

VMware

Exam Questions 3v0-624

VMware Certified Advanced Professional 6.5 - Data Center Virtualization Design Exam



NEW QUESTION 1

A development team must provide layer 2 network isolation between virtual machines that are in the same VLAN. The solutions architect must provide additional security between the virtual machines on the same subnet.
 How can this be done without consuming more VLANs?

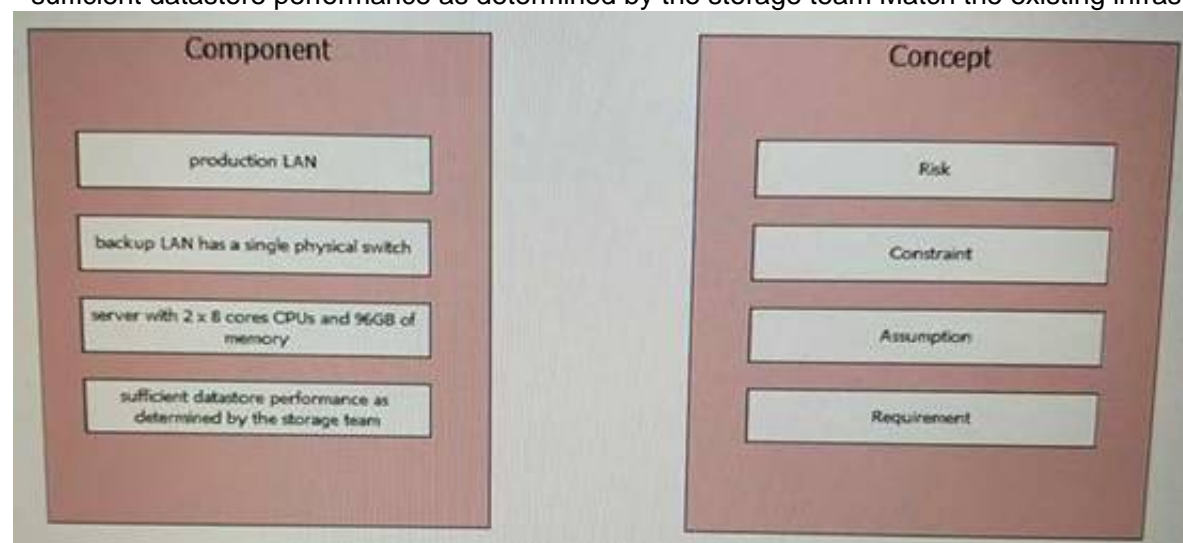
- A. Use Virtual Switch Tagging
- B. Use Private VLANs.
- C. Use Virtual Guest Tagging.
- D. Use External Switch Tagging.

