

## Exam Questions 3v0-624

VMware Certified Advanced Professional 6.5 - Data Center Virtualization Design Exam

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**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**

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.

Design Option		Characteristic	
O1	Fewer large servers, fully populated with compute resources		Availability
O2	Many servers with partially populated compute resources		Manageability
O3	A fully-redundant physical switching topology		Performance
O4	An off-site, cloud-based backup solution		Recoverability
O5	An on-site, encrypted backup solution		Security

- A. Mastered
- B. Not Mastered

**Answer: A**

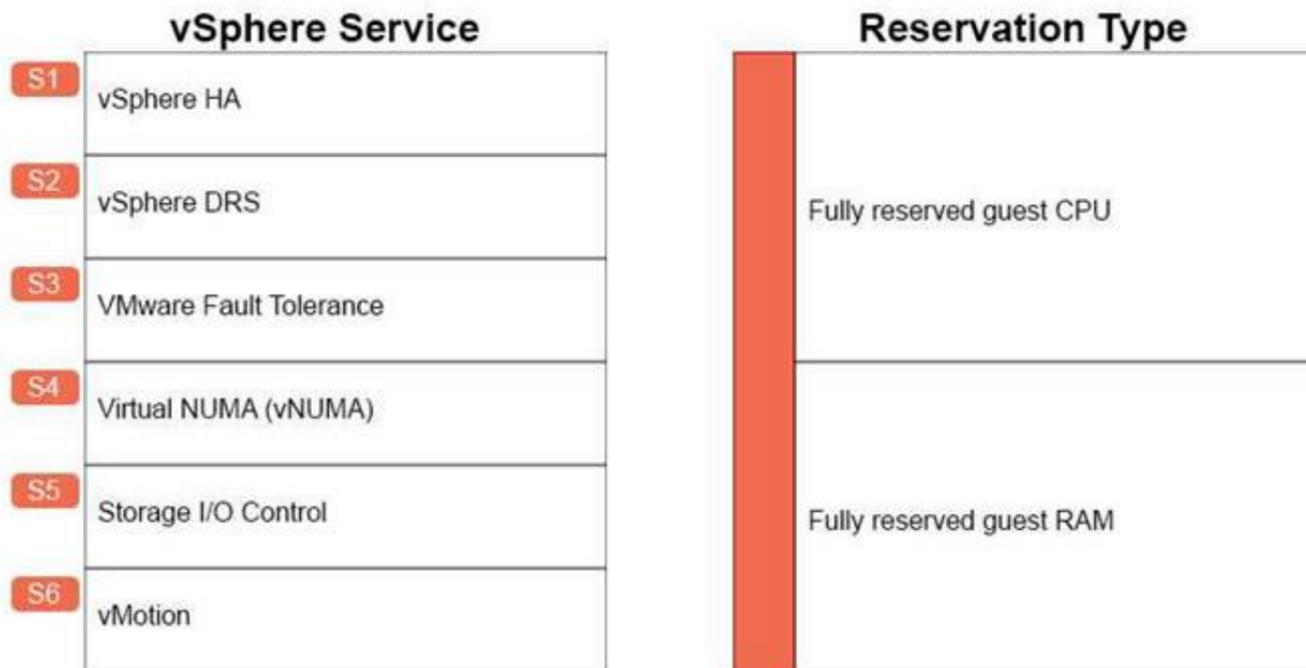
**Explanation:**

Design Option		Characteristic	
O1	Fewer large servers, fully populated with compute resources		Availability
O2	Many servers with partially populated compute resources	O2	Availability
O3	A fully-redundant physical switching topology	O3	Availability
O4	An off-site, cloud-based backup solution		Manageability
O5	An on-site, encrypted backup solution	O5	Performance
		O1	Recoverability
		O3	Recoverability
		O4	Security

**NEW QUESTION 3**

You have been tasked with creating a vSphere 6.5 design for an organization. The organization has a mission critical application that must be able to obtain its required CPU and memory resources even if contention occurs. You must determine which vSphere service(s) will allow for resources to be reserved. Associate the vSphere Service on the left with the corresponding Reservation Type on the right by dragging the red button (S1-S6) over the text of the Reservation Type.

