



## **VMware**

### **Exam Questions 3v0-624**

VMware Certified Advanced Professional 6.5 - Data Center Virtualization Design Exam

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**NEW QUESTION 1**

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	O1	Manageability
O5	An on-site, encrypted backup solution	O5	Performance
		O1	Recoverability
		O3	Recoverability
		O4	Security

**NEW QUESTION 2**

A company is consolidating its IT operations efforts by moving the Finance, IT, and QA departments towards a self-service environment, following SDDC best practices.

- All departments have different priorities and expectations for uptime of the required infrastructure and applications.
- Project stakeholders are still discussing final approvals for the budget with the CFO.
- To drive down the operating cost of the environment, only blade servers will implement this project.
- To ensure business continuity, a colocation provider was chosen to fail over virtual machines.
- The implementation of the project will follow a public reference architecture provided by VMware. What is the assumption in this scenario?

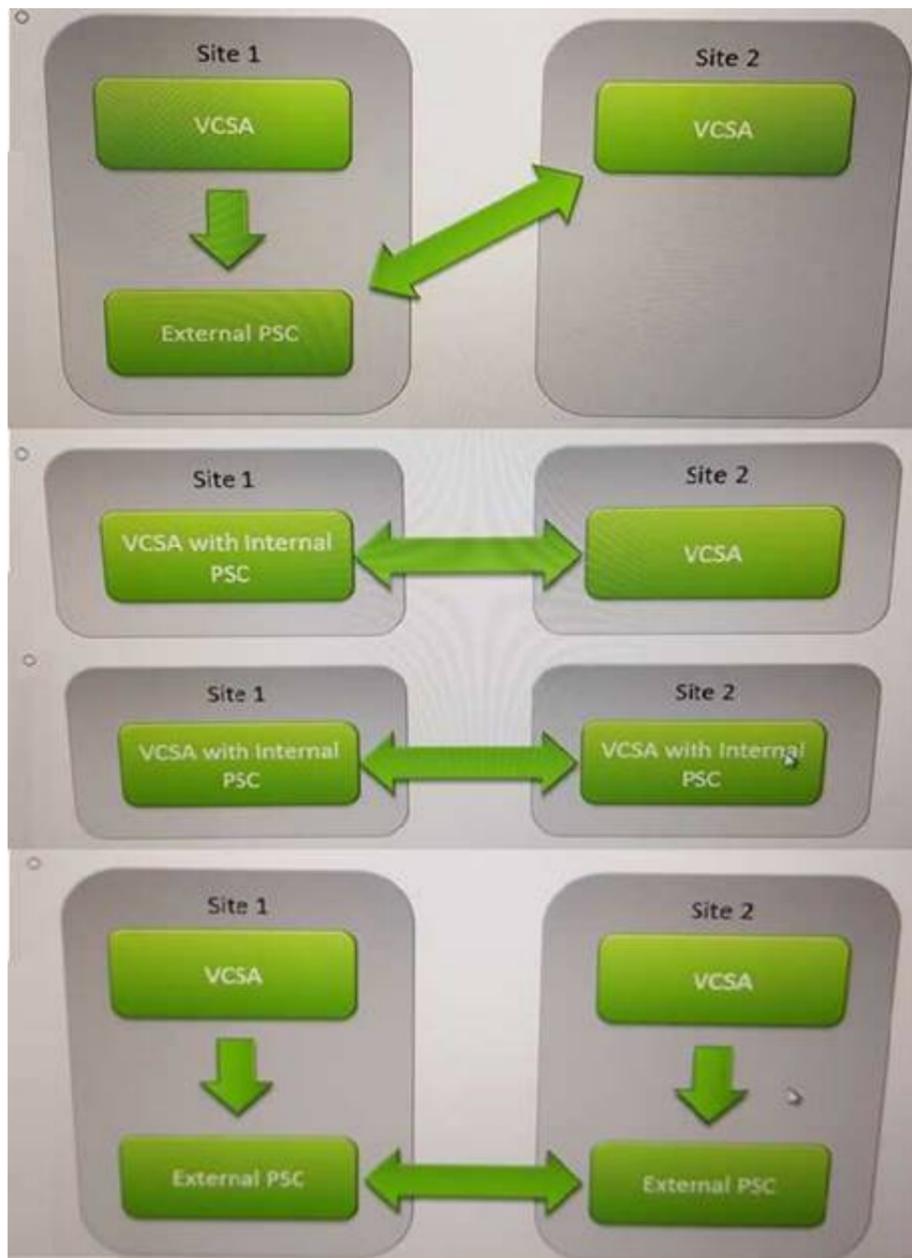
- A. The chosen architecture is sufficient.
- B. All departments demand different SLAs.
- C. Final budget approvals are being discussed.
- D. The environment will be shared by several departments.