Answer: B

NEW QUESTION 2

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

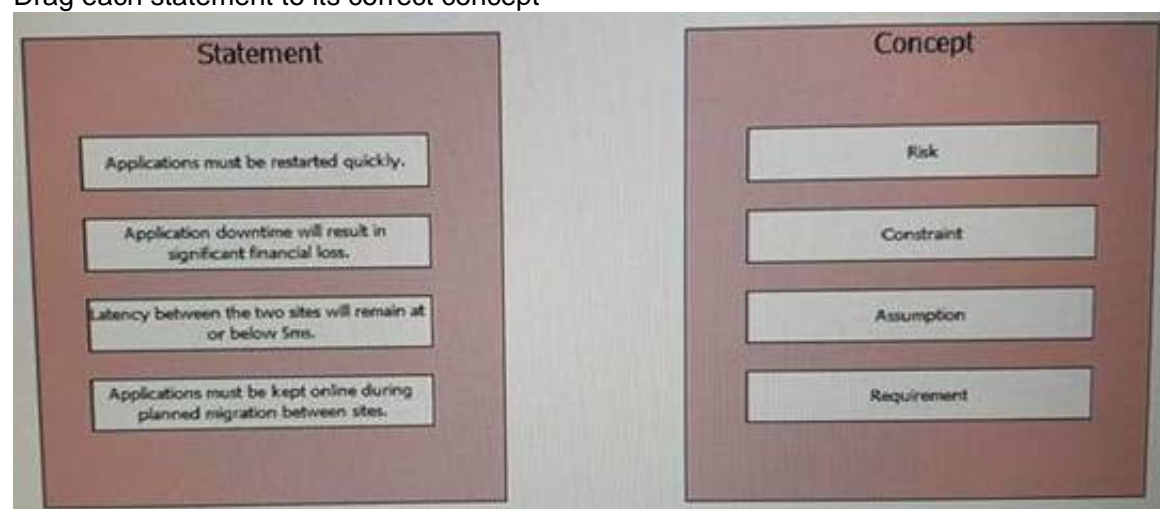
NEW QUESTION 3

A 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

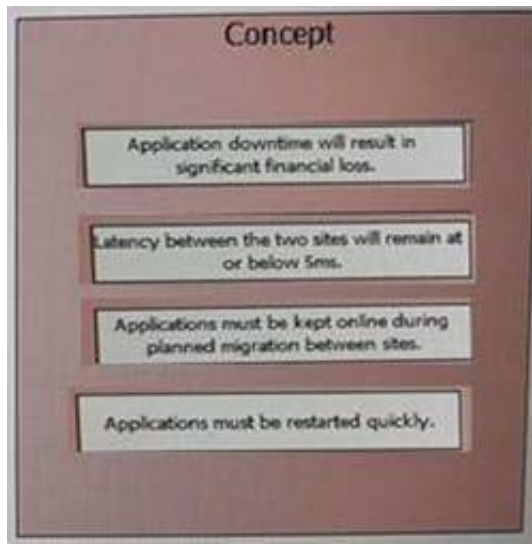
Drag each statement to its correct concept



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



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 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 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.)

