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VMware Certified Advanced Professional 6.5 – Data Center Virtualization Design Exam

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QUESTION 1

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)

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

"When a vNUMA topology is calculated, it only considers the compute dimension. It does not take into account the amount of memory configured to the virtual machine, or the amount of memory available within each pNUMA node when a

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

Example:

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 in 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."

QUESTION 2

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

QUESTION 3

A company is outsourcing its support operations to an external service provider and plans to complete the project by April 1.

1.

The external Support engineers must have the ability to power cycle, create, and edit virtual machines settings within their assigned vSphere site.

2.

The company maintains three vCenter servers in Enhanced Linked Mode that are run as virtual machines in the supported infrastructure.

3.

The vCenter servers will be supposed by the external service provider.

4.

Each vCenter server is connected to its own local Platform Services Controller and MSSQL database server.

5.

The company will provide escalation support and physical access on a per request basis.

6.

99.9% ESXi host uptime is required in this environment, but no SLA has been specified for the hosted applications.

Drag each statement to its appropriate concept.

Select and Place:

Statement	Concept
The SLA allows for only 8 hours of downtime per year.	Risk
Remote support engineers are able to edit virtual machines settings.	Constraint
Missing the April 1 deadline will result in additional costs to the company.	Assumption
The company is appropriately staffed to support escalation and physical access.	Requirement

Correct Answer:

Statement	Concept
	Missing the April 1 deadline will result in additional costs to the company.
	Remote support engineers are able to edit virtual machines settings.
	The company is appropriately staffed to support escalation and physical access.
	The SLA allows for only 8 hours of downtime per year.

QUESTION 4

A solution architect has finished conducting interviews and gathering requirements for a company, and has determined that the logical requirements are:

1.

two data centers for high availability

2.

synchronous replication to meet the zero minute RPO

3.

separating management workloads from application workloads

4.

 dedicated 10Gb uplink for each low latency server

5.

 single management port for the entire environment

Which two actions would meet the design requirements? (Choose two.)

A. Create two data center objects in vCenter Server.

B. Configure vSAN Stretched Clustering.

C. Configure SR-IOV for low latency servers.

D. Create one folder for Management workloads and one folder for application workloads.

Correct Answer: BD

Folders don\\'t separate workloads (management object only) and Zero-RPO implies vSAN stretched cluster. Even though thee vSAN nodes are at different sites, they must reside within one logical data center in vCenter (and inside a single Cluster Object).

QUESTION 5

A customer has storage arrays from two different storage vendors at two different sites. The customer warts 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

Correct Answer: A

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