Vendor:VMware

Exam Code:3V0-624

Exam Name:VMware Certified Advanced Professional
6.5 – Data Center Virtualization Design Exam

Version: Demo

QUESTION 1

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/vsphe re-6-5/index.jsp?topic=%2Fcom.vmware.vapi.progguide.doc%2FGUID-0B234875-EEEB-4982-9FC1-4DE6B071BDC9.h tmlGreat link provided by Megalodon.

QUESTION 2

You have been tasked with creating a vSphere 6.5 center design for an organization. The organization is currently evaluating vSphere network technologies that can be utilized with their existing infrastructure.

Evaluate each statement provided through requirements gathering and determine the network technologies that can be used to meet that requirement. The technology(s) chosen should be limited to what is needed to meet, but not exceed,

the given requirement.

Match Statements on the left by dragging the red buttons (S1-S6) over the text of the appropriate Solution.

NOTE: Statements can match more than one Solution or none at all.

Select and Place:

Statement	Solution
S1 The design should be able to support six ESXi hosts, four portgroups, vMotion, and iSCSI.	vSphere Standard Switch
S2 We plan to add ten additional VLANs to our physical network to allow communication to our remote office over a site-to-site VPN.	vSphere Distributed Switch
S3 We plan to utilize Link Aggregation in the future, and integrate traffic monitoring into our existing NetFlow configuration.	VMware NSX
S4 We would like to load balance our VM traffic, and we want to segment traffic with separate gateways for hosted customers.	PVLANs
S5 We want to determine if our infrastructure can support virtual machine migration over long distance.	Multiple TCP/IP Stacks
S6 We would like to gain greater control over our individual traffic types, and are thinking of additing Network I/O Control to the design.	

Correct Answer:

Statement		Solution	
The design should be able to support six ESXi hosts, four portgroups, vMotion, and iSCSI.		vSphere Standard Switch	S5
We plan to add ten additional VLANs to our physical network to allow communication to our remote office over a site-to-site VPN.		vSphere Distributed Switch	S1 S3
We plan to utilize Link Aggregation in the future, and integrate traffic monitoring into our existing NetFlow configuration.		VMware NSX	S2
We would like to load balance our VM traffic, and we want to segment traffic with separate gateways for hosted customers.		PVLANs	S4
We want to determine if our infrastructure can support virtual machine migration over long distance.		Multiple TCP/IP Stacks	S6
We would like to gain greater control over our individual traffic types, and are thinking of additing Network I/O Control to the design.			

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 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 5

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.

Select and Place:

	Design Option	Characterstic
01	Fewer large servers, fully populated with compute resources	Availability
02	Many servers with partially populated compute resources	Manageability
03	A fully-redundant physical switching topology	Performance
04	An off-site, cloud-based backup solution	Recoverability
05	An on-site, encrypted backup solution	Security

Correct Answer:

