these specifications:

4.

2x10 core 2.2GHz Intel CPU

5.

128 GB of memory

6.

The workload is defined as 150 employee desktop virtual machines each with 3GB RAM reserved.

7.

All virtual machines should be protected by vSphere High Availability

Which are two true statements regarding failover capacity? (Choose two.)

A. vSphete HA can be configured to reserve 25% of memory capacity for failover.

B. vSphete 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.

Correct Answer: BC

You have the option in vSphere HA to reserved any number of hosts /or % of memory resources (1/3 = ~35%).

These both enforce the CIO requirements.

A) Memory reserved is not enough to sustain 2 hosts failure

B) Yes, requirements are to sustain 2 hosts failure. Dedicating 2 hosts would leave a total usable memory of 512 GB, which is enough to cover 450GB of VMs memory.

C) Yes, if you want to sustain 2 hosts failure you need to reserve the same amount of memory contribution of those hosts. In this case, 2 hosts out of 6 it\\'s 1/3 = 33.3%. So rounding up to 35% is correct.

D) No, solution needs to sustain 2 hosts failure

QUESTION 4

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)

Correct Answer: A

A VASA VM should definitely not run on a vVol as it is then dependent on itself. Similarly, the VASA VM is dependent on vCenter, so both should be kept on a standard VMFS or NFS volume. If you have vCenter on a vVol, and both VASA VM and vCenter go down you are SOL.

"You should not run VASA Provider on a VVOL datastore. Any management operation, including powering on a virtual machine that is on a VVOL, requires that VASA Provider be running. In addition, you would lose access to all VVOLs because VASA Provider would not be able to boot."

https://library.netapp.com/ecmdocs/ECMP12405937/html/GUID-5B810B73-0233-4F3B-80BE-47A415D2F107.html

QUESTION 5

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.

Correct Answer: CD

Workloads that are constantly using resources would prevent other VMs from accessing them, causing performance issues. Instead, if they use little and spend time waiting then resources are available for other.

QUESTION 6

A company is implementing a new vSphere 6.5 environment in order to virtualize one of its business-critical applications.

1.

The existing data center equipment is over five years old and the operating system for most of the virtual machines will be end-of-life next quarter.

2.

The database servers are physical and are also over 5 years old.

3.

The 12 current application virtual machines are configured with two vCPUs, 16GB of memory, and 60GB of storage each.

4.

The database administrator states that the 16 existing database servers are quad socket systems with 64 logical processors, 256GB of memory, and a total of 230TB of storage in use.

5.

The system administrator insists that the new virtual machines must be the same size.

In this scenario, which option is a non-functional application requirement?

A. The operating system must also be upgraded.

B. The storage array must have more than 230TB of high-performance storage.

C. The ESXi hosts must have 64+ logical processors and 1TB of memory.

D. The application virtual machines must be configured with two vCPUs, 16GB of memory, and 60GB of storage.

Correct Answer: D

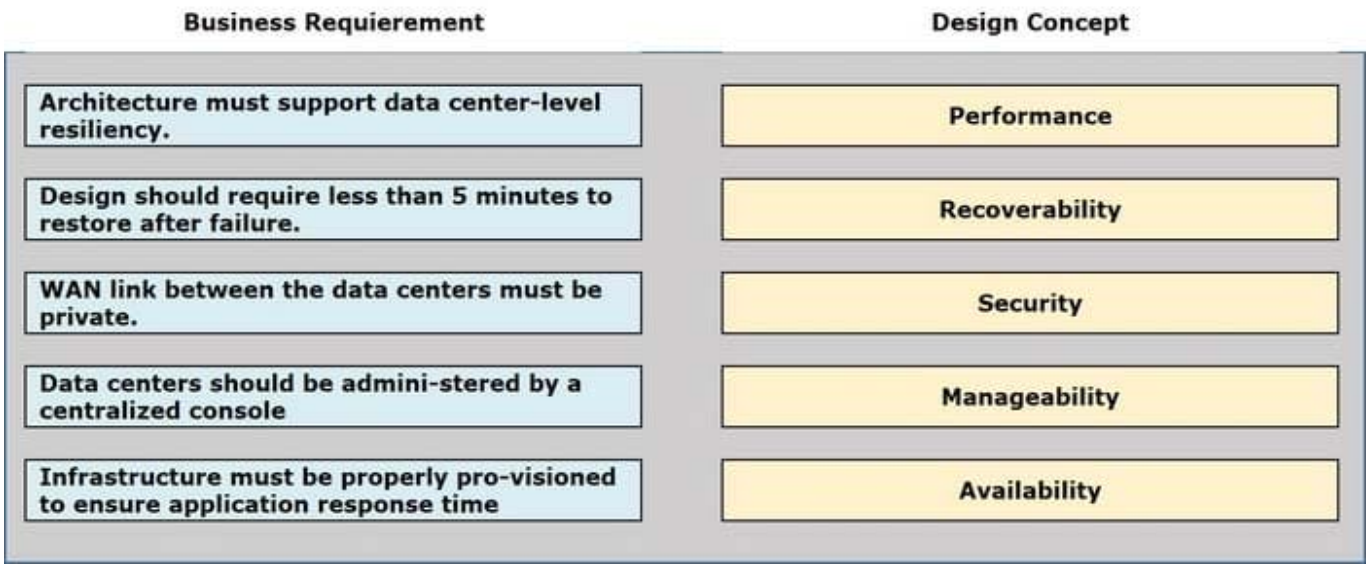
QUESTION 7

A company is a leading provider for an online travel booking system with over a $1,000,000 turnover each day. The company warns to leverage VMware cloud solutions to consolidate, scale, and ensure high availability for all of its data