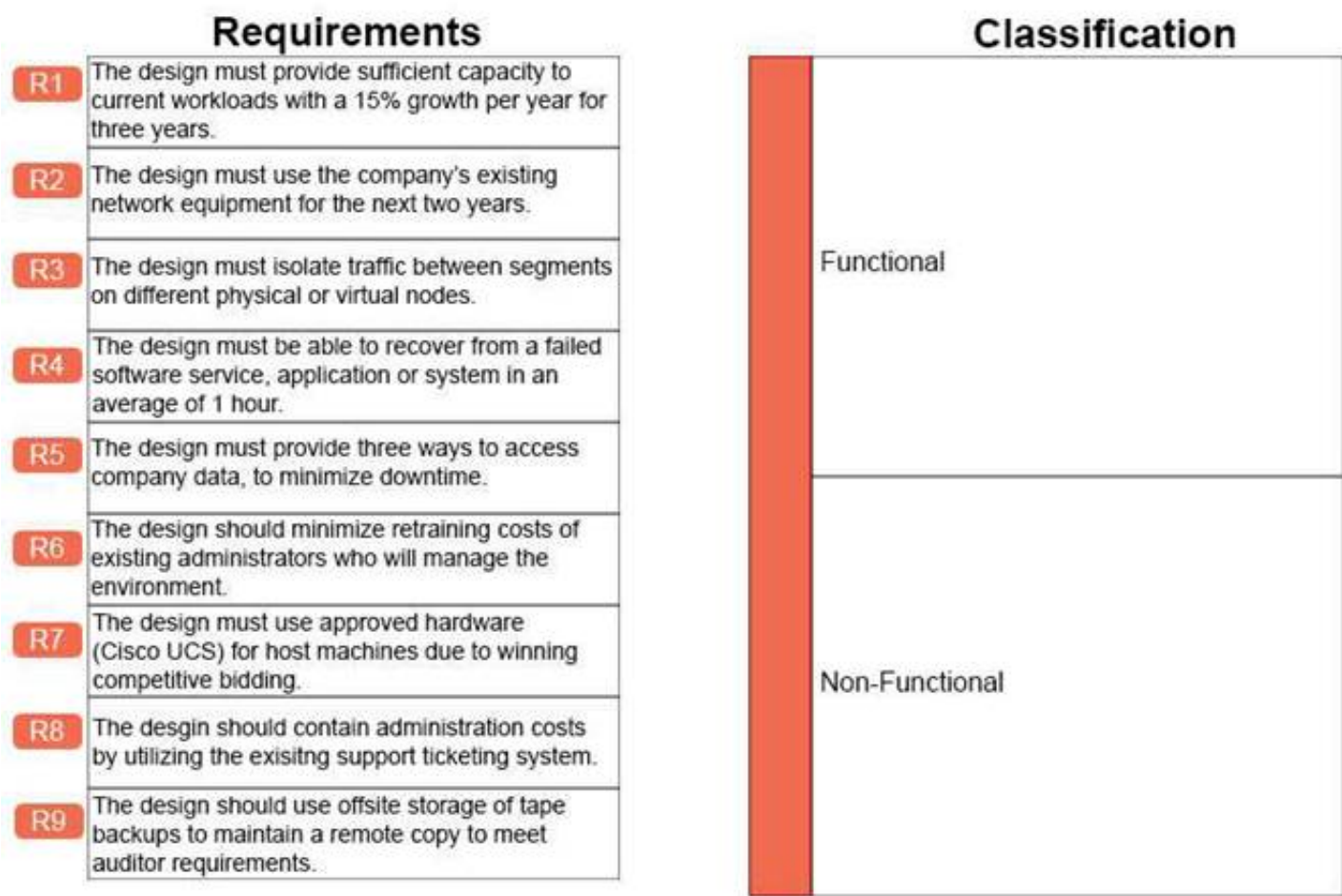
- A. vSphere HA can be configured to reserve 25% of memory capacity for failover.
- B. vSphere HA can be configured to specify two dedicated failover hosts.
- C. vSphere HA can be configured to reserve 35% of memory capacity for failover.
- D. vSphere HA can be configured to specify one dedicated failover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

Answer: BC