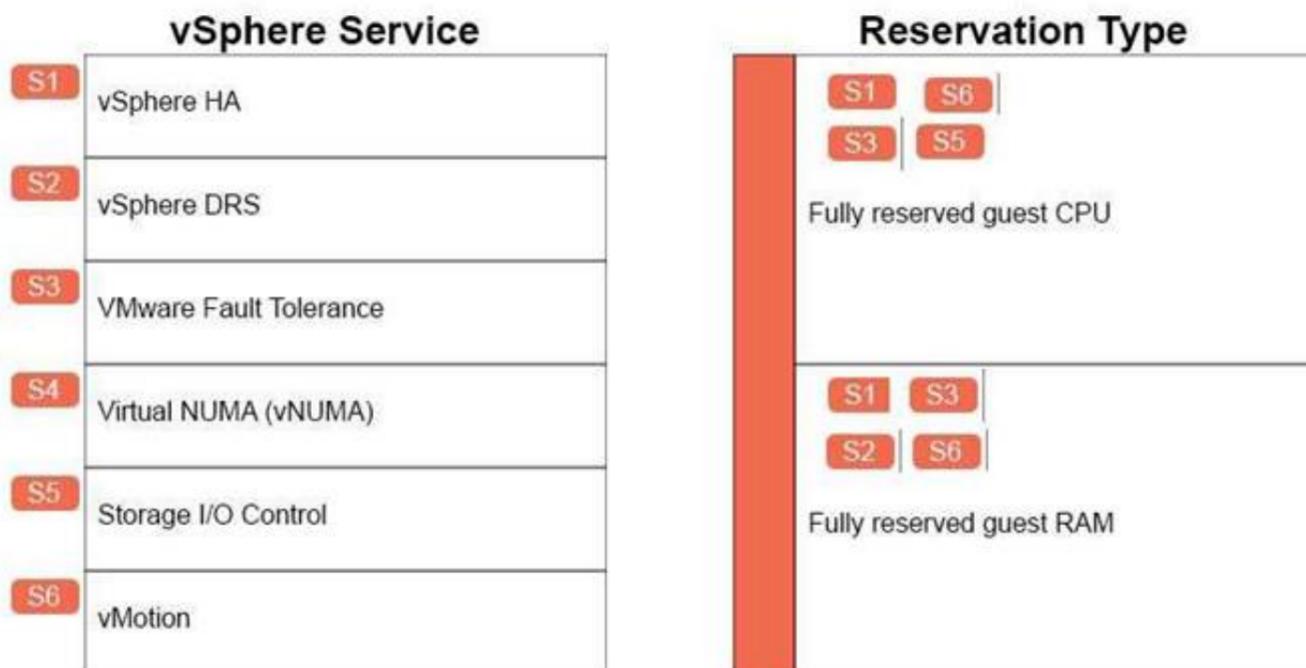
NOTE: A vSphere Service may allow for more than one Reservation Type or none at all.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



**NEW QUESTION 4**

A company is conducting a technology refresh and has requested assistance with a vSphere 6.5 design.

- The company has a corporate headquarters and two data centers strategically placed around the country, which provide the bulk of the computer power and storage for their customer-facing stores.
- The company requires each of its stores to be able to operate independently if connectivity is ever lost.
- Presently, all stores are configured differently and must be standardized as part of the technology refresh
- To support store operations, only a dozen applications are required.
- Any downtime during store hours could result in significant losses.
- Any proposed design must minimize cost.

What is a VMware-recommended option for this scenario?

- A. VMware vSAN cluster with a minimum of three hosts
- B. VMware vSphere cluster with low-cost iSCSI shared storage
- C. VMware vSAN Stretched Cluster with nearest regional data center
- D. VMware vSAN Remote Office Branch Office (ROBO) with two hosts

Answer: D

**NEW QUESTION 5**

A company provides critical financial and statistical data for several major banks.

- The company ensures that the bank's customer data is secure and that analytics data is available when needed.
- Customers rely on this data before making crucial business and financial decisions.
- Just a few minutes of downtime can result in loss of revenue and trust.
- To meet high-availability requirements, the company's IT infrastructure components must be redundant.
- The company established three data centers across the globe and interconnected them with high-speed WAN links.
- Due to the rapid growth of its customers and their increasing demands, the compute, network, and storage

were procured and managed by the company's enterprise system administrators group. What are its two key challenges? (Choose two)

- A. Data centers across the globe possess manageability problems.
- B. Availability of business applications must be ensured.
- C. Regulatory requirements must be met.
- D. Hardware-defined data centers have limitations.

Answer: AD

**NEW QUESTION 6**

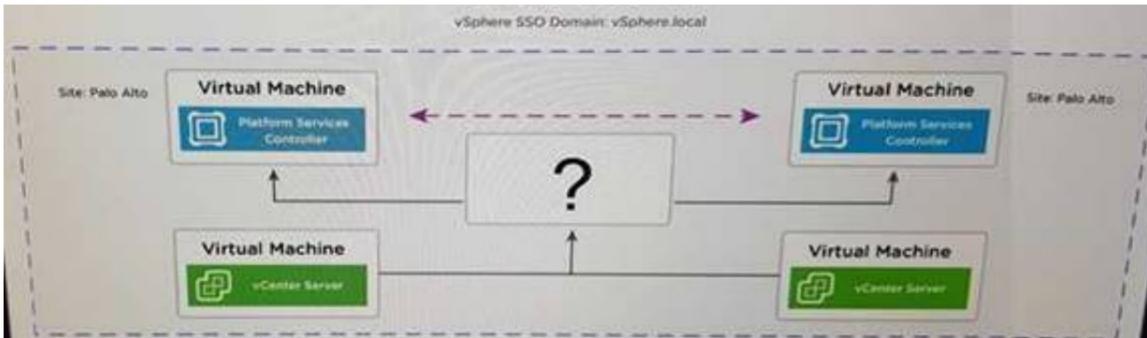
After the vSAN iSCSI Target service is enabled, which statement about iSCSI networks is true?