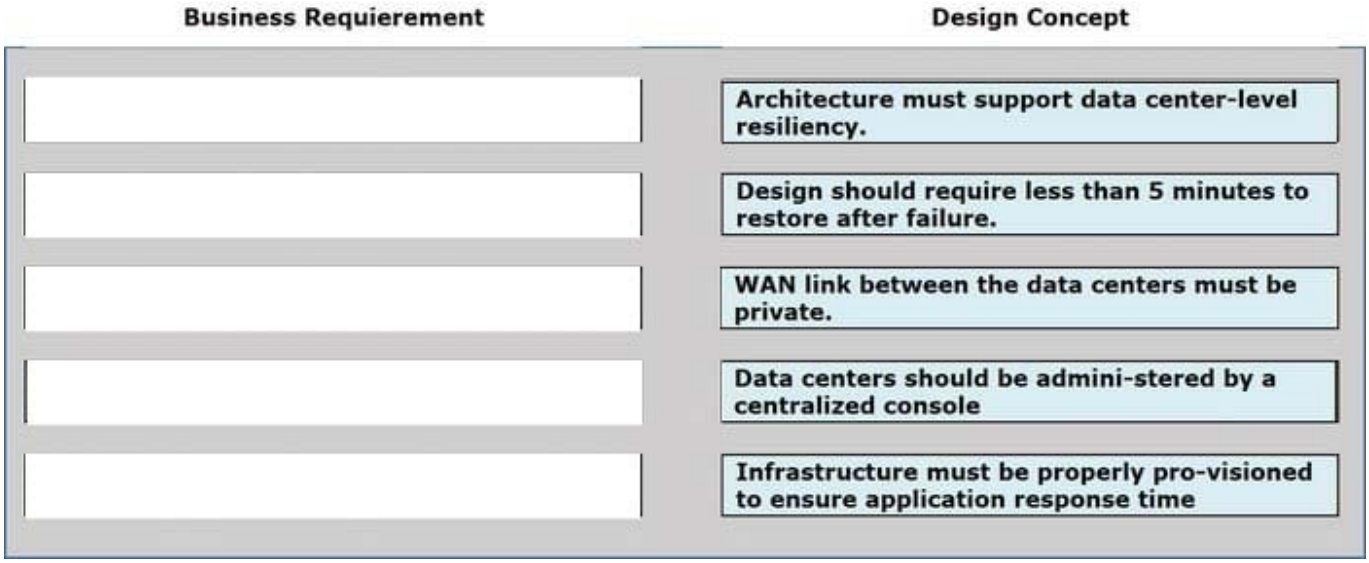
centers.

Match each business requirement to its appropriate design concept.

Select and Place:



Correct Answer:



QUESTION 8

A company wants to use All-Flash vSAN as storage for its virtual environment on six hosts. When creating the storage policies for the virtual machine, this company requirements are:

1.

The virtual machine data must be available in the event of 2-node failure.

2.

The virtual machine will use as little overhead as possible.

3.

The virtual machine will be allocating 50GB of 100GB, configured upon creation.

To meet these requirements, what does the storage policy look like?

A. Number of failures to tolerate = 1 Object space reservation = 50% Disable object checksum = No Failure tolerance method = RAID 5/6

B. Number of failures to tolerate = 2 Object space reservation = 50% Disable object checksum = Yes Failure tolerance method = RAID 5/6

C. Number of diskstripes per object = 2 Object space reservation = 10% Flash read cache reservation = 50% Failure tolerance method = RAID 5/6

D. Number of failures to tolerate = 2 Object space reservation = 10% Flash read cache reservation = 50% IOPS limit for object = 1000

Correct Answer: B

https://vsan-essentials.gitbooks.io/vsan-6-2/content/chapter4.html

QUESTION 9

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

QUESTION 10

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.

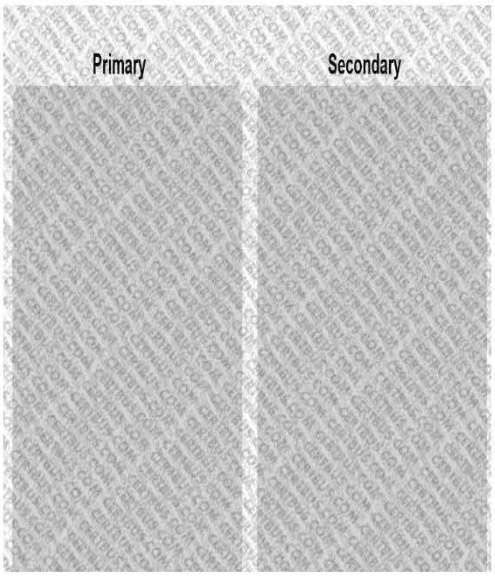
- Place the appropriate BCDR components into the SLA containers.

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

A.

Check the answer in explanation.

Correct Answer: A

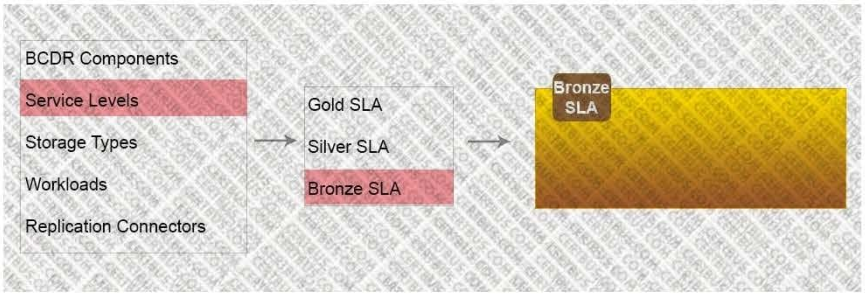

Primary
Secondary

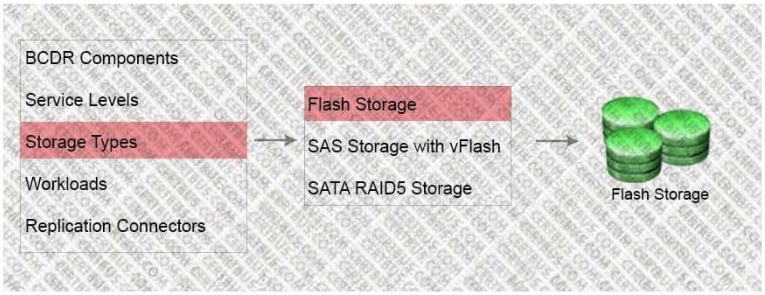

BCDR Components
Service Levels
Storage Types
Workloads
Replication Connectors
Site Recovery Manager
VMware Data Protection
SRM