Answer: A

**NEW QUESTION 3**

The customer has two sites that must operate independently of each other in the event of a WAN failure. During normal operations, administrators from each site must be able to manage the other site through the vSphere Web Client.

Which vCenter Server Appliance (VCSA) and Platform Services Controller (PSC) diagram shows the VMware-recommended design that satisfies these requirements?



- A. Exhibit A
- B. Exhibit B
- C. Exhibit C
- D. Exhibit D

**Answer:** D

**Explanation:**

<https://www.opvizor.com/understanding-the-impacts-of-mixed-version-vmware-server-deployments/>

**NEW QUESTION 4**

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 5**

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

**Answer:** A

**NEW QUESTION 6**

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 7**

A company has requested that a new vSphere 6.5 design be created.

- The existing environment consists of 32 vSphere 6.0 hosts attached to an iSCSI storage array.
- The storage arrays contain external customer financial and medical records used by the company's investment and medical services division.

The design must:

- protect the company's existing data center investment
- expand to a second data center site
- introduce process automation
- expand to and fail over to public cloud

Which two non-functional requirements are applicable for this design? (Choose two.)

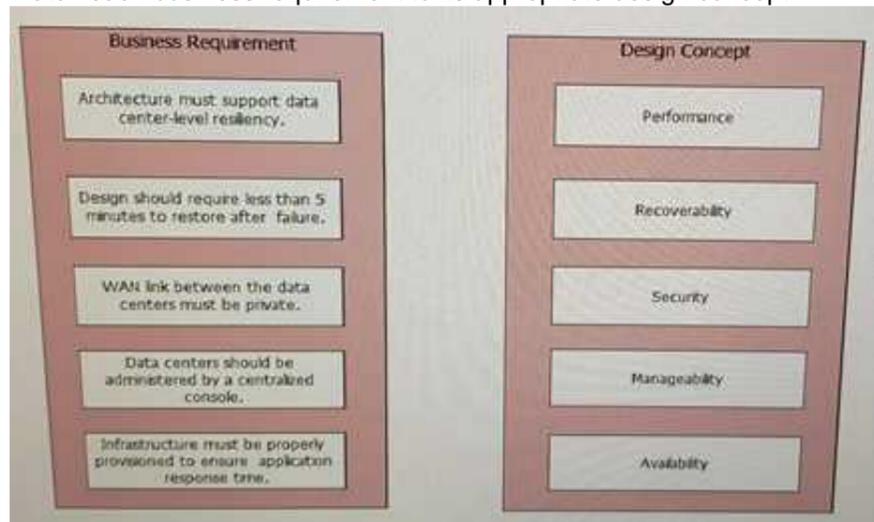
- A. The product of the design must account for regulatory compliance.
- B. The automation solution must be compatible with the existing equipment.
- C. The product of the design must feature 3DES encryption at the virtual machine disk level.
- D. At least two 10Gbps interfaces must be dedicated to storage on each host.
- E. Every host in the design must have Lockdown Mode enabled for security.

**Answer: CD**

**NEW QUESTION 8**

A company is a leading provider for an online travel booking system with over a \$1,000,000 turnover each day. The company wants 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.



- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Performance --> Infrastructure must be properly provisioned... Recoverability --> Design should require less than 5' to restore... Security --> WAN links between... Manageability --> DCs should be administered by a centralized console Availability --> Architecture must support DC level resiliency

**NEW QUESTION 9**

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.