- 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 7**

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 8**

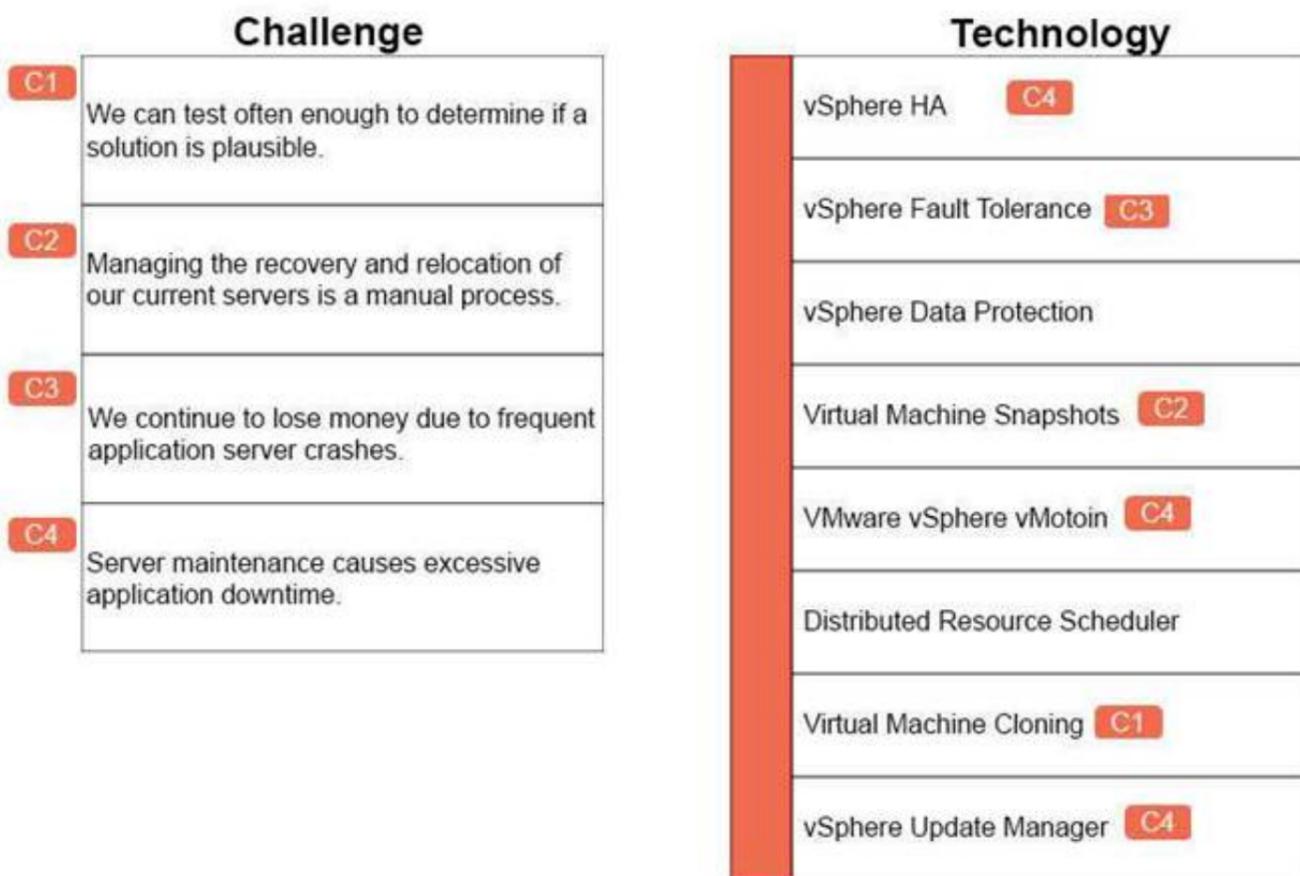
You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has identified a number of challenges that occur within their current infrastructure that they would like addressed in the design. For each challenge, determine the vSphere technologies that could be used in the design. Match each Challenge on the left by dragging the red Challenge buttons (C1-C4) over the appropriate Technology.

Challenge	Technology
<b>C1</b> We can test often enough to determine if a solution is plausible.	vSphere HA
<b>C2</b> Managing the recovery and relocation of our current servers is a manual process.	vSphere Fault Tolerance
<b>C3</b> We continue to lose money due to frequent application server crashes.	vSphere Data Protection
<b>C4</b> Server maintenance causes excessive application downtime.	Virtual Machine Snapshots
	VMware vSphere vMotion
	Distributed Resource Scheduler
	Virtual Machine Cloning
	vSphere Update Manager

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**



**NEW QUESTION 9**

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 external Oracle 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 same vSphere 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 10**

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 10**

A customer wants to make its data available with a RPO of 10 minutes. Replication to the second data center will be done using the network. Which type of storage configuration should be used?

