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Virtualization Design Exam

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QUESTION 1

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.

Uptime is critical during regular business hours when 95% of transactions occur. Application uptime must be 99.9% during those hours.

2.

In a true disaster, the business can withstand a day of data loss and half a day of downtime.

3.

The company is one year into a 5-year contract with the co-lo data center.

4.

The building that is currently occupied no longer has any floor space available, but the company has three empty racks of space.

5.

There are current contacts with Dell to provide servers and Cisco to provide network components.

6.

The network team has standardized on an end-to-end 10Gb network.

Based on this information, which two statements are constraints for the new design? (Choose two.)

A. There are only three available racks in the currently-leased data center.

B. Corporate standards dictate the use of 10Gb throughout the network.

C. Distributed Switches must be used.

D. In four years, the company will outgrow its current data center space.

Correct Answer: BC

QUESTION 2

A company has a cluster consisting of 72GHZ of processor resources and has these requirements:

1.

Virtual machines in the Production pool must run without contention of any CPU resources with the other pools, while Development and QA VMs do NOT share this restriction.

2.

QA VMs are considered the least important in this environment.

Which resource pool design would achieve the company's need without introducing unnecessary contention?

A	Production CPU Reservation: 30GHz CPU Limit: None CPU Shares: Normal	Development CPU Reservation: None CPU Limit: None CPU Shares: High	QA CPU Reservation: None CPU Limit: None CPU Shares: Normal
B	Production CPU Reservation: 30GHz CPU Limit: None CPU Shares: Normal	Development CPU Reservation: 25GHz CPU Limit: None CPU Shares: High	QA CPU Reservation: 17GHz CPU Limit: 17GHz CPU Shares: Normal
C	Production CPU Reservation: 30GHz CPU Limit: None CPU Shares: Normal	Development CPU Reservation: None CPU Limit: 25GHz CPU Shares: High	QA CPU Reservation: 17GHz CPU Limit: None CPU Shares: Normal
D	Production CPU Reservation: 30GHz CPU Limit: None CPU Shares: Normal	Development CPU Reservation: None CPU Limit: 25GHz CPU Shares: High	QA CPU Reservation: None CPU Limit: 17GHz CPU Shares: Normal

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

Correct Answer: A

QUESTION 3

A company's CTO is very concerned about web server outages that are caused by server hardware failures. Which feature can protect the web server virtual machine from this kind of outage?

- A. vCenter High Availability
- B. Proactive High Availability
- C. High Availability Orchestrated Restart
- D. High Availability Admission Control

Correct Answer: B

"Proactive HA integrates with select hardware partners to detect degraded components and evacuate VMs from affected vSphere hosts before an incident causes a service interruption" <https://docs.vmware.com/en/VMware->

vSphere/6.7/com.vmware.vsphere.avail.doc/GUID-3E3B18CC-8574-46FA-9170-CF549B8E55B8.html
<https://www.altaro.com/vmware/vsphere-6-5-proactive-ha-works/>

QUESTION 4

A customer wants to improve the performance of its vMotion migrations. The current configuration has only one VMkernel port group for vMotion using vmnic3. The customer has vmnic5 available for use. What change can be made to increase vMotion performance?

- A. * Add vmnic5 to the vMotion Port Group as an active uplink.
- * Create a second vMotion Port Group with vmnic5 as an active uplink and vmnic3 as an active uplink.
- B. * Add vmnic5 to the vMotion Port Group as a standby uplink.
- * Do not create a second vMotion Port Group.
- C. * Add vmnicS to the vMotion Port Group as a standby uplink.
- * Create a second vMotion Port Group with vmnicS as an active uplink and vmnic3 as a standby uplink.
- D. * Add vmnic5 to the vMotion Port Group as an active uplink.
- * Do not create a second vMotion Port Group.

Correct Answer: D

QUESTION 5

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)

Correct Answer: A

A VASA VM should definitely not run on a vVol as it is then dependent on itself. Similarly, the VASA VM is dependent on vCenter, so both should be kept on a standard VMFS or NFS volume. If you have vCenter on a vVol, and both VASA VM and vCenter go down you are SOL.

"You should not run VASA Provider on a VVOL datastore. Any management operation, including powering on a virtual machine that is on a VVOL, requires that VASA Provider be running. In addition, you would lose access to all VVOLs because VASA Provider would not be able to boot."

<https://library.netapp.com/ecmdocs/ECMP12405937/html/GUID-5B810B73-0233-4F3B-80BE-47A415D2F107.html>

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