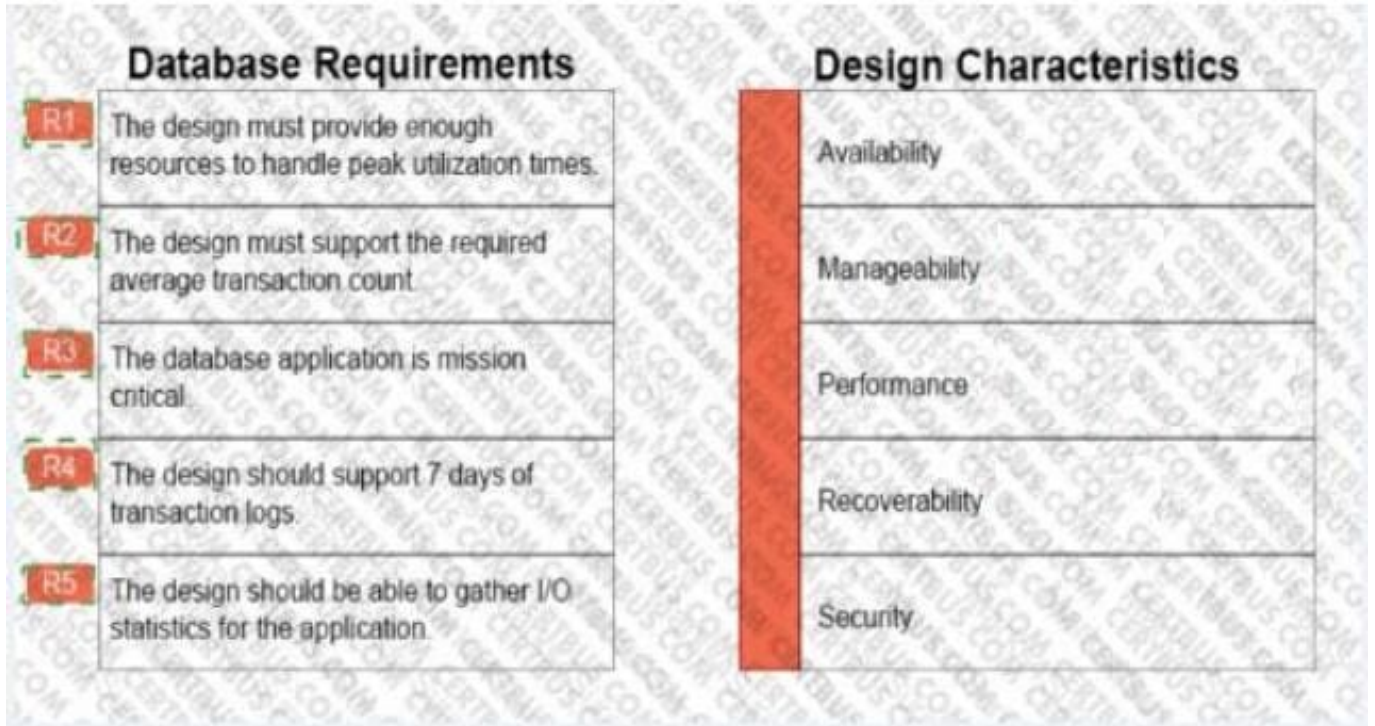|	Design Option		Characterstic			
01	Fewer large servers, fully populated with compute resources	Availability	02	03		
02	Many servers with partially populated compute resources	Manageability	01			
03	A fully-redundant physical switching topology	Performance	05			
04	An off-site, cloud-based backup solution	Recoverability	01	03		
05	An on-site, encrypted backup solution	Security	04			

QUESTION 6

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

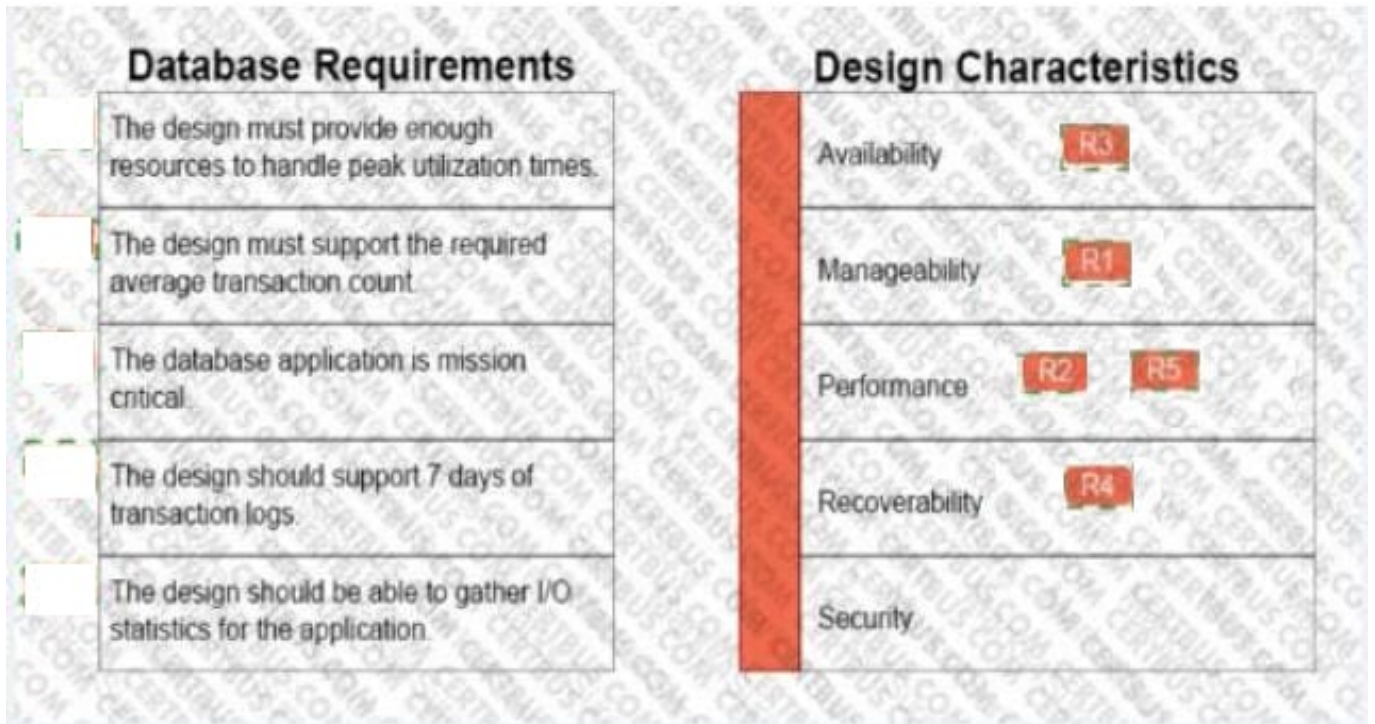requirements map to the design characteristic(s).