- A. NFS datastore on ESXi 6.0 with vSphere replication appliance 6.0
- B. VMFS datastore on ESXi 6.0 with vSphere replication appliance 6.5
- C. vSAN datastore on ESXi 6.0 with vSphere replication appliance 6.5
- D. VMFS datastore on ESXi 6.0 with vSphere replication appliance 6.0

**Answer: B**

**NEW QUESTION 15**

You have been tasked with creating a vSphere 6.5 design for an organization. The organization is looking to implement a Virtual SAN into their environment. You have been tasked with determining whether a given Virtual SAN logical design decision meets the technical requirements of their infrastructure.

For each Design Decision on the left drag the red Decision buttons (D1-D8) on the right and place it on the proper Technical Requirement.

NOTE: Not all Design Decisions will be used.

Design Decision		Technical Requirement	
D1	2 each 1 Gbps NICs		Data Availability
D2	2 each 10Gbps NICs		
D3	FTT = 2		Throughput
D4	4 hosts 2U each + 1 Blade server		
D5	4 hosts 4U each		Write Performance
D6	4 hosts 2U each + 2 Blade servers		
D7	Stripe Width = 1		Cluster Size
D8	Stripe Width = 3		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

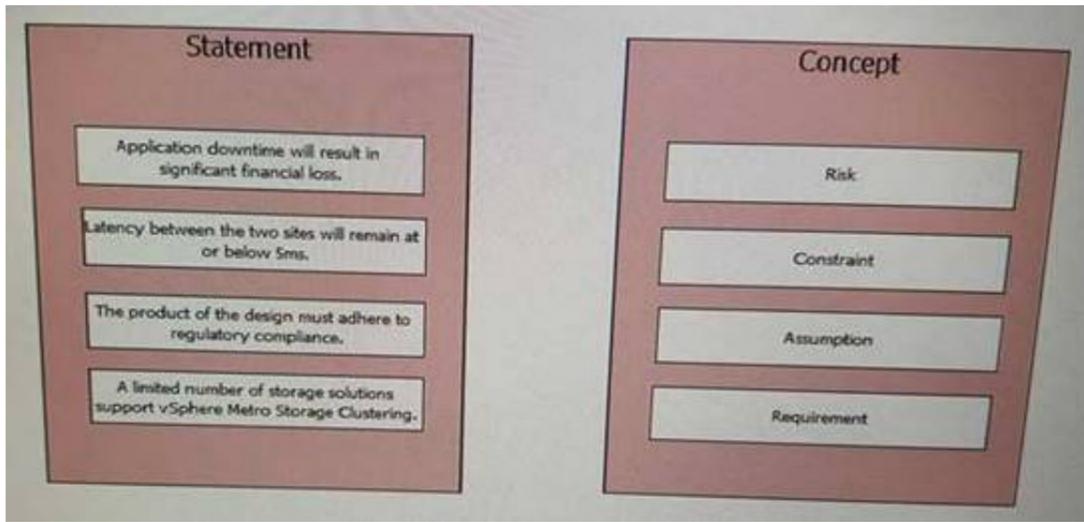
Design Decision		Technical Requirement	
D1	2 each 1 Gbps NICs		Data Availability D2 D5 D8
D2	2 each 10Gbps NICs		
D3	FTT = 2		Throughput D2 D6 D7
D4	4 hosts 2U each + 1 Blade server		
D5	4 hosts 4U each		Write Performance D1 D3 D5
D6	4 hosts 2U each + 2 Blade servers		
D7	Stripe Width = 1		Cluster Size D4
D8	Stripe Width = 3		

