



# 3V0-624<sup>Q&As</sup>

VMware Certified Advanced Professional 6.5 – Data Center  
Virtualization Design Exam

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### QUESTION 1

A virtualization administrator has been tasked with migrating several business applications from physical to virtual. The administrator must also migrate the virtual machines from VMware Workstation to vSphere 6.5, using vCenter Converter Standalone 6.1.

In this scenario, when two source types are supported? (Choose two.)

- A. powered-off Windows Server 2008 physical machine
- B. powered-on Windows Server 2000 Workstation virtual machine
- C. powered-off Windows Server 2008 Workstation virtual machine
- D. powered-on Windows Server 2008 physical machine

Correct Answer: CD

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### 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

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.

Select and Place:

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

Correct Answer:





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

#### QUESTION 4

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.

Select and Place:



	vSphere Service	Reservation Type
S1	vSphere HA	Fully reserved guest CPU
S2	vSphere DRS	
S3	Vmware Fault Tolerance	
S4	Virtual NUMA (vNuma)	Fully reserved guest RAM
S5	Storage I/O Control	
S6	vMotion	

Correct Answer:

	vSphere Service	Reservation Type
S1	vSphere HA	Fully reserved guest CPU S1 S6 S3 S5
S2	vSphere DRS	
S3	Vmware Fault Tolerance	
S4	Virtual NUMA (vNuma)	Fully reserved guest RAM S1 S3 S2 S6
S5	Storage I/O Control	
S6	vMotion	

## QUESTION 5

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

1.

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.



2.

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.

Correct Answer: ABC

Enabling CPU Hot-Add disables vNUMA: <https://kb.vmware.com/s/article/2040375>

As for the vNUMA in ESXi 6.0 vs 6.5, there have been some major changes. Really good article explaining it here: <https://blogs.virtualmaestro.in/2018/05/vnuma-vmware-vsphere-65.html>. Essentially, in 6.0 you defined the vNUMA domain by specifying Cores and Sockets (As described in the example). In 6.5, it is abstracted (simply multiplies Sockets and Cores together) and vSphere automatically decides the optimal vNUMA setting. In the example above, the 10 vCPU's can fit on a single NUMA domain.

<https://kb.vmware.com/s/article/2040375> <http://www.techspresso.com/vm-sizing-best-practices-in-vsphere/>  
<https://blogs.vmware.com/performance/2017/03/virtual-machine-vcpu-and-vnuma-rightsizing-rules-of-thumb.html>

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