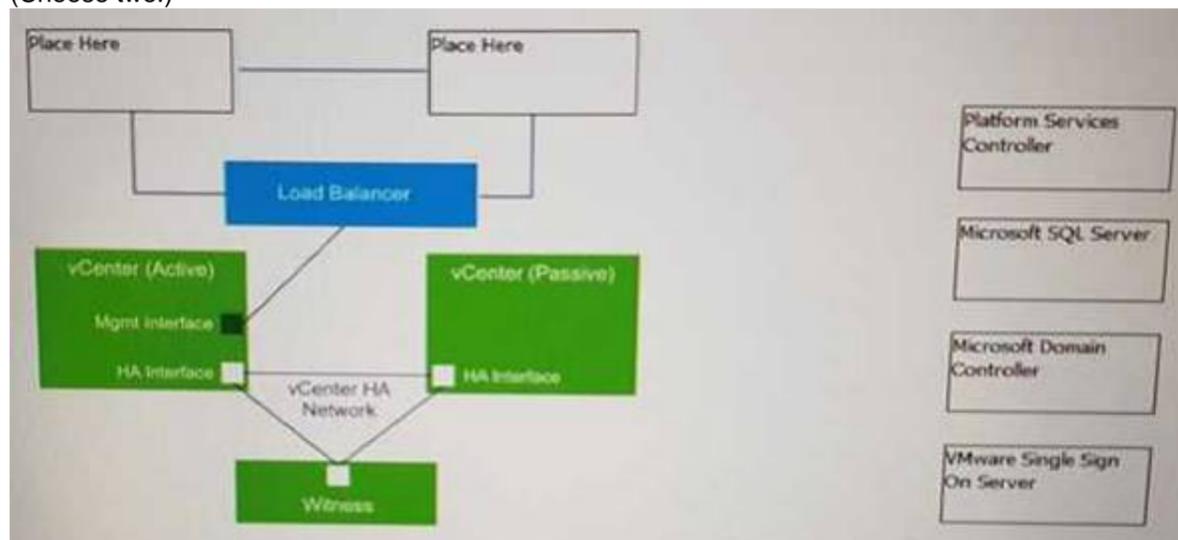
Which VMware technology must be used to meet this requirement?

- 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 10**

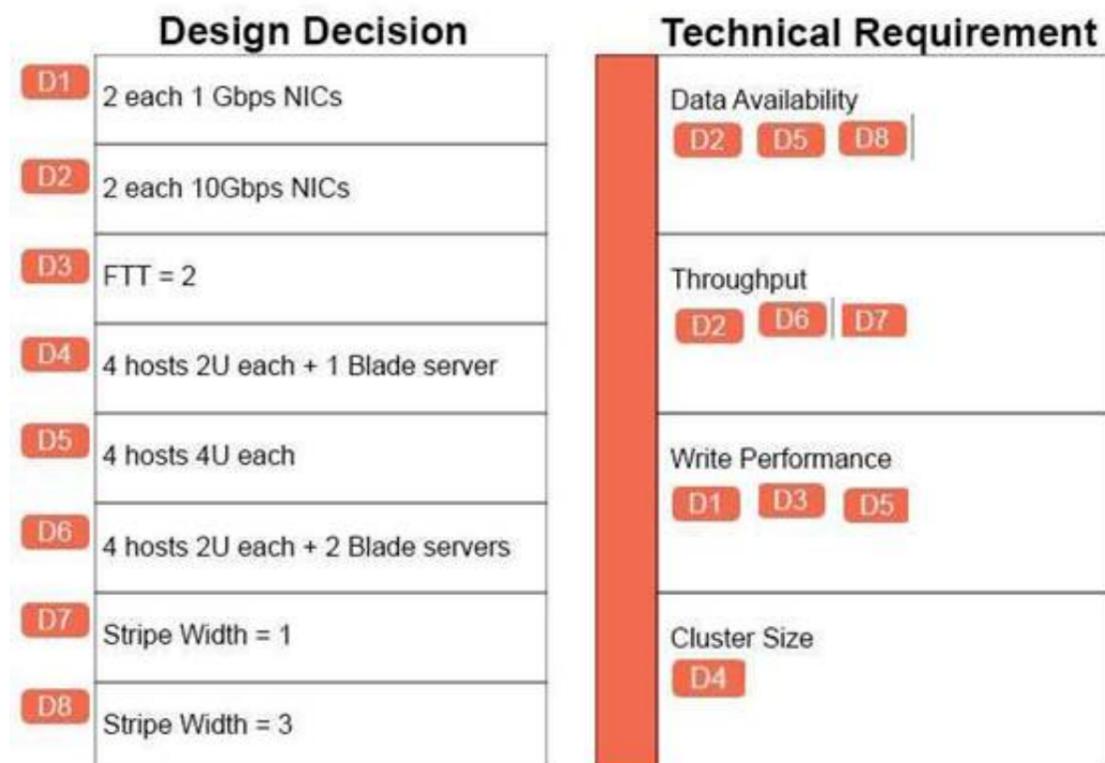
You have been tasked with creating a vSphere 6.5 design for an organization. The organization is looking to implement a Virtual SAN into their environment. You have been tasked with determining whether a given Virtual SAN logical design decision meets the technical requirements of their infrastructure. 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		
D4	4 hosts 2U each + 1 Blade server	Throughput	
D5	4 hosts 4U each		
D6	4 hosts 2U each + 2 Blade servers	Write Performance	
D7	Stripe Width = 1		
D8	Stripe Width = 3	Cluster Size	

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**



### NEW QUESTION 13

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

- 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.
- The proposed configuration will allow each developer to work independently and be able to collapse and re-create the environment as needed.
- QA Teams will be able to recreate the environment that is required for a specific application.
- Individual virtual machines in the blueprint are being continually updated with newly available software packages.
- 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.)