**NEW QUESTION 19**

A global financial 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

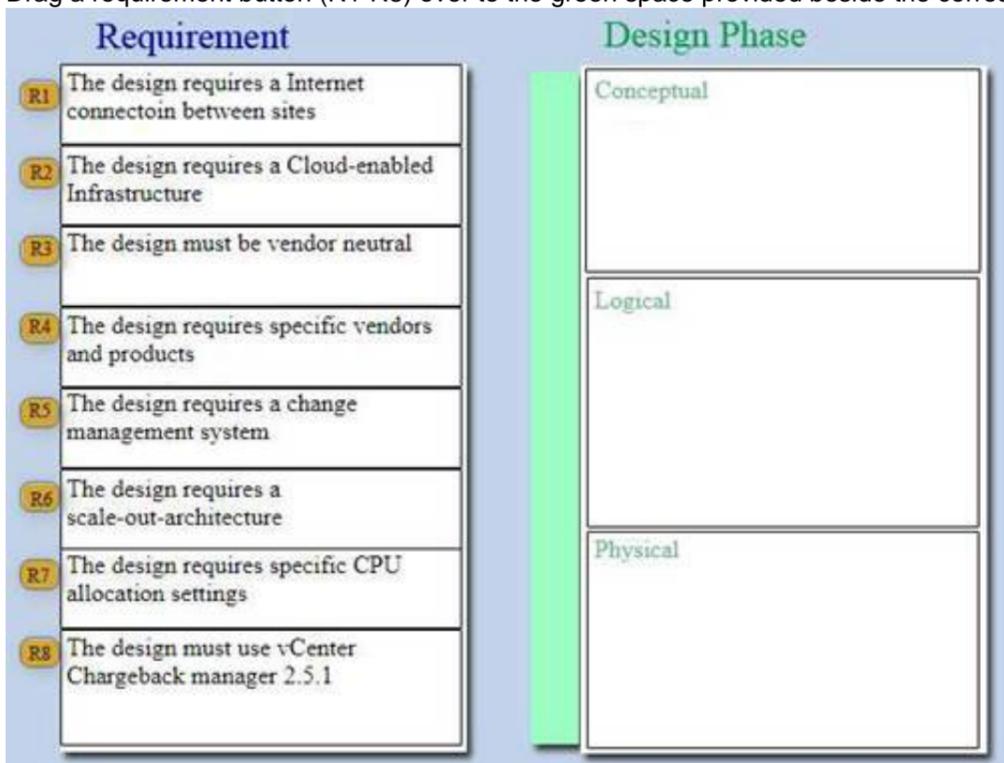
Answer: A

**Explanation:**

Risk--> App downtime..  
 Constraint --> The product of the desing must..  
 Assumption --> A limited number of storage..  
 Requirement --> Latency between the two sites...

**NEW QUESTION 24**

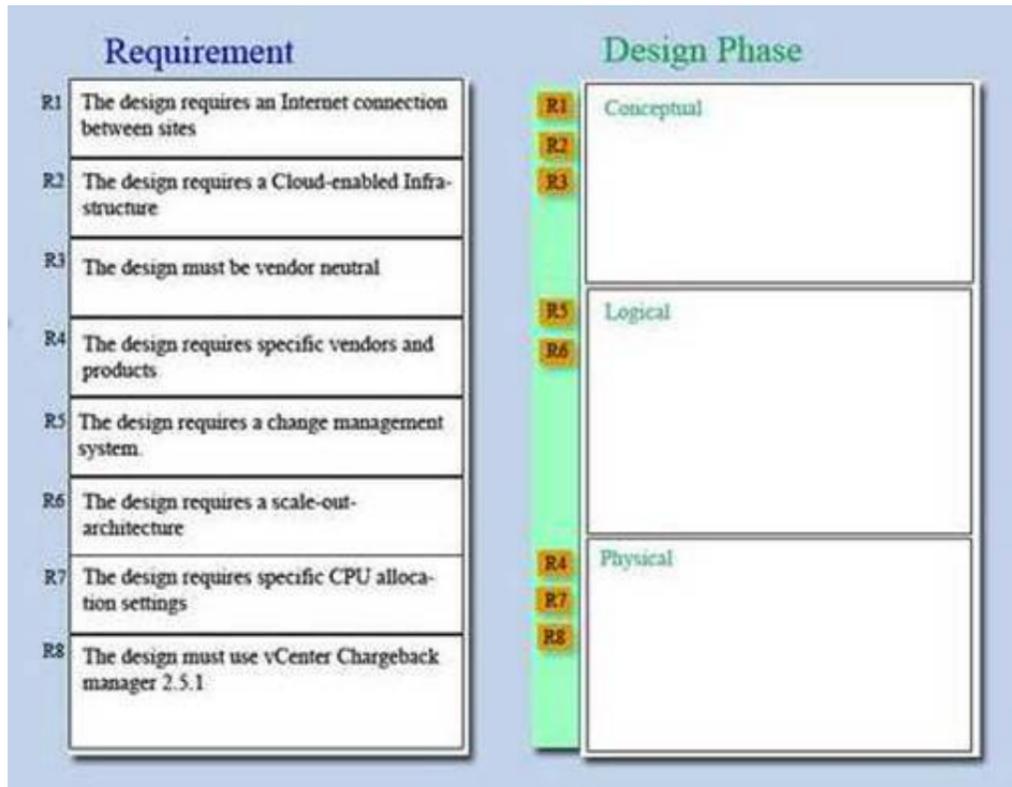
You have been provided with a list of requirements for a vSphere Design. For each requirement, categorize the requirement as a component of the conceptual, logical, or physical design.  
 Drag a requirement button (R1-R8) over to the green space provided beside the corresponding Design Phase.