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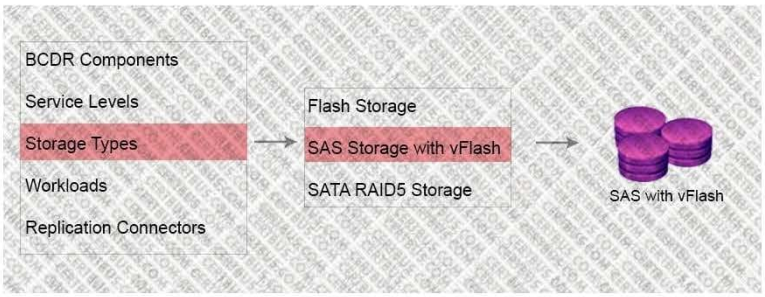
Flash Storage
SAS Storage with vFlash
SATA RAID5 Storage
Flash Storage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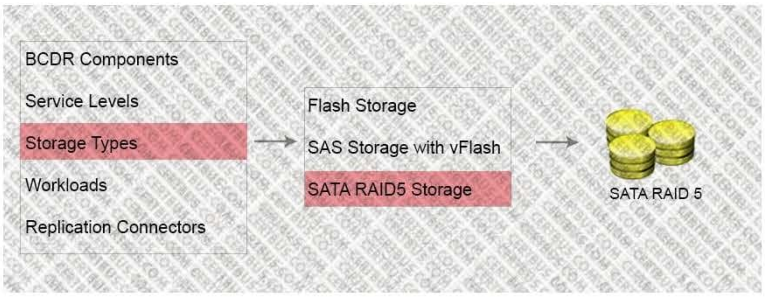
SAS with vFlash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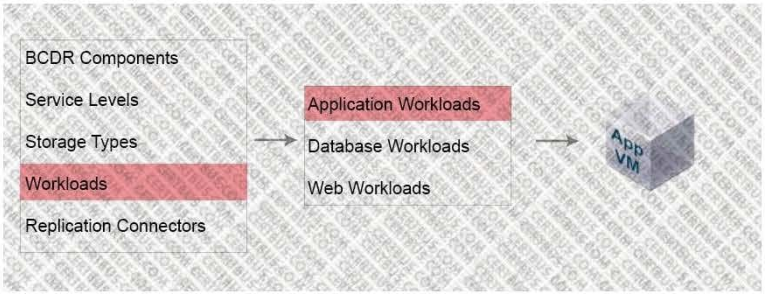
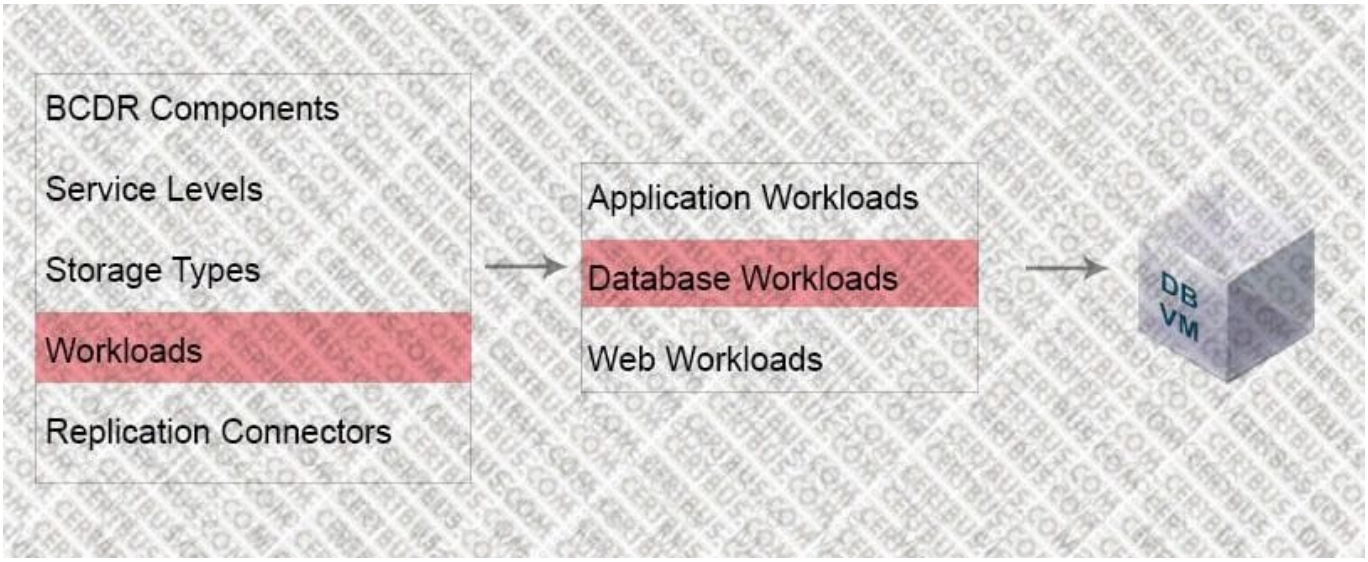
SATA RAID 5