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.

Select and Place:

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

Correct Answer:

Database Requirements

	The design must provide enough resources to handle peak utilization times.
	The design must support the required average transaction count.
	The database application is mission critical.
	The design should support 7 days of transaction logs.
	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		

QUESTION 7

A customer warns 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

Correct Answer: BDE

https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/solutions/vmware-oracle-databases-on-vmware-best-practices-guide.pdf

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QUESTION 8

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, the university is using blade servers backed by a Fibre Channel array for its business critical applications

2.

 It has two iSCSI arrays (one for the development environment and other for the no-critical production environment)

3.

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

4.

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

From the list below, which three are constraints? (Choose three.)

A. 99.9% uptime is required for the environment

B. The Network Operation Center uses SolarWinds for all monitoring and alerting

C. Blade servers must be used to consolidate space

D. Provide capacity to support 20% Year-over-Year growth for the next 3 years

E. There area current contracts in place with Dell to provide all server hardware

Correct Answer: BCE

QUESTION 9

A company has one data center site running 50 hosts and 400 virtual machines and requires a vSphere 6.5 design.

1.

 The CIO wants to add a secondary site for Disaster Recovery (DR) with A hours RPO.

2.

 The application developer is concerned about anticipated growth as several new projects begin.

3.

 The CISO is worried about data leaks and theft.

4.

 The CTO would like to buy new servers with better specifications and higher consolidation ratio.

Determine the critical requirements for each of the key stakeholders. Some requirements might have more than one stakeholder.

Select and Place:

Business Requierement	Client CIO
Performance	Place here.
Cost	Place here.
Business Continuity	Place here.
Disaster Recovery	**Client CTO**
Data Integrity	Place here.
	Place here.
	Client Developer
	Place here.

Correct Answer:

Business Requierement	Client CIO
Performance	Disaster Recovery
Cost	Business Continuity
Business Continuity	Data Integrity
Disaster Recovery	**Client CTO**
Data Integrity	Cost
	Performance

Client Developer

Performance

QUESTION 10

A system architect is building a design that includes three vCenter Server Appliances with 20 to 25 ESXi hosts each. The reliability of the environment is the top business priority because the company runs several applications that must be highly available.

Which VMware solution provides the ability to centrally detect issues in the environment and resolve them?

A. Set up a log collection and analysis engine such as VMware Log Insight and point all components of the vSphere environment to this engine.

B. Enable the deactivated VMware Log Browser Service to capture and search logs in the vSphere Web Client.

C. Use the new vSphere HTML5 client that provides multiple ways to detect and isolate issues in the environment.

D. Use the vCenter Server Support Assistant as an easy way to create log bundles, then transfer them to VMware support for analysis and resolution.

Correct Answer: A

QUESTION 11

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

Correct Answer: B

"Proactive HA integrates with select hardware partners to detect degraded components and evacuate VMs from affected vSphere hosts before an incident causes a service interruption" https://docs.vmware.com/en/VMware-vSphere/6.7/com.vmware.vsphere.avail.doc/GUID-3E3B18CC-8574-46FA-9170-CF549B8E55B8.html https://www.altaro.com/vmware/vsphere-6-5-proactive-ha-works/

QUESTION 12

A company has requested assistance with a new cross-site failover design between two sites which will support business-critical applications.

1.

 Latency between the sites is less than 5ms roundtrip.

2.

 Downtime for the applications could result in millions of dollars in lost revenue.

The company requires:

1.

 Application restart in the event of a total site failure

2.

 Allow for planned migration during maintenance

3.

 Applications must be kept online even when migrated due to planned site maintenance

Which two options would meet the company\\'s requirements? (Choose two.)

A. vSphere Replication with Site Recovery Manager

B. VMware vSphere Metro Storage Cluster

C. VMware vSAN cluster with FT enabled for application VMs

D. Synchronous Replication

Correct Answer: AD