- EE and Bermuda libraries that are backed by an NFS file system.
- EE and Bermuda vCenter Servers with Enhanced Linked Mode.
- FTP protocol to transfer data between published in EE and subscribed in Bermuda libraries.
- Published library in EE backed by an NFS file system while subscribed library in Bermuda is backed up by datastore.
- A minimum 10 GbE connection between EE published and Bermuda subscribed libraries is required.
- EE and Bermuda vCenter Servers without Enhanced Linked Mode.

**Answer:** ABDF

### NEW QUESTION 14

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?

- NFS v3
- NFS v4.1
- FCoE
- iSCSI

**Answer:** B

### NEW QUESTION 18

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)

- 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
- Cluster 1• ESXi 5.6• Intel® Broadwell CPUs• EVC Disabled Cluster 2• ESXi 6.5• Intel® Broadwell CPUs• EVC Disabled
- 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
- 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 21

You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has provided a number of requirements, resulting in a preliminary vSphere cluster design shown in the Scenario. The organization has purchased additional servers configured with large amounts of resources (i.e. CPU, RAM) that could be integrated into the cluster design. Consider each vSphere cluster design and determine the benefit of adding additional servers to the design.

**Based on customer requirements, a vSphere Cluster design has been defined:**

- Cluster A** (8 ESXi hosts)
  - **High Performance** Resource Pool – 70% of all cluster resources, virtual machines have dedicated reservations for CPU and Memory that do not expand.
    - Contention Present: None
    - VMs: 20
  - **Infrastructure** Resource Pool – 30% of all resources, virtual machines have dedicated reservations for CPU and Memory that do not expand
    - Contention Present: None
    - VMs: 12
- Cluster B** (3 ESXi hosts)
  - **Development** Resource Pool – 50% of all resources, virtual machines have no CPU or Memory reservations present.
    - Contention Present: Memory Contended, no CPU Contention
    - VMs: 18
  - **Reporting** Resource Pool – 50% of all resources, virtual machines memory reservation may expand, no CPU reservation present.
    - Contention Present: Memory Contended, CPU Contended
    - VMs: 2
- Cluster C** (6 ESXi hosts)
  - **Client Back-End Hosting** Resource Pool – 75% of all resources, virtual machines have CPU and Memory limits
    - Contention Present: Memory Contended
    - VMs: 5
  - **Client Front-End Hosting** Resource Pool – 25% of all resources, virtual machines have no CPU limits, however memory limits are in place.
    - Contention Present: Memory contended, no CPU Contention

Match the Action on the left by dragging the red buttons (A1-A3) over the text of the corresponding Effect. NOTE: Actions taken might have more than one Effect on the cluster design.

Database Requirements	Design Characteristics
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #f00; color: white; padding: 2px 5px; border-radius: 3px;">R1</span> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">                     Add servers to Cluster A                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #f00; color: white; padding: 2px 5px; border-radius: 3px;">R2</span> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">                     Add servers to Cluster B                 </div> <div style="border: 1px solid black; padding: 5px;"> <span style="background-color: #f00; color: white; padding: 2px 5px; border-radius: 3px;">R3</span> </div> <div style="border: 1px solid black; padding: 5px;">                     Add servers to Cluster C                 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">                     Provides additional CPU resources to every virtual machine in the cluster.                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">                     Provides additional memory resources to every virtual machine in the cluster.                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">                     Provides additional CPU resources to some virtual machines in the cluster.                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">                     Provides additional memory resources to some virtual machines in the cluster.                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">                     No benefit to virtual machine CPU resources.                 </div> <div style="border: 1px solid black; padding: 5px;">                     No benefit to virtual machine memory resources.                 </div>