NEW QUESTION 6

You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has provided information via requirements gathering. Evaluate each statement and determine if the requirement is functional or non-functional.

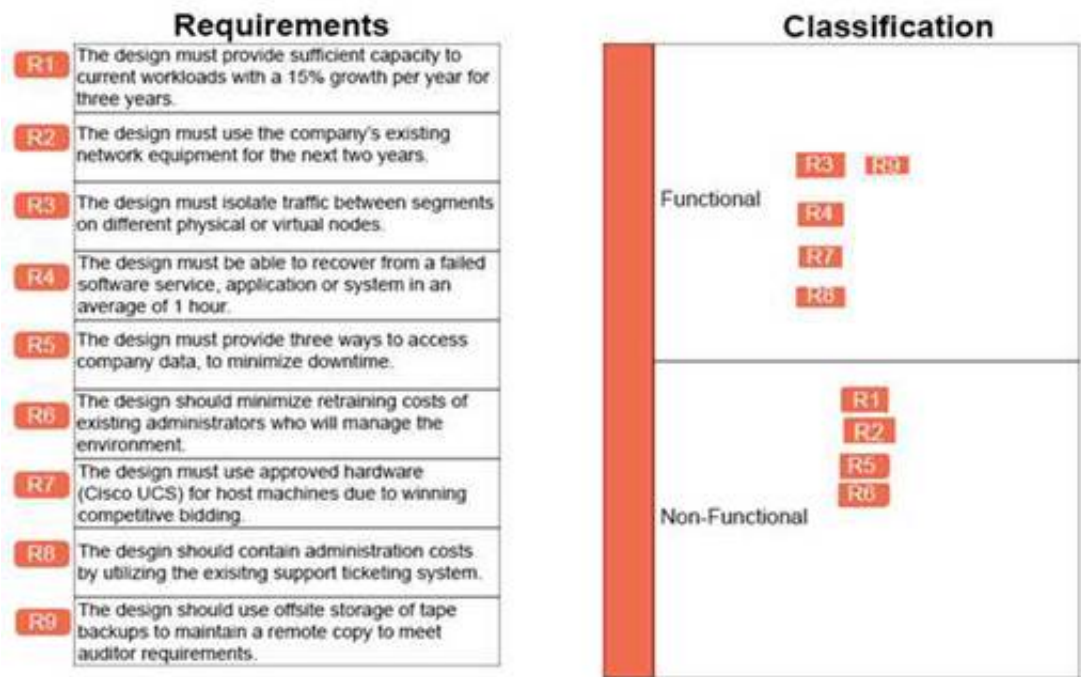
Match Requirements on the left by dragging the red buttons (R1-R9) over the text of the appropriate Classification.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 7