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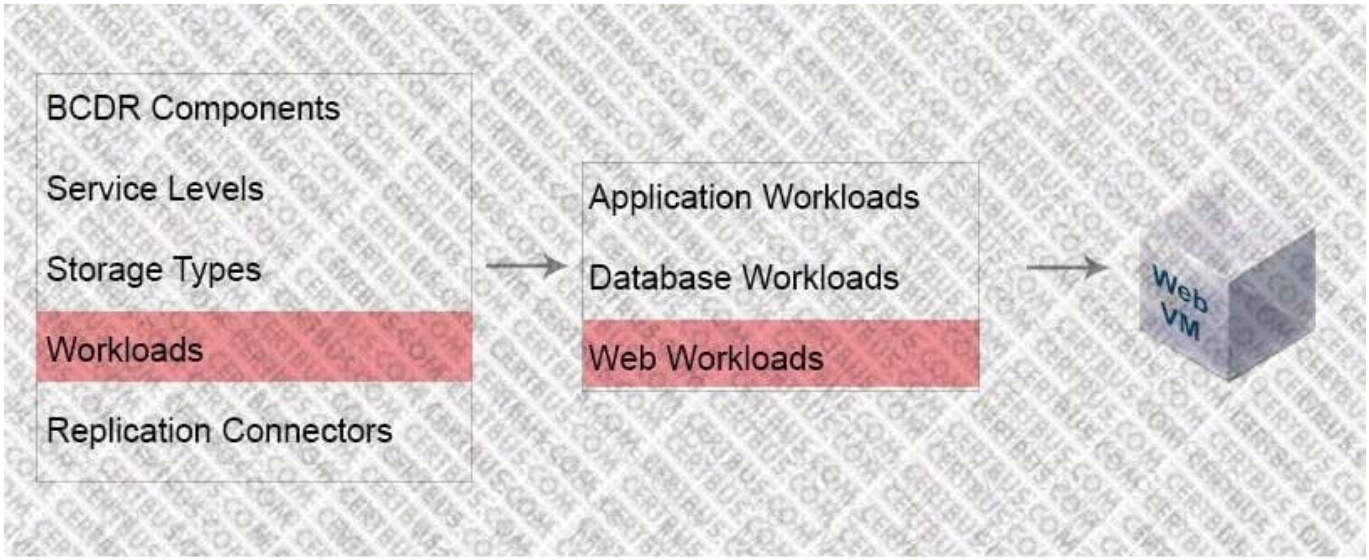
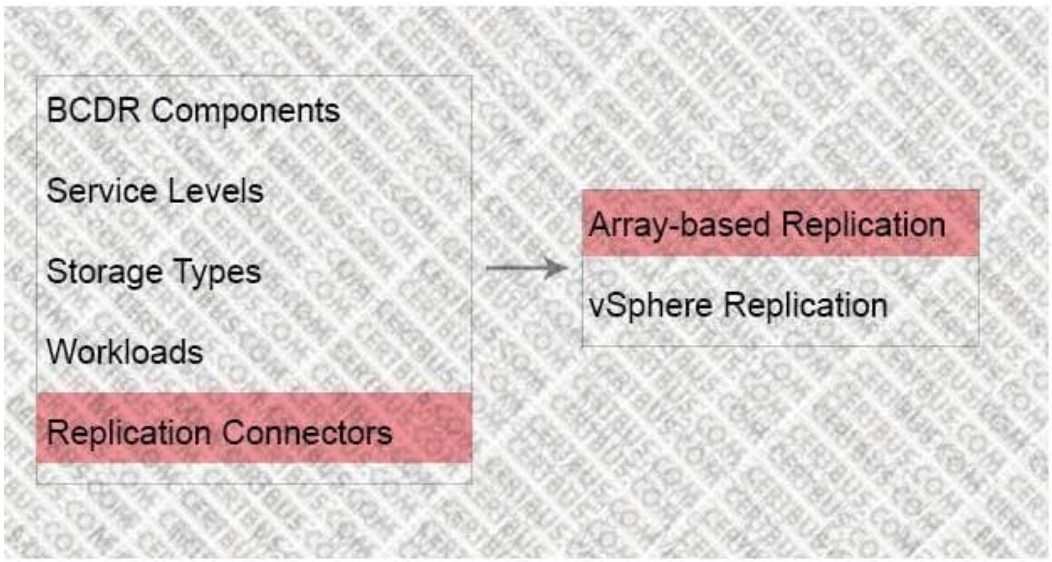
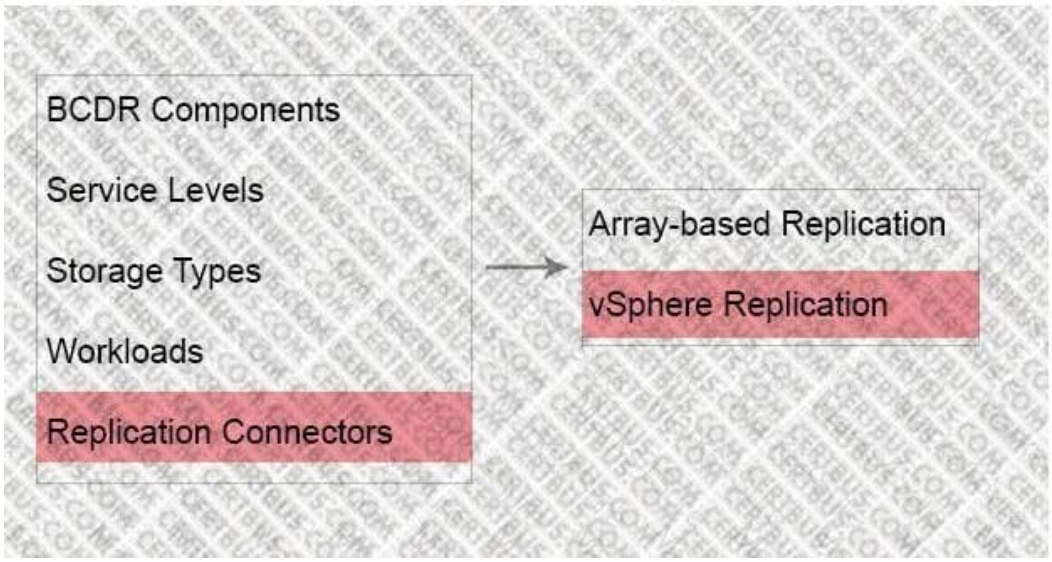
DB VM