- A. Mastered
- B. Not Mastered

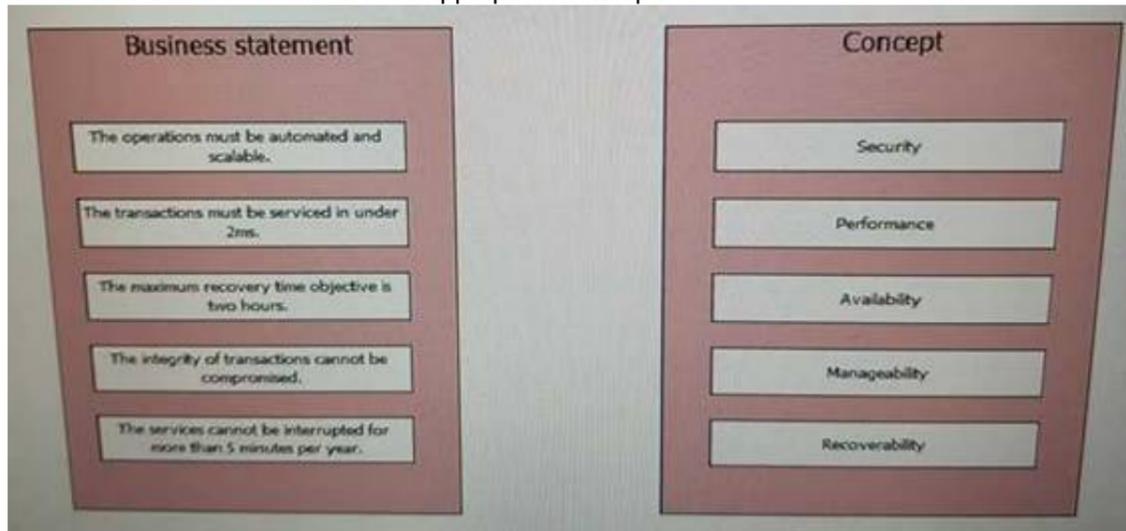
Answer: A

**Explanation:**



**NEW QUESTION 25**

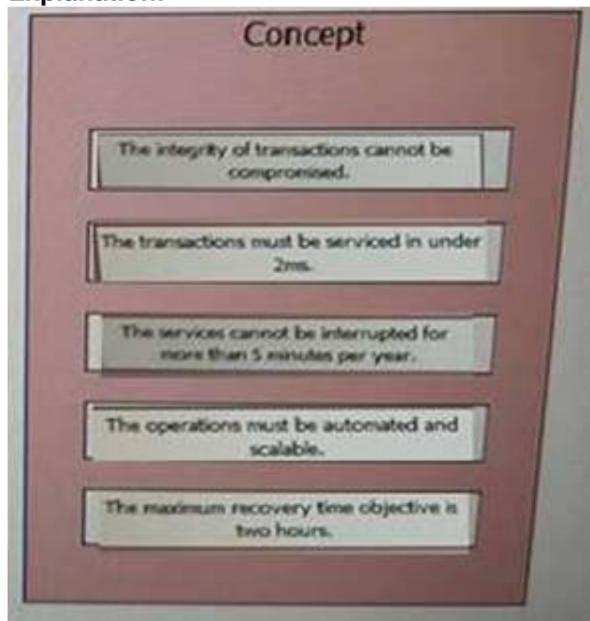
Match the business statement to its appropriate concept.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



**NEW QUESTION 30**

An architect is designing a vSphere 6.5 implementation.

- The customer requires Cross vCenter vMotion for the newly-created data centers in New York and Houston.
- Each data center will use different IP networks for management and vMotion.

When creating a vMotion network, which two statements are required in order to use Cross vCenter Server vMotion? (Choose two.)

- A. vMotion Networks in both data centers must be in the same L2 stretched VLAN.
- B. The virtual machine port groups must use the same name.

- C. VMkernel port for vMotion must be configured with vMotion TCP/IP Stack with the correct gateway.
- D. vMotion networks in both data centers must be routable over L3 network.

Answer: CD

**NEW QUESTION 31**

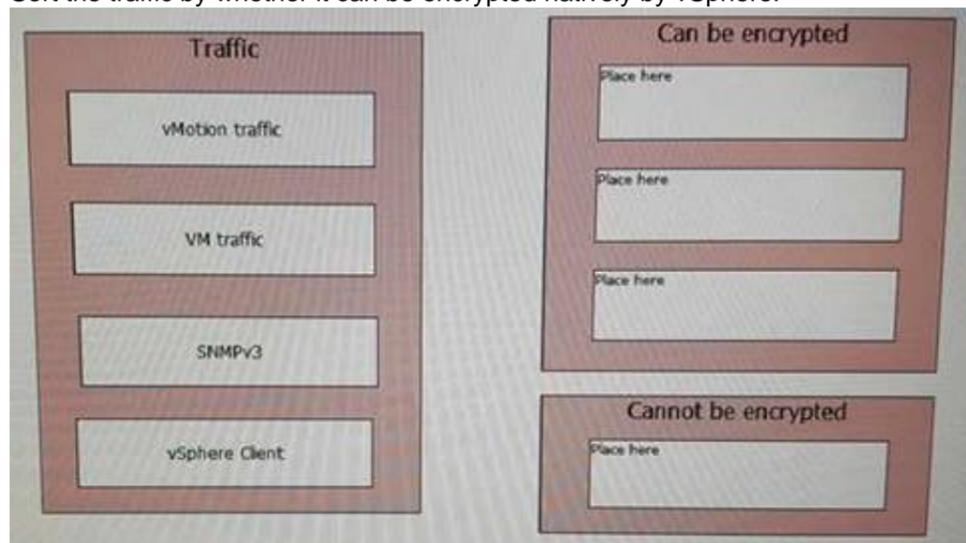
The ability to live-migrate all virtual machines between two clusters is a requirement in the customer's design. Which two clusters and EVC configurations will accomplish this? (Choose two)