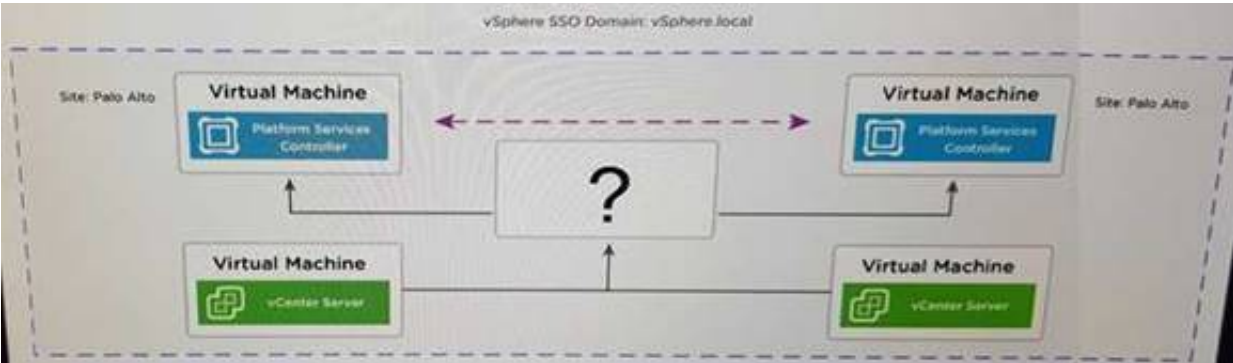
After the vSAN iSCSI Target service is enabled, which statement about iSCSI networks is true?

- 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 8

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 9

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

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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 10

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?

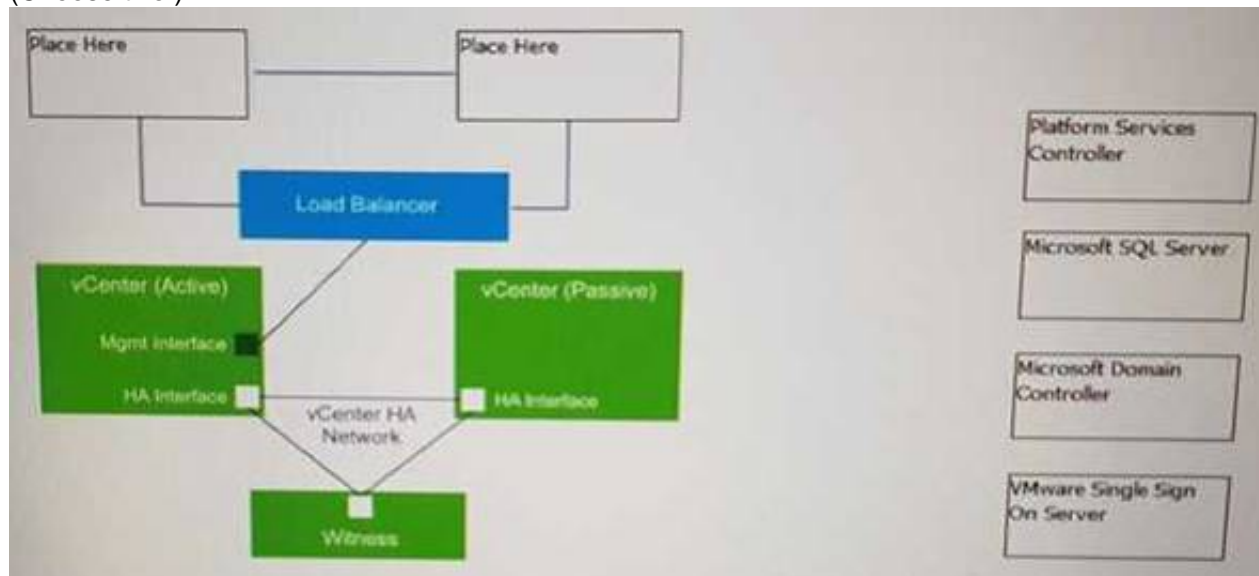
- A. vSphere replication
- B. vSphere Data Protection