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
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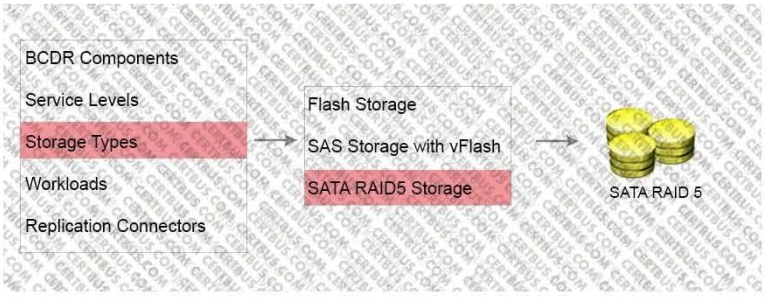
Replication Connectors
Gold SLA
Silver SLA
Bronze SLA
Gold SLA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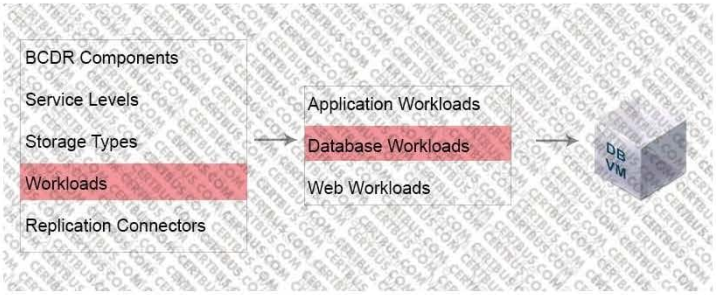
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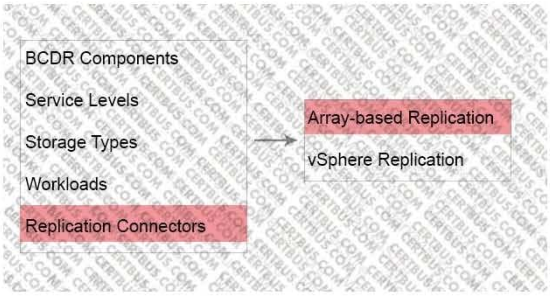
Web Workloads
DB
VM