- A. Mastered
- B. Not Mastered

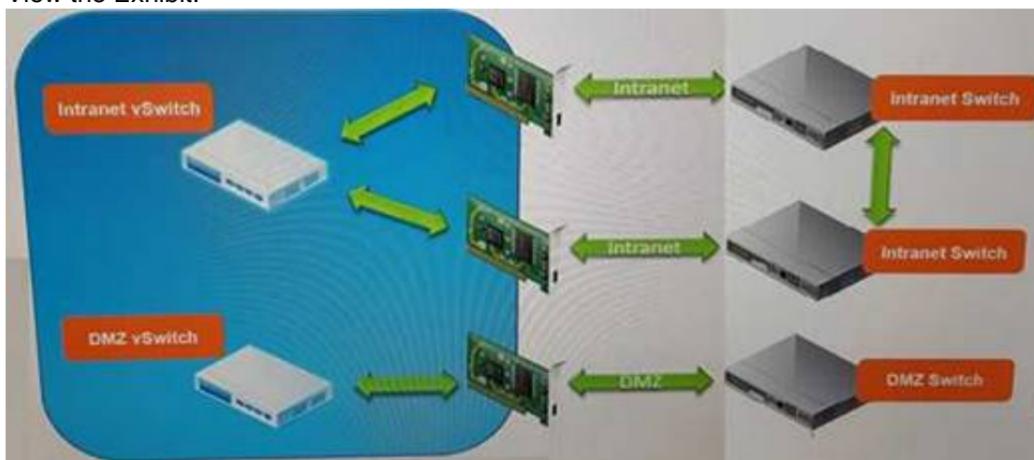
Answer: A

Explanation:

Database Requirements	Design Characteristics
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #f00; color: white; padding: 2px 5px; border-radius: 3px;">R1</span> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">                     Add servers to Cluster A                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <span style="background-color: black; color: black; padding: 2px 5px; border-radius: 3px;">R2</span> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">                     Add servers to Cluster B                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #f00; color: white; padding: 2px 5px; border-radius: 3px;">R2</span> </div> <div style="border: 1px solid black; padding: 5px;">                     Add servers to Cluster C                 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">                     Provides additional CPU resources to every virtual machine in the cluster.                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #f00; color: white; padding: 2px 5px; border-radius: 3px;">R3</span>                     Provides additional memory resources to every virtual machine in the cluster.                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #f00; color: white; padding: 2px 5px; border-radius: 3px;">R2</span>                     Provides additional CPU resources to some virtual machines in the cluster.                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #f00; color: white; padding: 2px 5px; border-radius: 3px;">R1</span>                     Provides additional memory resources to some virtual machines in the cluster.                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">                     No benefit to virtual machine CPU resources.                 </div> <div style="border: 1px solid black; padding: 5px;">                     No benefit to virtual machine memory resources.                 </div>

**NEW QUESTION 22**

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

**Answer:** EF

**NEW QUESTION 27**

A company would like to leverage snapshot technology on vSphere 6.5. Which configuration supports taking snapshots?

- A. Windows Failover Cluster VM with RDM in virtual mode
- B. vSphere Fault Tolerance VM
- C. Windows Failover Cluster VM with RDM in physical mode
- D. SQL Always On Availability Group

**Answer:** A

**NEW QUESTION 29**

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 31**

You have been tasked with creating a vSphere 6.5 design for an organization. The customer wants to ensure isolation in the network but does not know when to incorporate physical networks, VLANs and PVLANS.

Evaluate the design requirement and determine the isolation method to satisfy the design.

Match each Design Requirement on the left by dragging the red Requirement buttons (R1-R5) over the text of the appropriate Isolation Method.