- C. array-based replication
- D. vSphere Fault Tolerance

Answer: A

NEW QUESTION 10

In the vCenter HA configuration below, drag the two correct components to the blank boxes in this diagram. The same component may be used more twice (Choose two.)



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Platform services controller

NEW QUESTION 12

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

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

Answer: A

NEW QUESTION 16

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 18

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:

- recover from ESXi host hardware failures
 - zero downtime for a limited number of critical virtual machines (VMs)
 - migrate running VMs between ESXi hosts without interruption to the operating system
 - 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)

Answer: ACD

NEW QUESTION 20

An organization is trying to determine whether it should use the Windows version of the vCenterServer or use the vCenter Server Appliance (VCSA). The organization will be using an externalOracle database, and it will manage about 30 ESXi hosts and about 200 virtual machines on 1 vCenter Server, but it would also like to see another group's vCenter Server from the samevSphere client window. Which type of vCenter Server should it use, and why?

- A. The vCenter Server Appliance (VCSA) because it can be used with Oracle
- B. The VCSA because it can support 30 ESXi hosts
- C. The Windows version because it can support Oracle
- D. The Windows version because it can support Linked mode

Answer: A

NEW QUESTION 24

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 25

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.

Requirement

R1

The design requires a Internet connectoin between sites

R2

The design requires a Cloud-enabled Infrastructure

R3

The design must be vendor neutral

R4

The design requires specific vendors and products

R5

The design requires a change management system

R6

The design requires a scale-out-architecture

R7

The design requires specific CPU allocation settings

R8

The design must use vCenter Chargeback manager 2.5.1

Design Phase

Conceptual

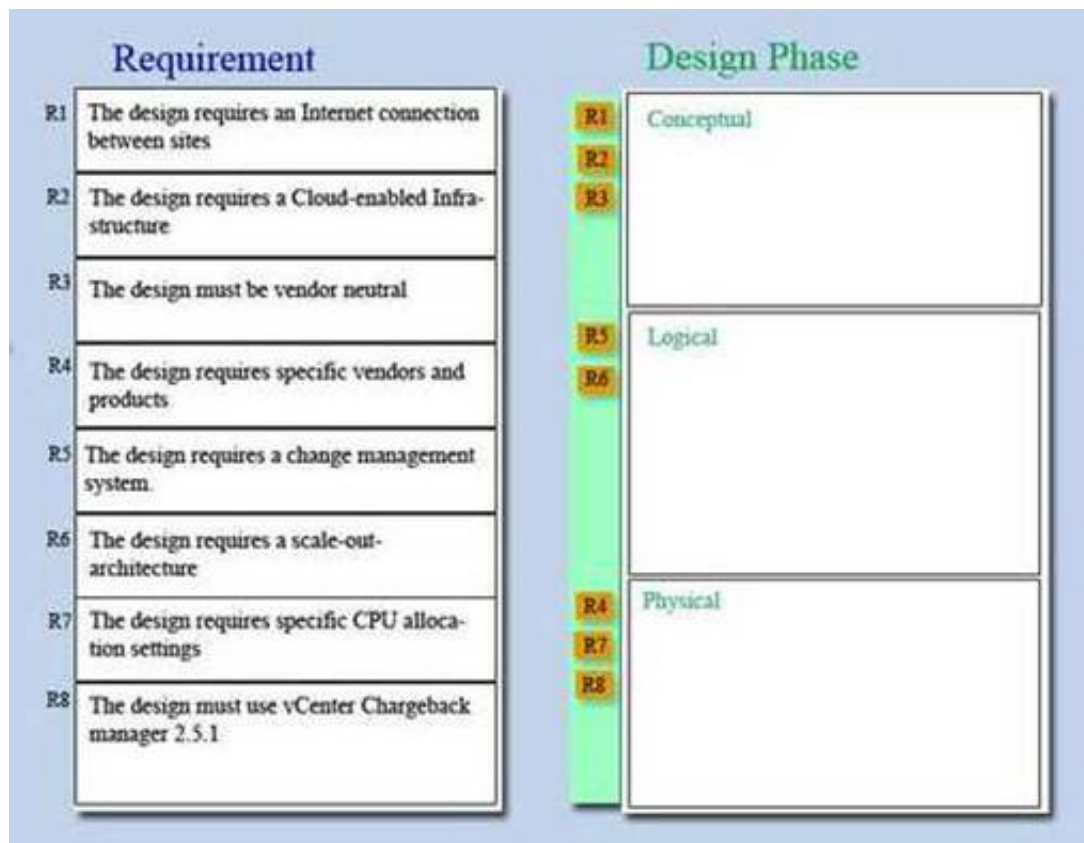
Logical

Physical

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 28

A company's CTO is very concerned about web server outages that are caused by server hardware failures. Which feature can protect the web server virtual machine from this kind of outage?

- A. vCenter High Availability
- B. Proactive High Availability
- C. High Availability Orchestrated Restart
- D. High Availability Admission Control

Answer: B

Explanation:

<http://www.vmwarearena.com/vsphere-6-5-high-availability-new-features-proactive-ha/vSphere> 6.5 High Availability (HA) now also detect the hardware conditions of the ESXi host and allow you to evacuate the Virtual machines before the hardware issues cause an outage to Virtual machines with the help of Proactive HA.

NEW QUESTION 29

A validation plan is used to do which of the following? (Select all that apply.)

- A. Verify the design
- B. Verify that the system is functional
- C. Verify that the system meets requirements
- D. Meet current best practices

Answer: ABC

NEW QUESTION 31

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 v4.1
- C. FCoE
- D. iSCSI

Answer: B

NEW QUESTION 32

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 37

Which of the following needs to be considered when determining the amount and size of the hosts 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 40

