



3V0-624^{Q&As}

VMware Certified Advanced Professional 6.5 – Data Center
Virtualization Design Exam

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QUESTION 1

A customer has these requirements for storage:

1.
Protocol used must have a file based access.
2.
Protocol used must have built in native multipathing.
3.
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

Correct Answer: B

Because NFS 4.1 are support authentication and is a file-based storage

QUESTION 2

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 3

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

Select and Place:



Services
MS Exchange
DNS Servers
NTP Servers
MS SQL Servers
Apache Web Servers
AD Domain Controllers
vCenter Server Appliance (vCSA)

Management Cluster
Place here
Place here
Place here
Place here

Resource Cluster
Place here
Place here
Place here

Correct Answer:



QUESTION 4

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:

1. application must be restarted quickly 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 maintenance



Drag each statement to its correct concept

Select and Place:

Statement	Concept
Applications must be restarted quickly.	Risk
Application downtime will result in significant financial loss.	Constraint
Latency between the two sites will remain at or below 5ms.	Assumption
Applications must be kept online during planned migration between sites.	Requirement

Correct Answer:

Statement	Concept
	Application downtime will result in significant financial loss
	Latency between the two sites will remain at or below 5ms.
	Applications must be kept online during planned migration between sites.
	Applications must be restarted quickly.

QUESTION 5

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.

Correct Answer: B

Private VLANs are used to solve VLAN ID limitations by adding a further segmentation of the logical broadcast domain



into multiple smaller broadcast subdomains. Private VLANs are Promiscuous, Secondary VLANs can be either Isolated or Community?

QUESTION 6

A leading steel manufacturer relies on SAP for purchase, sales, add invoice processing.

1.

It is planning to virtualize its servers to reduce CAPEX and OPEX.

2.

However, its CIO is concerned about the availability, performance, manageability, recoverability, and security for the SAP database and ERP instance. Match the business requirement with the appropriate design concept.

Select and Place:

Business Requirement	Design Concept
The application must scale within two hours.	Manageability
The application must support clustering between physical and virtual machines.	Performance
The application must be restored in 30 minutes in case.	Recoverability
The application data must be encrypted at rest.	Security
The application must generate 200 invoices concurrently.	Availiability

Correct Answer:



Business Requirement	Design Concept
	The application must support clustering between physical and virtual machines.
	The application must generate 200 invoices concurrently.
	The application must be restored in 30 minutes in case.
	The application data must be encrypted at rest.
	The application must scale within two hours.

QUESTION 7

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
Performance
Cost
Business Continuity
Disaster Recovery
Data Integrity

Client CIO
Place here.
Place here.
Place here.

Client CTO
Place here.
Place here.

Client Developer
Place here.

Correct Answer:



QUESTION 8

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

1.
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.
2.
The company requires each of its stores to be able to operate independently if connectivity is ever lost.
3.
Presently, all stores are configured differently and must be standardized as part of the technology refresh
4.
To support store operations, only a dozen applications are required.



5.

Any downtime during store hours could result in significant losses.

6.

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

Correct Answer: D

Reference: <https://www.vmware.com/files/pdf/products/vsan/vmware-vsan-robo-solution-overview.pdf> "The use of a virtual appliance as a witness host eliminates the need to deploy a third physical server, which reduces the overall cost of the solution without sacrificing the benefits of shared storage." "By default, a replica is placed on each host of the 2-node configuration. If one of the physical hosts is offline, it is still possible for virtual machines to run using replicas located on the other physical node. In the case where the hosts in a 2

node cluster are unable to communicate across the network, the witness host serves as a "tie-breaker" to achieve a quorum and maintain data accessibility and integrity." VSAN Robo satisfies requirements 2,5,6.

QUESTION 9

A solution architect has been tasked with designing a new environment that meets the needs of a growing company, and has obtained this information:

1.

The current capacity will be exhausted in 180 days, and the new infrastructure must be deployed and in production prior to that.

2.

The new servers have a 90-day delivery time.

3.

A data center for disaster recovery has been selected, and it is 20 miles away and connected by MPLS.

4.

The security team will continue to utilize its current investments and VM Encryption for the new environment.

5.

The backup team currently uses Data Domain, and reports show an 8.1 compression and deduplication ratio for backups. Based on the information obtained, which two statements are assumptions for the new design? (Choose two.)