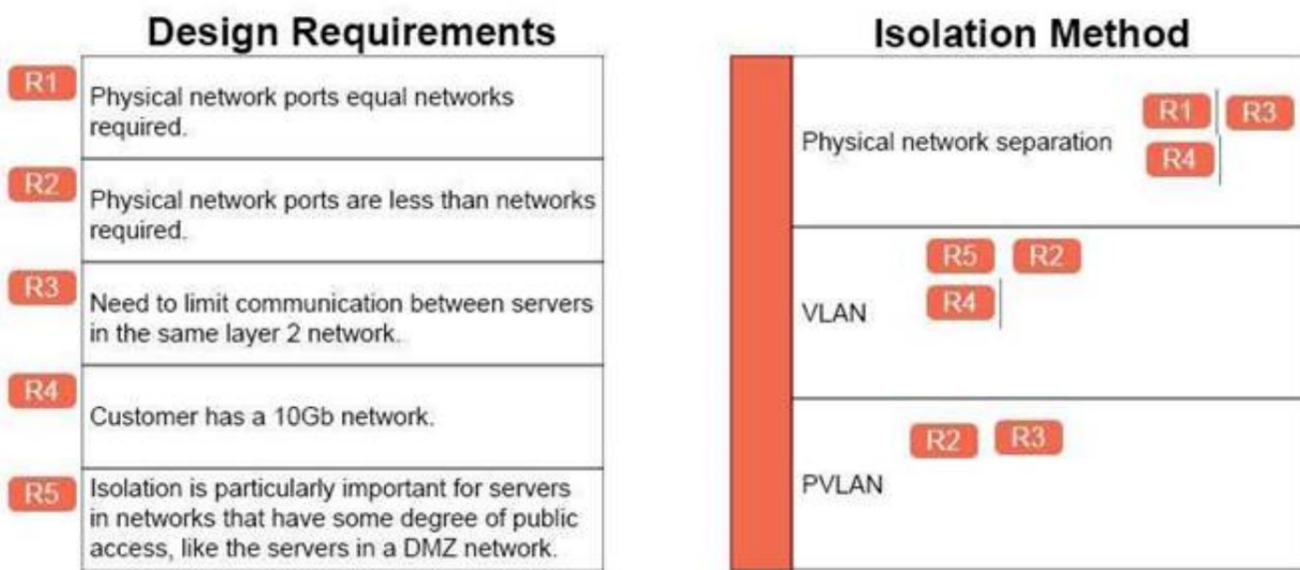
NOTE: Multiple Design Requirements may fit each Isolation Method.

Design Requirements		Isolation Method	
<b>R1</b>	Physical network ports equal networks required.	<div style="background-color: #f00; width: 20px; height: 100%; margin-bottom: 5px;"></div> Physical network separation	
<b>R2</b>	Physical network ports are less than networks required.		
<b>R3</b>	Need to limit communication between servers in the same layer 2 network.		VLAN
<b>R4</b>	Customer has a 10Gb network.		
<b>R5</b>	Isolation is particularly important for servers in networks that have some degree of public access, like the servers in a DMZ network.		PVLAN

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



**NEW QUESTION 35**

You have been provided with a list of requirements for a vSphere Design. For each requirement, categorize the requirement as a component of the WRT, RTO, RPO, MTD, and Recoverability.

Drag a requirement button (R1-R8) over to the green space provided beside the corresponding Design Phase.

Requirement	Design Phase
<b>R1</b> Determines the maximum acceptable amount of data loss measured in time.	WRT (Work Recovery Time)
<b>R2</b> Determines the maximum tolerable amount of time needed to bring all critical systems back online	RTO (Recovery Time Objective)
<b>R3</b> Determines the maximum tolerable amount of time that is needed to verify the system and/or data integrity	RPO (Recovery Point objective)
<b>R4</b> Defines the total amount of time that a business process can be disrupted without causing any unacceptable consequences	MTD(Maximum Tolerable Downtime)
<b>R5</b> Is how easy to recover infrastructure/services from a failure	Recoverability

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Requirement	Design Phase
Determines the maximum acceptable amount of data loss measured in time.	<b>R3</b> WRT (Work Recovery Time)
Determines the maximum tolerable amount of time needed to bring all critical systems back online	<b>R2</b> RTO (Recovery Time Objective)
Determines the maximum tolerable amount of time that is needed to verify the system and/or data integrity	<b>R1</b> RPO (Recovery Point objective)
Defines the total amount of time that a business process can be disrupted without causing any unacceptable consequences	<b>R4</b> MTD(Maximum Tolerable Downtime)
Is how easy to recover infrastructure/services from a failure	<b>R5</b> Recoverability

**NEW QUESTION 36**

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 38**

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)

**Answer:** A

**NEW QUESTION 39**

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.

Statement	Solution
<b>S1</b> The design should be able to support six ESXi hosts, four portgroups, vMotion, and iSCSI.	vSphere Standard Switch
<b>S2</b> 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
<b>S3</b> We plan to utilize Link Aggregation in the future, and integrate traffic monitoring into our existing NetFlow configuration.	VMware NSX
<b>S4</b> We would like to load balance our VM traffic, and we want to segment traffic with separate gateways for hosted customers.	PVLANS
<b>S5</b> We want to determine if our infrastructure can support virtual machine migration over long distance.	Multiple TCP/IP Stacks
<b>S6</b> We would like to gain greater control over our individual traffic types, and are thinking of adding Network I/O Control to the design.	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

**NEW QUESTION 40**

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 41**

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