



3V0-624^{Q&As}

VMware Certified Advanced Professional 6.5 – Data Center
Virtualization Design Exam

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QUESTION 1

Customer Information The Customer Labtown has a new vSphere 5 environment with one of their line of business applications recently being virtualized. Labtown requires that their Webserver, Database Server, and Fileserver for their line of business app be

created into a vAPP. The VM's should start up in a specific order to insure the application starts correctly after an outage or reboot. Labtown also wants the best performance possible out of each VM. There is three hosts in the cluster each running the same CPU and Memory specifications. each host is running at 60% utilization right now. Labtown doesn't have any budget for more hosts. Create a logical vAPP design for Labtowns Line of Business Application Requirements

-

The server must boot in the following order: DB, Fileserver, WebServer

-

Each VM must perform the best it can with the current cluster configuration Instructions

-Place the three VM's on the vAPP

-

Place the boot order boxes ontop of each VM to indicate the VM's boot order

-

Place the VM stencil for each VM in the DRS rules section if you wish to apply DRS rules to the design

-

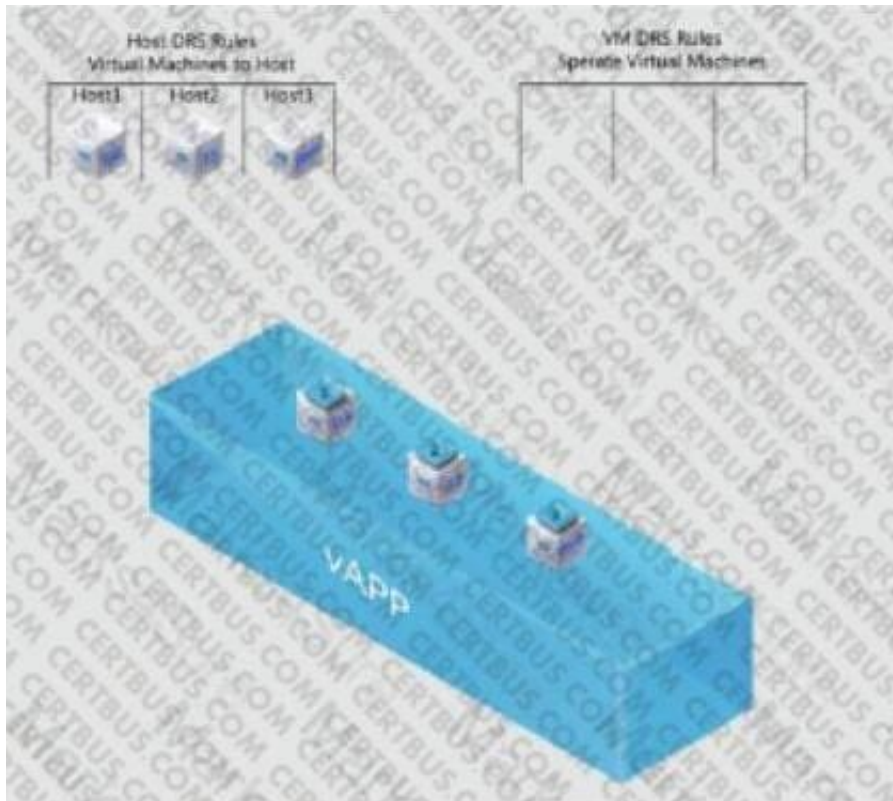
As long as VM's are on the vAPP stencil marks will be scored See the solution below

A.

Check the answer in explanation.

Correct Answer: A

Check below for answer solution:



QUESTION 2

A database administrator is operating a virtual machine (VM) configured with 16 vCPU and 64GB of RAM. A recent performance audit has indicated that this virtual machine is oversized and is using less than 60% of its configured CPU and memory capacity.

1.
The ESXi host that contains this VM has 2 physical processors with 10 cores per processor, and 128GB of RAM.
2.
This physical host's architecture is split into two equal NUMA nodes.

Which vCPU and RAM configuration for the VM allows for the most resources, but also provides the performance benefit of local NUMA access?

- A. 16 vCPU and 32GB RAM
- B. 4 vCPU and 16GB RAM
- C. 10 vCPU and 64GB RAM
- D. 12 vCPU and 64GB RAM

Correct Answer: C

$128/20=6.4*10=64$ (10vCPU and 64GB)



<https://blogs.vmware.com/performance/2017/03/virtual-machine-vcpu-and-vnuma-rightsizing-rules-of-thumb.html>

topology is calculated. So, this needs to be accounted for manually.

An ESXi host has 2 pSockets, each with 10 Cores per Socket, and has 128GB RAM per pNUMA node, totaling 256GB per host.

If you create a virtual machine with 128GB of RAM and 1 Socket x 8 Cores per Socket, vSphere will create a single vNUMA node. The virtual machine will fit into a single pNUMA node.

If you create a virtual machine with 192GB RAM and 1 Socket x 8 Cores per Socket, vSphere will still only create a single vNUMA node even though the requirements of the virtual machine will cross 2 pNUMA nodes resulting in remote

memory access. This is because only the compute dimension is considered.

The optimal configuration for this virtual machine would be 2 Sockets x 4 Cores per Socket, for which vSphere will create 2 vNUMA nodes and distribute 96GB of RAM to each of them."

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.

Correct Answer: BCD

You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has provided information via requirements gathering. Evaluate each statement and determine if the requirement is functional or nonfunctional.

Match Requirements on the left by dragging the red buttons (R1-R9) over the text of the appropriate Classification.

Select and Place:



Requirements		Classification
R1	The design must provide sufficient capacity to current workloads with a 15% growth per year for three years.	Functional
R2	The design must use the company's existing network equipment for the next two years.	
R3	The design must isolate traffic between segments on different physical or virtual nodes.	
R4	The design must be able to recover from a failed software service, application or system in an average of 1 hour.	
R5	The design must provide three ways to access company data, to minimize downtime.	
R6	The design should minimize retraining costs of existing administrators who will manage the environment.	Non-Functional
R7	The design must use approved hardware (Cisco UCS) for host machines due to winning competitive bidding.	
R8	The design should contain administration costs by utilizing the existing support ticketing system.	
R9	The design uses offsite storage of tape backups to maintain a remote copy to meet auditor requirements.	

Correct Answer:



Requirements	Classification
The design must provide sufficient capacity to current workloads with a 15% growth per year for three years.	Functional R3 R4 R7 R8 R9
The design must use the company's existing network equipment for the next two years.	
The design must isolate traffic between segments on different physical or virtual nodes.	
The design must be able to recover from a failed software service, application or system in an average of 1 hour.	
The design must provide three ways to access company data, to minimize downtime.	
The design should minimize retraining costs of existing administrators who will manage the environment.	Non-Functional R1 R2 R5 R6
The design must use approved hardware (Cisco UCS) for host machines due to winning competitive bidding.	
The design should contain administration costs by utilizing the existing support ticketing system.	
The design uses offsite storage of tape backups to maintain a remote copy to meet auditor requirements.	

QUESTION 5

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

1.

The company ensures that the bank's customer data is secure and that analytics data is available when needed.

2.

Customers rely on this data before making crucial business and financial decisions.

3.

Just a few minutes of downtime can result in loss of revenue and trust.

4.

To meet high-availability requirements, the company's IT infrastructure components must be redundant.

5.

The company established three data centers across the globe and interconnected them with high-speed WAN links.



6.

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.

Correct Answer: AD

Read carefully: two key "challenges" NOT two key "requirements". Therefore A and D are correct, "challenges". If it said two key "requirements" then B and C would be correct.

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