- A. MPLS will be used to connect the two data centers.
- B. There is 180 days left of current capacity.
- C. Data Domain will get an 8:1 compression and deduplication ratio with the new workloads.
- D. A disaster will NOT affect both data centers.

Correct Answer: AD

A is not an assumption as its clearly stated that "20 miles away and connected by MPLS" is a risk, having 1/2 year left before you run out of space is a crisis

QUESTION 10

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 11

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.

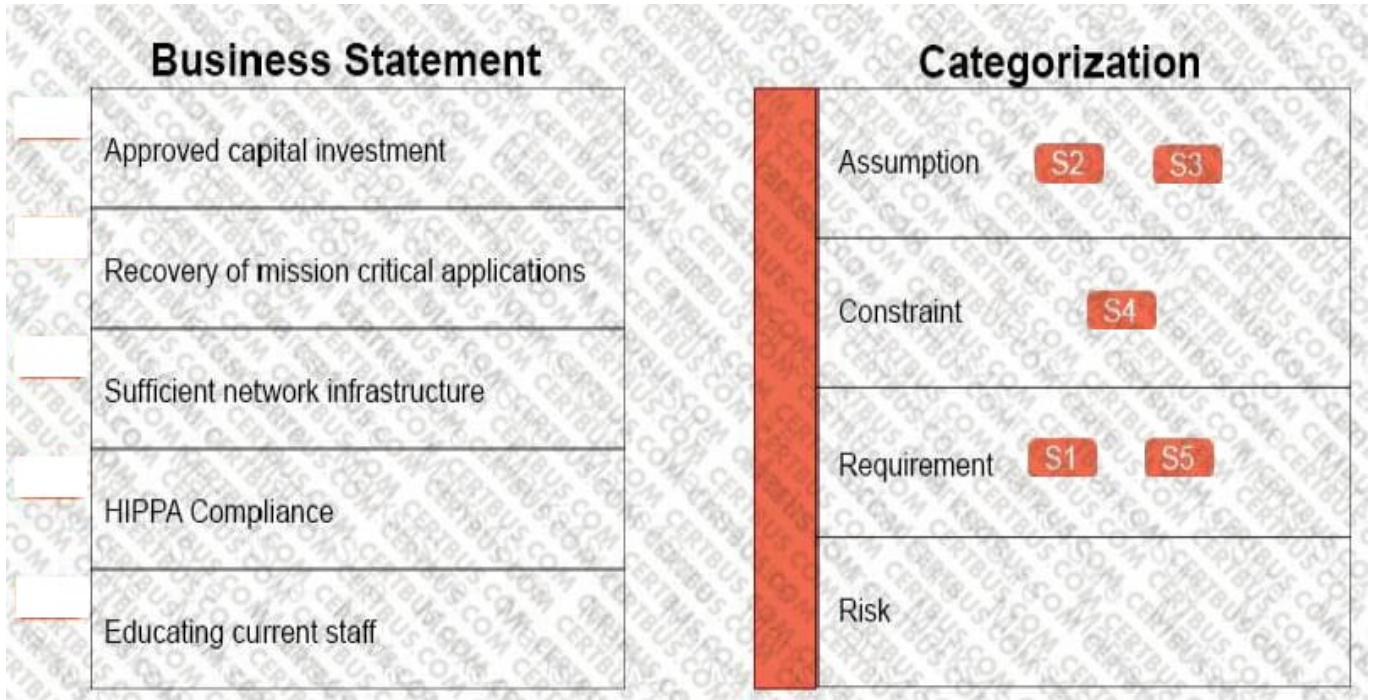
For each statement, you must determine if the statement should be categorized as an assumption, constraint, requirement or risk. Match each Business Statement by dragging the red Statement buttons (S1-S5) over the text of the appropriate Categorization. NOTE: Statements can have more than one Categorization.

Select and Place:

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		



Correct Answer:



QUESTION 12

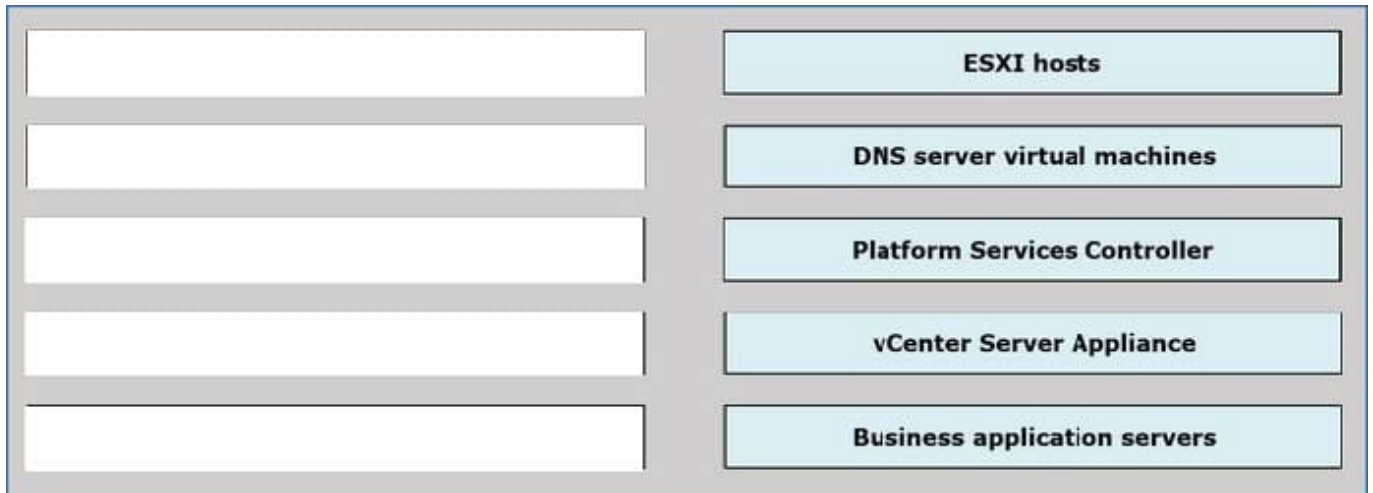
Power has just been restored to the data center after a catastrophic power failure. All storage and networks are back online.

In what order should the following systems be powered on?

Select and Place:

ESXI hosts	Step 1
Platform Services Controller	Step 2
Business application servers	Step 3
DNS server virtual machines	Step 4
vCenter Server Appliance	Step 5

Correct Answer:



QUESTION 13

A management company has requested that a new vSphere 6.5 design be developed to protect its existing data center investment while it expands to a second data center site and introduces process automation.

1.

The existing environment consists of 32 vSphere 6.0 hosts attached to an iSCSI storage array containing external customer financial and medical records used by its investment and medical services divisions.

2.

The customer is also interested in the ability to expand to and failover to a public cloud. Which two valid assumptions can be made about the new design? (Choose two.)

- A. The storage array is listed in the VMware Compatibility Guide (HCL/VCG) for vSphere 6.5. 12
- B. The resulting design should utilize the existing hardware choices.
- C. Sufficient power and cooling exists in the second data center.
- D. Sufficient bandwidth exists between the sites for cross-cluster vMotion.

Correct Answer: CD

QUESTION 14

A company has requested a new vSphere 6.5 design that will allow it to finally break the 80% virtualization barrier by virtualizing its resource-intensive application.

1.



The application is highly available by design and includes application-aware clustering software capable of operating as a fully distributed system.

2.

The company's Application Version 2.0 consists of 386 small applications and middleware with non-persistent storage and 24 database virtual machines at each data center.

3.

When coupled with a proper load balancing solution, this application can continue operating even with the loss of an entire data center, but the small applications and middleware tiers within a data center must exist within the same broadcast domain.

4.

The database tier is tightly controlled with a firewall policy that only allows middleware tier access, and is replicated to other sites using a dedicated circuit.

Which two application requirements apply to this scenario? (Choose two.)

- A. The application will require the configuration of an IGMP stub and helper.
- B. Shared storage is required by the application clustering software.
- C. The application will require one large subnet.
- D. The application will require a method of balancing and recovering sessions between sites.

Correct Answer: CD

More than one subnet will be required in order to enforce firewall rules between the applications and databases. Also, one cannot determine if IGMP Stub and Helper are required without more information around the application.

QUESTION 15

A company has requested that vSphere Virtual Machine Encryption be included in a vSphere 6.5 deployment design to meet the security requirements specified by its compliance team.

Which three design considerations would apply in this case? (Choose three.)

- A. RDM virtual machine disk configurations are NOT supported.
- B. Suspend/resume operations for an encrypted virtual machine are NOT supported.
- C. OVF Export is NOT supported for an encrypted virtual machine.
- D. Encryption performance is independent of CPU and storage speed.
- E. Cloning of encrypted virtual machine is NOT supported.

Correct Answer: BDE



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