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


BCDR Components
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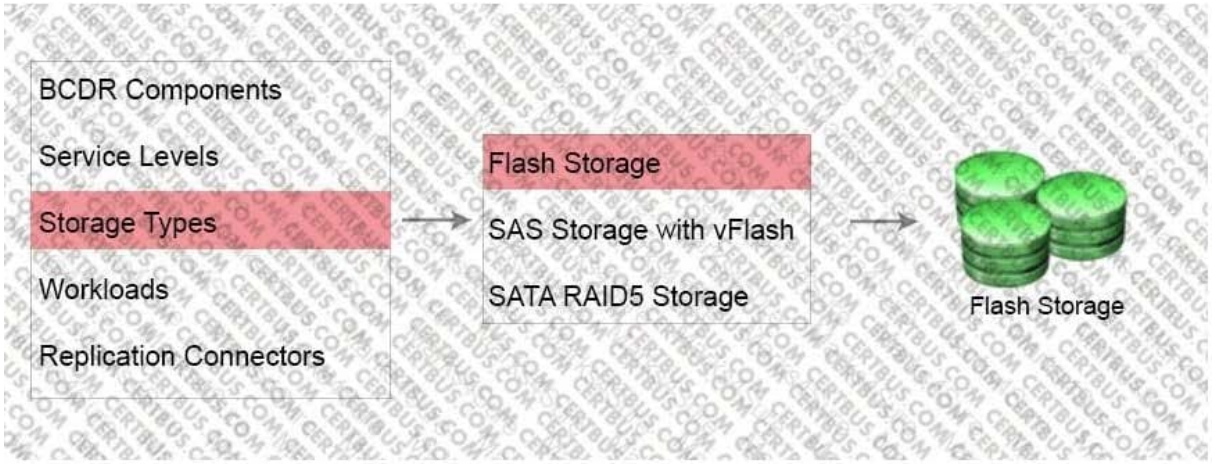
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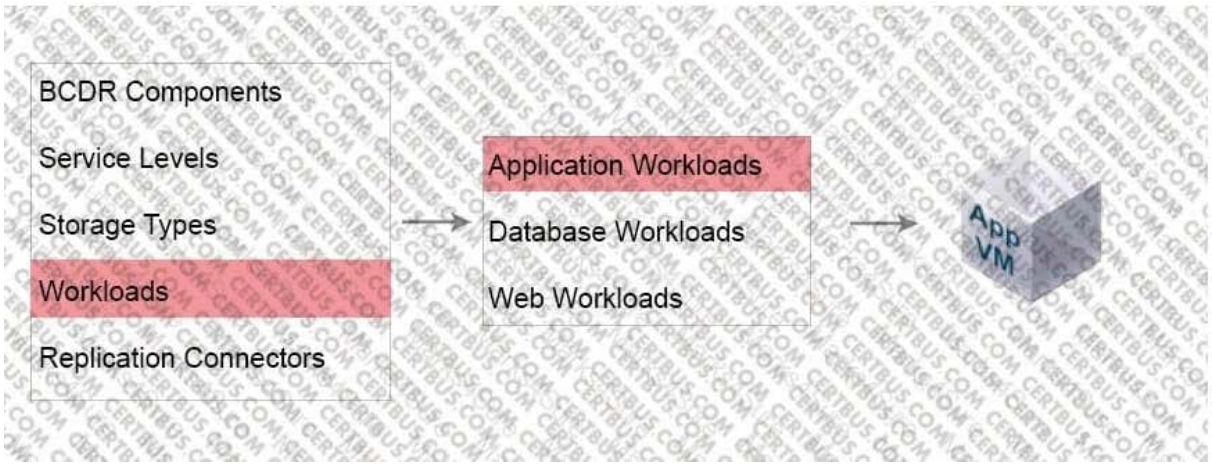
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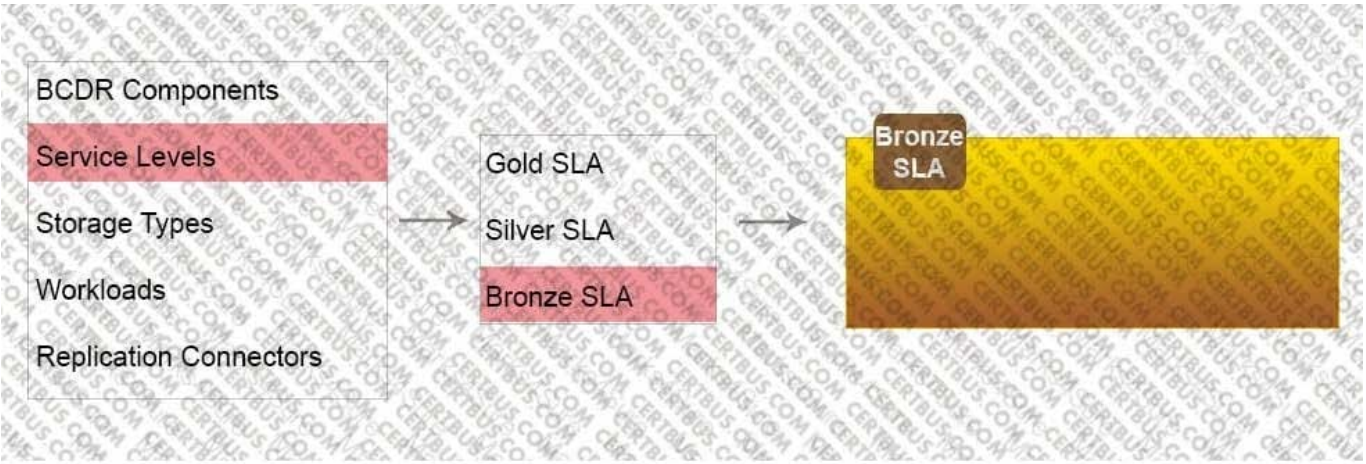
Secondary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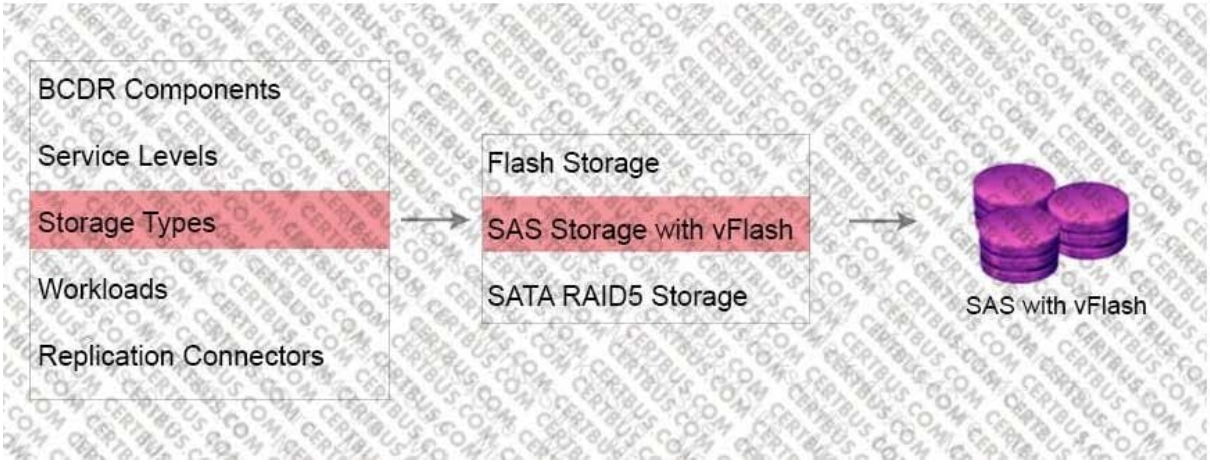
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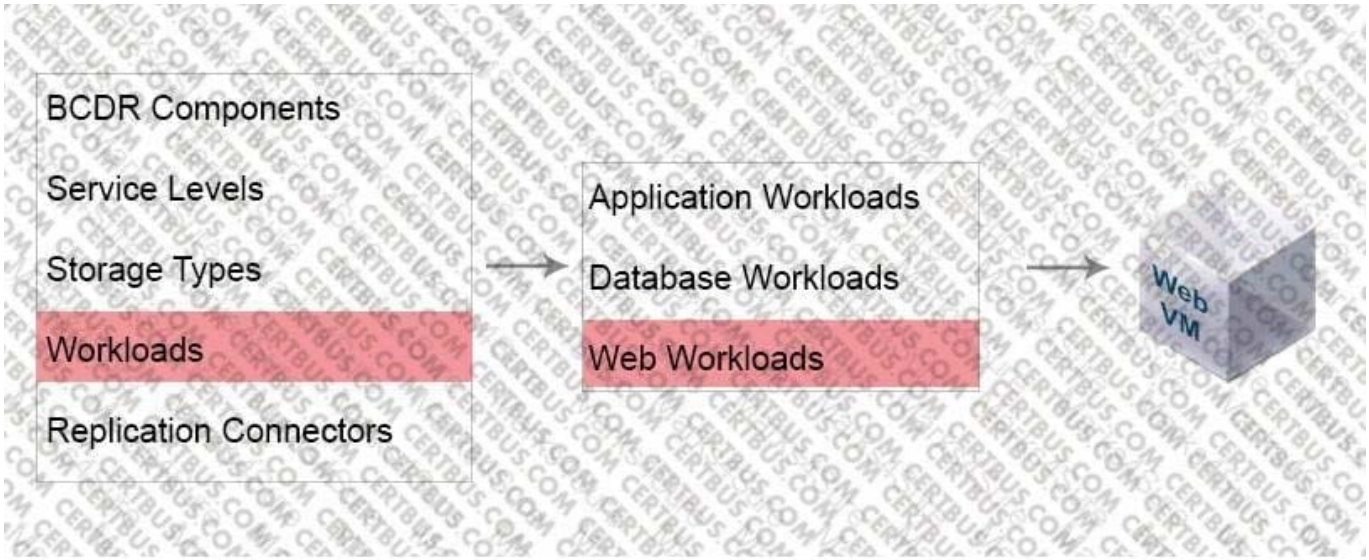
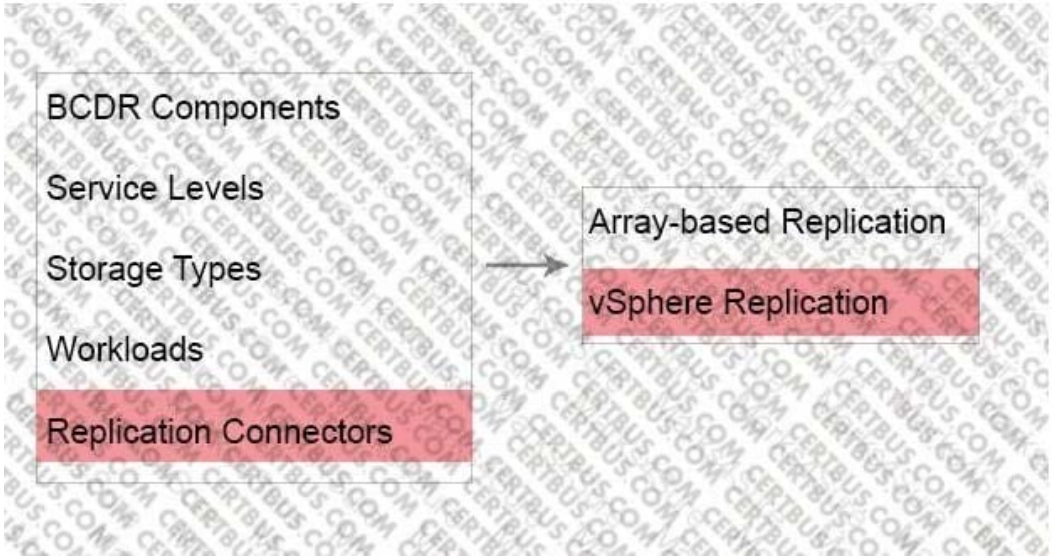




