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Question 1

Which requirement would be classified as a functional requirement within the design documentation?

Options:

A- The system must perform virtual machine backups through an API.

B- Virtual machines must be patched within one month of the patch release date.

C- Virtual machines must be restarted within 30 minutes of a host failure.

D- The system must be able to scale to support 500 concurrent virtual machines.

Answer:

D

Question 2

A customer defines a requirement to minimize the vMotion migration time during a maintenance period. The servers being used are equipped with eight 1 GbE network adapters.

Per the defined logical network configuration, there are two network adapters each used for:

Management traffic

vMotion traffic

iSCSI traffic

Virtual machine traffic

Which design decision should the architect make to meet the customer requirement?

Options:

A- Use Network I/O Control to define a reservation for vMotion traffic.

B- Implement Multi-NIC vMotion by adding additional vMotion VMkernels.

C- Configure a dedicated TCP/IP stack for vMotion traffic.

D- Combine vMotion and Management traffic to make use of four adapters.

Answer:

B

Explanation:

https://kb.vmware.com/s/article/2007467

https://communities.vmware.com/t5/VMware-vSphere-Discussions/vmotion-load-balanced-across-multiple-uplinks-on-distributed/td-p/491336

https://www.virtuallyboring.com/multi-nic-vmotion/

We maintain the 2 x 1 GbE network adapters for vMotion and then configure multiple VMkernel interfaces using the same NIC and network. Each time you add a VMkernel adapter and enable it for vMotion, you create a new stream. With more streams, there is greater bandwidth utilization.

https://kb.vmware.com/s/article/2007467

https://communities.vmware.com/t5/VMware-vSphere-Discussions/vmotion-load-balanced-across-multiple-uplinks-on-distributed/td-p/491336

https://www.virtuallyboring.com/multi-nic-vmotion/

Even though 2 x network adapters are dedicated to vMotion, only 1 of the uplinks will be used during a vMotion activity if only one vMotion vmkernel is configured. Adding an additional vmkernel will allow both to be used.

Per the VMware KB above 'After making these configuration changes, when you initiate a vMotion, multiple NIC ports are used. Even when performing a vMotion on just one virtual machine, both links are used.'

Also the question states 'Per the defined logical network configuration, there are two network adapters each' which suggests that changing this to combine vMotion/Mgmt traffic may not be possible based on the customers requirements (as the logical network architecture is already defined by them)

Question 3

An architect has 50 ESXi hosts to deploy and DHCP servers are not allowed on any network. Which automated host deployment method should the architect use?

Options:

A- Stateless vSphere Auto Deploy

B- Stateful vSphere Auto Deploy

C- Scripted installation

D- Interactive installation

Answer:

C

Explanation:

'Running a script is an efficient way to deploy multiple ESXi hosts' with an unattended installation. https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.esxi.install.doc/GUID-00224A32-C5C5-4713-969A-C50FF4DED8F8.html

Question 4

Question Type: **MultipleChoice**

Which of the listed requirements would be classified as a recoverability non-functional requirement?

Options:

A- The platform must be integrated with existing change control policies.

B- The platform must be able to support a maximum tolerable downtime (MTD) of 30 minutes.

C- Maintenance windows must be scheduled to take place monthly during an established overnight period.

D- The platform must be available 24 hours a day, 7 days a week with the exception of scheduled downtime.

Answer:

B

Explanation:

Recoverability - Easy to restore after an outage

Mesurements : MTD, RPO, RTO

Question 5

Question Type: MultipleChoice

An architect is tasked with designing a new VMware software-defined data center (SDDC) solution for an online retail customer who has a primary and secondary data center as well as 10 distribution hubs.

The customer has provided the following business requirements to help inform the design:

The solution must support the running of up to 1,000 concurrent virtual machines across the primary and secondary data center.

The solution must support the running of up to 20 concurrent virtual machines in each distribution hub.

The solution must support the separation of management and lines-of-business application virtual machines.

All management components (including directory services, backup, automation, operations and logging) must be deployed to the primary data center.

All virtual infrastructure components must have redundancy of N+1.

All sites are connected to each other using a wide area network that has multiple diversely routed links.

The solution should support a monthly uptime target of 99.9%.

The recovery time objective (RTO) for the solution must be four hours.

The recovery point objective (RPO) for the solution must be 24 hours.

Given the information from the customer, which assumption should the architect include in the design?

Options:

A- All business application virtual machines can be deployed into a single cluster within the primary data center.

B- Each distribution hub should be configured with a backup device.

C- The wide area network has sufficient bandwidth to support centralized management.

D- Each cluster will have a minimum of four hosts.

Answer:

C

Question 6

An architect is designing a new backup solution for a vSphere platform that has been recently upgraded to vSphere 7.

The architect wants the backup solution to perform the following:

Full virtual machine image backup and restore

Incremental virtual machine image backup and restore

File level backup and restore within both Windows and Linux virtual machines

LAN-free backup

Which functional requirement should the architect include in the design of the new backup solution?

Options:

A- The backup solution must leverage the VMware Consolidated Backup (VCB) framework.

B- The backup solution must leverage virtual machine snapshots.

C- The backup solution must leverage VMware vSphere Storage APIs - Data Protection.

D- The backup solution must leverage VMware vStorage APIs for Data Protection (VADP).

Answer:

C

Explanation:

Question 7

Question Type: **MultipleChoice**

During a requirements gathering workshop, the customer provides the following requirement:

A new vSphere platform must be designed securely and all interfaces must be protected against potential snooping.

How should this non-functional security requirement be documented?

Options:

A- Interfaces must be audited.

B- Encrypted channels must be used for all communications.

C- Unauthorized access to interfaces must be reported within 15 minutes.

D- Communications must be through Private VLANs (PVLAN).

Answer:

D

Explanation:

PVLANs divide the broadcast domain into multiple broadcast sub-domains and allow further isolating different devices within the same VLAN. They provide layer 2 isolation between ports within the same broadcast domain. For example: 'Your ESXi host uses several networks. Use appropriate security measures for each network, and isolate traffic for specific applications and functions. For example, ensure that VMware vSphere vMotion traffic does not travel over networks where virtual machines are located. Isolation prevents snooping. Having separate networks is also recommended for performance reasons.' https://docs.vmware.com/en/VMware-vSphere/7.0/vsphere-esxi-vcenter-server-70-security-guide.pdf

Question 8

An architect is designing a new vSphere cluster. The requirement is to provide a total of 96 CPU cores and 1.5 TB RAM across all hosts.

The following information has been provided:

Two different physical hardware profiles are available for the ESXi hosts in the cluster.

- Profile 1: 16 CPU cores and 256 GB RAM

- Profile 2: 32 CPU cores and 512 GB RAM

Profile 2 is twice as expensive to purchase as Profile 1.

Which two aspects should the architect consider when selecting the hardware profile? (Choose two.)

Options:

A- The manufacturer and model of the CPUs in the hosts

B- The amount of capacity available for failover of virtual machines within the cluster

C- The downtime allowed for virtual machines that will be running within the cluster

D- The cost to procure and maintain the hardware

E- The number of virtual machines that will be running within the cluster

Answer:

B, E

Question 9

Question Type: MultipleChoice

As part of a requirements gathering workshop, the customer provides the following requirements for the design of a new greenfield virtual infrastructure:

Some applications have a latency that must be less than 5 minutes.

The solution must be able to support a workload growth rate of 10% per year.

Which requirement classification is being gathered for the design documentation?

Options:

A- Performance

B- Manageability

C- Recoverability

D- Availability

Answer:

A