- A. Cluster 1• ESXi 6.0• Intel Skylake CPUs• EVC Enabled: AMD Opteron™ "Steamroller" Generation Cluster 2• ESXi 6.5• AMD Steamroller CPUs• EVC Enabled: AMD Opteron™ "Steamroller" Generation
- B. Cluster 1• ESXi 5.6• Intel® Broadwell CPUs• EVC Disabled Cluster 2• ESXi 6.5• Intel® Broadwell CPUs• EVC Disabled
- C. Cluster 1• ESXi 5.5• AMD Piledriver CPUs• EVC Enabled: AMD Opteron™ "Piledriver" Generation Cluster 2• ESXi 6.5• AMD Steamroller CPUs• EVC Enabled: AMD Opteron™ "Piledriver" Generation
- D. Cluster 1• ESXi 6.5• Intel Broadwell CPUs• EVC Enabled: Intel® "Broadwell" Generation Cluster 2• ESXi 6.5• Intel Sandy Bridge CPUs• EVC Enabled: Intel® "Sandy Bridge" Generation

Answer: BC

**NEW QUESTION 33**

Sort the traffic by whether it can be encrypted natively by vSphere.



- A. Mastered
- B. Not Mastered

Answer: A

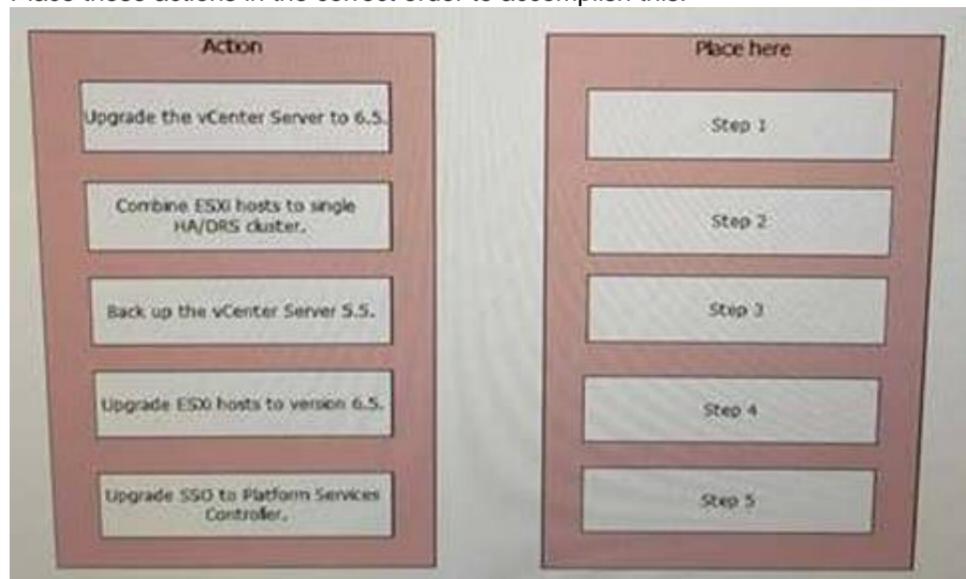
**Explanation:**

vMotion--> it is supported snmpv3 --> Natively supports message integrity, auth and encryption vSphere client --> Using IPSec for IPv6

**NEW QUESTION 38**

A customer is currently running a vCenter Server 5.5 environment with 48 identically-configured ESXi hosts.

- These ESXi hosts are divided into six 8-host HA/DRS clusters.
  - The customer wants to upgrade to vSphere 6.5 and combine all of its ESXi hosts into a single 48-host HA/DRS cluster.
- Place these actions in the correct order to accomplish this.