QUESTION 11

A business organization has different types of network traffic, and all the types of traffic must be kept separated. The design architect knows that the number of required networks is greater than the number of physical ports in the system.

Which three choices can the architect use to keep the traffic separated? (Choose three.)

A. Combine vMotion, Management, and vSAN to one VMkenel port.

B. Configure VLANs to create separate networks.

C. Purchase hardware that supports a greater number of network ports.

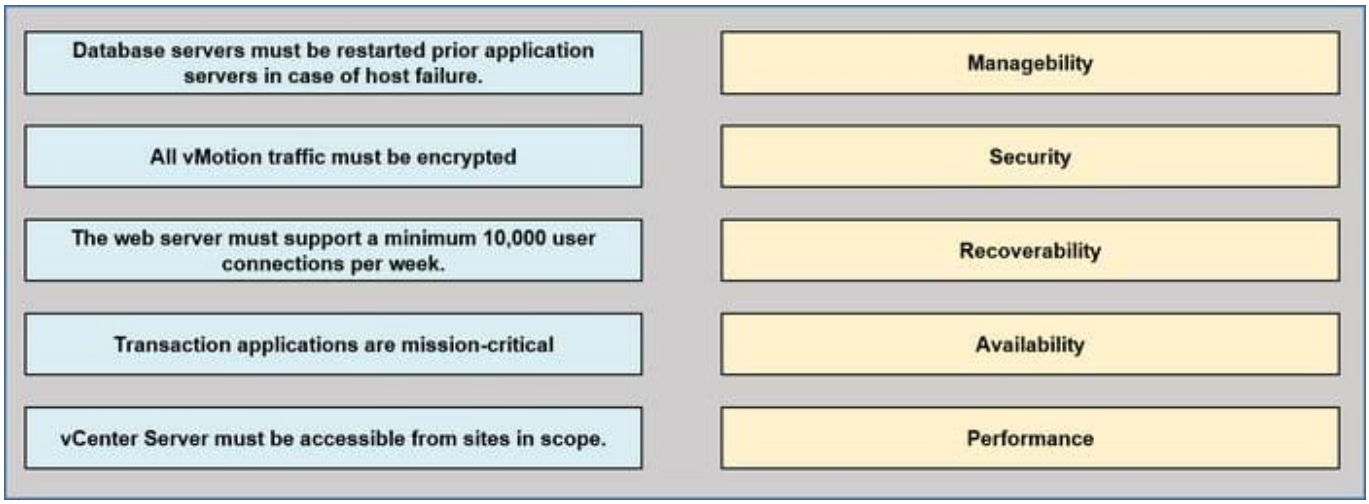
D. Utilize Private VLANs.

Correct Answer: BCD

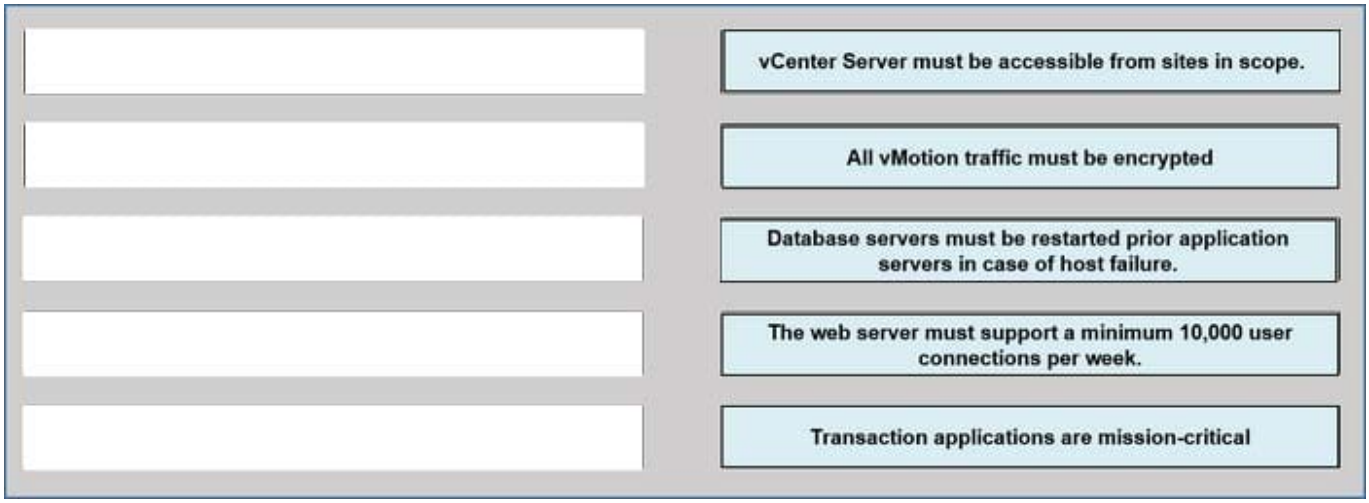
QUESTION 12

Match the design characteristic to the appropriate concept.

Select and Place:



Correct Answer:



QUESTION 13

A company has developers located in Eastern Europe (EE) and a QA Department in Bermuda.