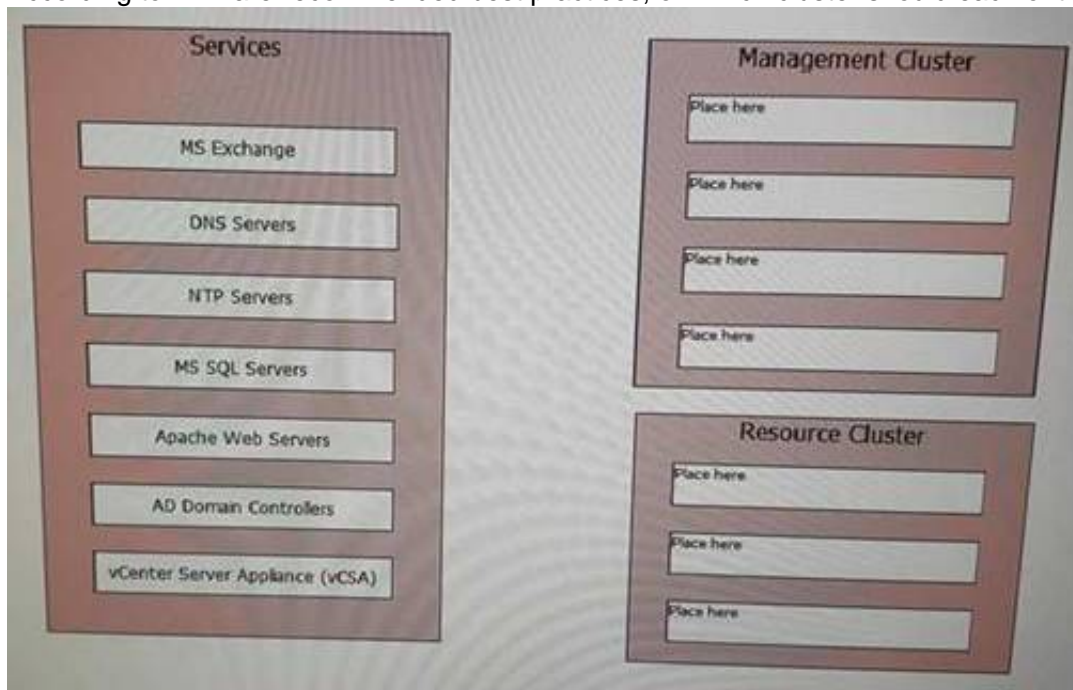
A customer is using a vSphere APIs for Storage Awareness (VASA) compatible storage array. The VASA provider is published as a virtual appliance. To ensure recoverability, where must the VASA provider and vCenter server virtual machines be stored?

- 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 43

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Management DNS Servers VCSA AD Domain NTP Servers Resource MS Exchange MS SQL Apache Web

NEW QUESTION 48

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 49

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

- two data centers for high availability
- synchronous replication to meet the zero minute RPO
- separating management workloads from application workloads
- dedicated 10Gb uplink for each low latency server
- single management point for the entire environment

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

- A. Configure 1 Port Group with a dedicated 10Gb Uplink for low latency servers.
- B. Deploy two clusters, one for management workloads and one for application workloads.
- C. Build 2 Port Groups, one for management serves and one for application servers.
- D. Install two vCenter Servers in Enhanced Link Mode.

Answer: AB

NEW QUESTION 50

You have been tasked with creating a vSphere 6.5 data center design for an organization. During the key stakeholder and SME interviews, a set of goals, requirements, assumptions and constraints were identified. Evaluate each of the requirements, assumptions, and constraints (RAC) and determine which design characteristics apply. Match each of the Requirements, Assumptions and Constraints by dragging the RAC buttons (R1-R5) over the text of the appropriate Design Characteristic. NOTE: RACs may fit one or more of the Design Characteristics.

RAC

R1

All hosts per location are configured uniformly and all differences or changes are tracked.

R2

The implementation should be easily repeatable.

R3

Deployment of system and services should be automated.

R4

The custom order processing system at the primary site must be kept running with no downtime.

R5

All production servers should be segregated.

Design Characteristic

Availability

Manageability

Performance

Recoverability

Security

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

RAC

R1

All hosts per location are configured uniformly and all differences or changes are tracked.

R2

The implementation should be easily repeatable.

R3

Deployment of system and services should be automated.

R4

The custom order processing system at the primary site must be kept running with no downtime.

R5

All production servers should be segregated.

Design Characteristic

Availability

R3R4

Manageability

R5

Performance

R4

Recoverability

R2

Security

R1

NEW QUESTION 53

A solutions architect has made the following design decisions:

- Leverage existing hardware that is certified on earlier versions of vSphere but is NOT on HCL for ESXi 6.5.
- Upgrade vCenter Server to version 6.5.
- Configure separate clusters based on ESXi versions 5.5, 6.0, and 6.5 for newly purchased, certified hardware.
- The underlying CPU family is compatible.
- 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 6.5.
B. VMs created in vSphere 6.5 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.

Answer: C

NEW QUESTION 54

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 58

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