- A. Mastered
- B. Not Mastered

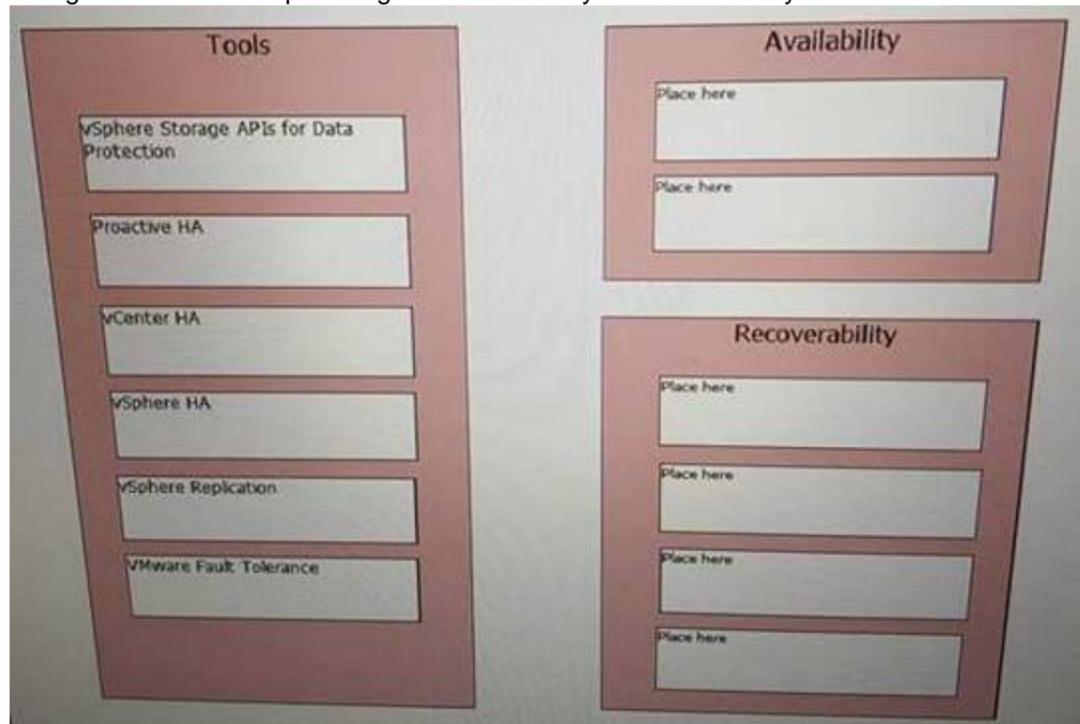
Answer: A

**Explanation:**

1 - Backup vCenter 5.5- Upgrade the SSO to PSC3-Upgrade vCenter to 6.5- Upgrade ESXi hosts to version 6.5- Combine ESXi hosts to single...

**NEW QUESTION 43**

Categorize the tools as providing either Availability or Recoverability.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Availability FTHAR Recoverability Proactive HA vCenter HA vSphere Replication VADP

**NEW QUESTION 46**

A customer is virtualizing a mission-critical Microsoft SQL database and needs a configuration that provides optimal NUMA performance.

- There are two possible clusters that the database virtual machine could reside in: Cluster A is vSphere 6.0 and Cluster B is vSphere 6.5.
  - All ESXi hosts contain dual Intel Xeon E5-2650 v3 processors (ie: 2 socket, 10 cores per socket) and 256Gb RAM with vNUMA in its default configuration.
- Given this scenario, which three statements are true? (Choose three.)

- A. Enabling CPU Hot Add on a virtual machine will disable vNUMA.
- B. Placing a 10 vCPU VM in Cluster A and configuring it with 2 Sockets and 5 Cores Per Socket will result in 2 vNUMA nodes.
- C. Placing a 10 vCPU VM in Cluster B and configuring it with 2 Sockets and 5 Cores Per Socket will result in 2 vNUMA nodes.
- D. Enabling Memory Hot Add on a virtual machine will disable vNUMA.
- E. Placing the VM in Cluster B and configuring it with 5 Sockets and 2 Cores Per Socket will result in 1 vNUMA node.

**Answer:** ABC

**NEW QUESTION 49**

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 VMkernel port.
- B. Configure VLANs to create separate networks.
- C. Purchase hardware that supports a greater number of network ports.
- D. Utilize Private VLANs.

**Answer:** BCD

**NEW QUESTION 53**

A customer has requested a vSphere 6.5 deployment design that utilizes vCenter Server and the use of VMware-recommended best practices for securing vCenter Server.

Which three actions would satisfy these requirements? (Choose three.)

- A. Utilizing vSphere CLI and vSphere SDK for Perl scripts.
- B. Restricting vCenter Server access to only the management network
- C. Assigning the default Administrator role to all administrator users.
- D. Synchronizing time in vCenter Server with a NTP source.
- E. Removing expired and revoked certificates from vCenter Server system.

**Answer:** BDE

**NEW QUESTION 56**

You have been tasked with creating a vSphere 6.5 data center design for an organization. After interviewing key stakeholders and subject matter experts for a new implementation, it was determined that:

1. Existing network infrastructure should be sufficient.

2. HIPPA compliance must be maintained.  
 3. Mission critical applications must be recoverable.  
 4. Provide training to staff to ensure they can support the implementation.  
 5. IT department capital investment has been agreed upon and approval is nearly complete.  
 For each statement, you must determine if the statement should be categorized as an assumption, constraint, requirement or risk.  
 Match each Business Statement by dragging the red Statement buttons (S1-S5) over the text of the appropriate Categorization.  
 NOTE: Statements can have more than one Categorization.

Business Statement		Categorization	
S1	Approved capital investment		Assumption
S2	Recovery of mission critical applications		Constraint
S3	Sufficient network infrastructure		Requirement
S4	HIPPA Compliance		Risk
S5	Educating current staff		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Business Statement		Categorization	
S1	Approved capital investment		Assumption S2 S3
S2	Recovery of mission critical applications		Constraint S4
S3	Sufficient network infrastructure		Requirement S1 S5
S4	HIPPA Compliance		Risk
S5	Educating current staff		

**NEW QUESTION 59**

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.

Answer: CD

**NEW QUESTION 61**

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