1.

The company is planning to create an environment based on a blueprint of 4-8 virtual machines for each of the developers and one for every QA project.

2.

The proposed configuration will allow each developer to work independently and be able to collapse and re-create the

environment as needed.

3.

QA Teams will be able to recreate the environment that is required for a specific application.

4.

Individual virtual machines in the blueprint are being continually updated with newly available software packages.

5.

The company is planning to use the vSphere Content Library to store images and synchronize them between sites.

Which four supported configurations can the company implement? (Choose four.)

A. EE and Bermuda libraries that are backed by an NFS file system.

B. EE and Bermuda vCenter Servers with Enhanced Linked Mode.

C. FTP protocol to transfer data between published in EE and subscribed in Bermuda libraries.

D. Published library in EE backed by an NFS file system while subscribed library in Bermuda is backed up by datastore.

E. A minimum 10 GbE connection between EE published and Bermuda subscribed libraries is required.

F. EE and Bermuda vCenter Servers without Enhanced Linked Mode.

Correct Answer: ABDF

You can eliminate C and E as FTP isn\\'t supported natively and without more information there is no need for a 10GbE connection. 1GbE may suffice. Not to mention a 10GbE connection between EE and Bermuda would be nearly impossible and if it even is that would be completely cost-prohibitive. At that point it\\'s cheaper to move your entire QA team to EE ?or even better, move your whole operation to Bermuda.

10Gbps is not a requirement, and you can only store the items either on VMFS or NFS: https://pubs.vmware.com/vsphere-6-5/index.jsp?topic=%2Fcom.vmware.vapi.progguide.doc%2FGUID-0B234875-EEEB-4982-9FC1-4DE6B071BDC9.htmlGreat link provided by Megalodon.

QUESTION 14

The number of virtual machines running on a storage device can impact storage throughput and latency. Which two VMware-recommended datastore designs will optimize performance? (Choose two.)

A. Distribute VM templates and virtual machines across different datastores.

B. Place VM templates and virtual machines on the same LUN to balance the load.

C. Provision the largest possible LUN size and place as many virtual machines as possible on it.

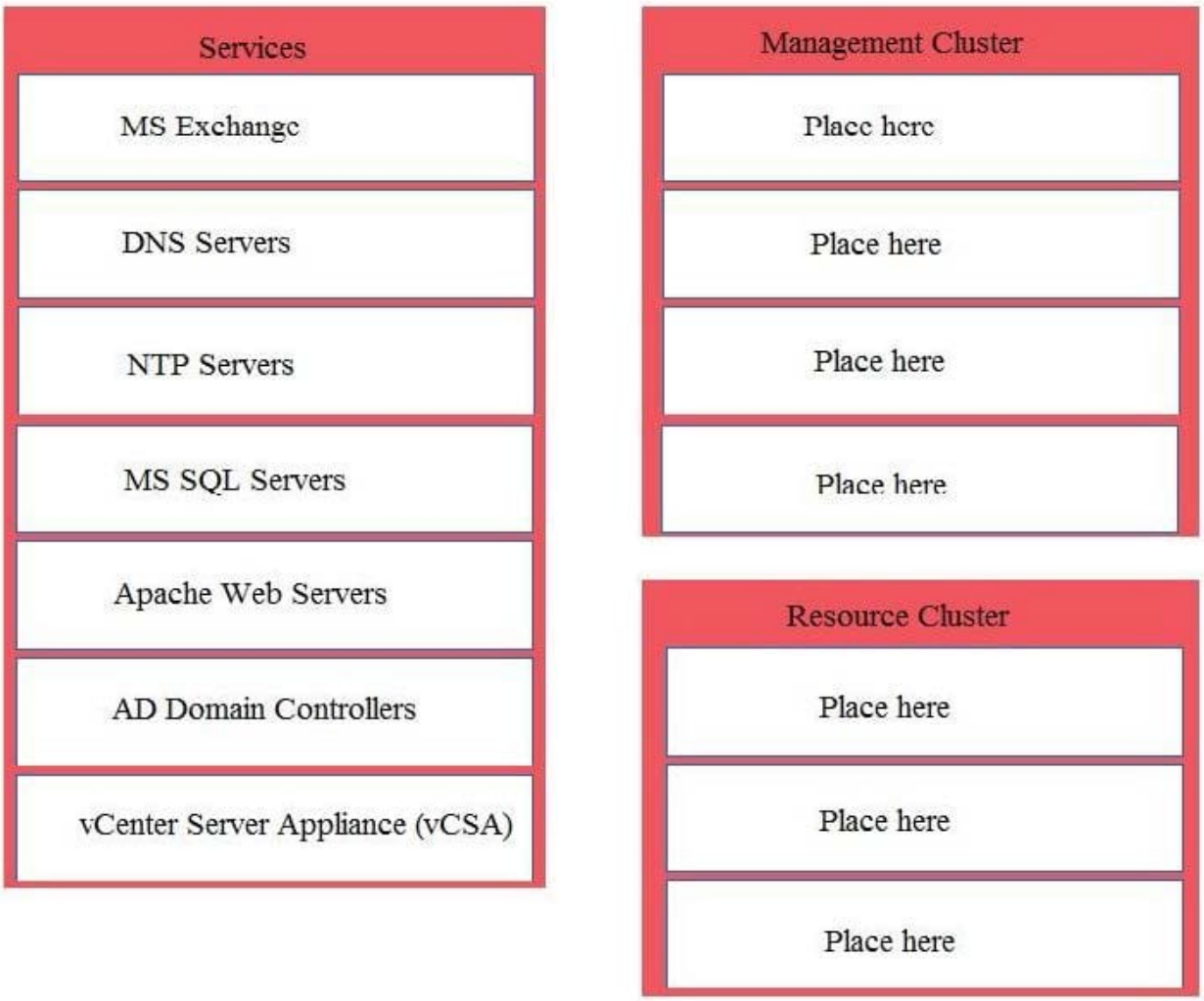
D. Provision more LUNs, with fewer virtual machines on each one.

Correct Answer: AD

QUESTION 15

According to VMware-recommended best practices, on which cluster should each of the services be placed?

Select and Place:



Correct Answer: