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QUESTIONS & ANSWERS
DEMO VERSION
(LIMITED CONTENT)

Question 1

Question Type: MultipleChoice

During the creation of a vSphere-based design solution, an architect identifies the following assumption:

The customer will be responsible for providing all licensing for the vSphere platform.

The storage hardware has sufficient capacity for future workload scale.

The data center offers sufficient power, cooling and rack space for workload scale.

When documenting each assumption within the design, which two corresponding pieces of information must the architect also define? (Choose two.)

Options:

- A- The data center does not have sufficient capacity to meet the requirements for workload scale.
- B- The storage hardware may not have capacity for future workload scale.
- C- Additional data center locations have been identified. Contracts will be signed to bring the capacity online within 12 months.
- D- The project sponsor is responsible for the data center capacity. The administrator is accountable and the architect is informed.
- E- Additional storage capacity can be procured to expand the solution in the future as needed.

Answer:

B, E

Explanation:

The storage hardware may not have capacity for future workload scale:

While the assumption is that the storage hardware has sufficient capacity for future workload scale, it's important to acknowledge that there may be scenarios where the current storage capacity might not be sufficient. The architect must document this potential limitation as a risk to the design, ensuring that it is clear that the capacity assumption is not guaranteed.

Additional storage capacity can be procured to expand the solution in the future as needed:

This statement provides a mitigation strategy to address the assumption regarding storage capacity. If future scale requires more storage than initially provided, the design should include a strategy for procuring and integrating additional storage resources to meet demand as needed. This helps ensure scalability and adaptability in the future.

Question 2

Question Type: MultipleChoice

An architect is holding a design workshop with a customer for a new solution. The customer states that the new solution needs to provide the following capabilities:

Automated deployment and lifecycle management of the vSphere platform

Self-Service deployment of virtual machines and other objects from a central catalog

Monitoring, logging and analytic tooling to provide visibility and troubleshooting of the whole solution

Support deployment via infrastructure-as-code methods for the additional management components

The customer also requests that the solution be as cost-effective as possible while still delivering a fast time to value for the organization.

Which design approach should the architect recommend to meet these requirements?

Options:

A- Use VMware Validated Designs for the vSphere solution and VMware Validated Solutions for the additional components

B- Use VMware Cloud Foundation for the vSphere solution and VMware Validated Solutions for the additional components

C- Use VMware Cloud Foundation for the vSphere solution and a custom design for the additional components

D- Use a custom design for the vSphere solution and VMware Validated Solutions for the additional components

Answer:

B

Explanation:

The customer has outlined the following requirements:

Automated deployment and lifecycle management of the vSphere platform: This requires a solution that provides automated provisioning, management, and updates. VMware Cloud Foundation (VCF) is an integrated platform that provides automation for the lifecycle of the vSphere platform, including updates and patch management.

Self-Service deployment of virtual machines and other objects from a central catalog: VMware Cloud

Foundation includes tools like vRealize Automation (part of VCF) that enable self-service provisioning of virtual machines and other resources. Additionally, VCF provides centralized management for provisioning and orchestration.

Monitoring, logging, and analytic tooling for visibility and troubleshooting: VMware Cloud Foundation integrates with vRealize Operations and vRealize Log Insight, which provides visibility, monitoring, and logging capabilities for the entire solution. These tools help in analytics and troubleshooting across the entire infrastructure.

Support deployment via infrastructure-as-code methods for additional management components: VMware Validated Solutions (such as vRealize Automation or vRealize Orchestrator) provide infrastructure-as-code capabilities, ensuring that the solution can be deployed in a consistent, repeatable manner, automating deployments of not just vSphere but also additional management components.

Cost-effectiveness with a fast time to value: VMware Cloud Foundation offers an integrated solution that is pre-configured and validated, which speeds up deployment and reduces operational complexity. By using VMware Validated Solutions for additional management components, the customer can leverage existing, tested solutions that are optimized for use with VCF, ensuring cost-effectiveness while meeting requirements.

Question 3

Question Type: MultipleChoice

An architect is tasked with creating a design for a vSphere-based solution.

Reviewing requirements with the security team, the architect makes the following design decision:

ESXi hosts in the environment will enable shell sandbox for SSH connections and the local ESXi shell

What is an implication of the design decision to enable shell sandboxing?

Options:

- A- Only certain commands can be executed in the sandboxed shell
- B- Only administrative accounts can access the sandbox shell
- C- All commands executed in the sandbox shell will be logged
- D- The vSphere 8 hosts will operate in strict lockdown mode

Answer:

A

Explanation:

When the shell sandbox is enabled on ESXi hosts, it restricts the execution of commands within the shell to ensure that only authorized or safe commands are allowed. This provides a level of isolation that limits the potential for accidental or malicious commands to be run in the shell, enhancing security while still providing necessary administrative access.

Question 4

Question Type: MultipleChoice

A company is expanding and will be deploying new vSphere environments in multiple new locations. All environments use datastores backed by multiple storage technologies and vendors.

How can the architect create a design to efficiently and repeatedly distribute existing company virtual machine (VM) templates to multiple new locations?

Options:

- A- Use storage array replication tools to replicate the storage volume holding the company VM templates to each remote site.
- B- Upload company templates to a cloud provider and download to each new location.
- C- Create a published content library and have the new locations subscribe to it.
- D- Create a local content library at each site and manually copy only needed templates.

Answer:

C

Explanation:

This option allows for a centralized repository of VM templates that can be efficiently and repeatedly distributed to multiple locations. By creating a published content library, you enable the new locations to subscribe to this library, ensuring that the templates are synchronized and easily accessible. This approach minimizes manual effort and ensures consistency across all sites.

Question 5

Question Type: MultipleChoice

An architect is responsible for the lifecycle management design for a brownfield vSphere-based solution.

The following information has been provided during initial meetings around the new solution:

Existing heterogeneous server hardware will be used to provide the hosting platform.

The available hardware is:

- 10 servers that contain 2 x 20-Core Intel Xeon processors and 512GB RAM from Vendor A
- 10 servers that contain 2 x 24-Core Intel Xeon processors and 768GB RAM from Vendor A
- 20 servers that contain 2 x 16-Core AMD EPYC processors and 512GB RAM from Vendor B
- 10 servers that contain 1 x 24-Core AMD EPYC processors and 256GB RAM from Vendor B

All of the hardware is currently listed on the VMware Hardware Compatibility List (HCL).

All existing server hardware has 36months vendor support remaining.

The requirements from the customer are:

REQ001 - The solution must support the hosting of 5,000 workloads spread across two physical sites.

REQ002 - The solution should minimize the number of clusters.

REQ003 - The solution must ensure that there is no impact to service when completing upgrades.

Given the resource requirements needed for the solution, the architect has calculated that all of the existing servers will be required to provide sufficient resources for the new environment. The Intel-based (Vendor A) servers will be deployed to the primary site and both the Intel-based and AMD-based servers (Vendor B) will be deployed to the secondary site.

Which assumption should the architect make to support the lifecycle management of vSphere 8?

Options:

- A- The different processor architectures across both sites will remediate against a shared vSphere Lifecycle Manager baseline.
- B- The different processor architectures will be located in the same cluster to support vSphere Lifecycle Manager image-based remediation.
- C- The different processor architecture within a single site will remediate against a single vSphere Lifecycle Manager image.
- D- The different processor architectures across both sites will remediate against a single vSphere Lifecycle Manager image.

Answer:

C

Explanation:

vSphere Lifecycle Manager (vLCM) is used to manage ESXi host configurations and software versions in a consistent and streamlined manner. In this case, the architect needs to account for the heterogeneous hardware across two sites (Intel and AMD-based servers).

Since Intel and AMD processors are incompatible for remediation with a single vSphere Lifecycle Manager image, the different processor architectures should be grouped by site (not across sites). Within each site, vLCM can manage a single image per processor architecture, ensuring that each site's hosts with compatible processors are remediated consistently. Intel-based servers will be managed with one image and AMD-based servers with another image, but they can be managed in separate sites.

This approach avoids the issue where heterogeneous hardware with different processor types would need separate images. By keeping them within the same site, the architecture simplifies the lifecycle management and meets the requirement for minimizing clusters and ensuring service availability during upgrades.

Question 6

Question Type: MultipleChoice

An architect is tasked with designing a repeatable edge hosting solution using VMware technologies that can be deployed to existing hotels across the world and operate independently of other locations.

During interviews with stakeholders, the architect notes the following information:

There are 123 hotels in total.

All hotels have a minimum of two 1Gbps connections for guest Internet access.

The company operates hotels in four countries: Canada, USA, Cuba and Mexico.

The company is rebranding the hotels located in Mexico.

Which of these is a business factor that will impact this design?

Options:

A- The company is rebranding the hotels located in Mexico.

B- The company operates hotels in four countries: Canada, USA, Cuba and Mexico.

C- There are 123 hotels in total

D- All hotels have a minimum of two 1Gbps connections for guest Internet access.

Answer:

A

Explanation:

This is a business factor that will impact the design because rebranding the hotels in Mexico could lead to changes in the company's requirements, such as the need for new branding, updated infrastructure, or integration of new services. These factors will influence the design decisions related to the edge hosting solution, potentially requiring special configurations or considerations for these locations.

Question 7

Question Type: MultipleChoice

An architect has made the following assumptions:

The customer will provide licensing for the vSphere platform.

The storage hardware has sufficient capacity for future workload scale.

The data center offers sufficient power, cooling and rack space for workload scale.

Which two risks must be documented in the design document in response to these assumptions? (Choose two.)

Options:

A- The assumptions must be approved by the customer, architect and the architect's company.

B- The storage may not have capacity to accommodate 20% year over year virtual machine growth.

C- The licenses provided by the customer only have support entitlement for one year.

D- The customer may not have an existing licensing subscription that covers features the architect intends to use.

E- The customer may not have sufficient data center cooling, power, and physical rack space available.

Answer:

B, D

Explanation:

The storage may not have capacity to accommodate 20% year-over-year virtual machine growth.

This is a risk because, while the assumption is that the storage hardware has sufficient capacity, there is a possibility that the hardware may not be able to support future growth, especially if the customer's workload grows faster than expected. Documenting this risk ensures that the design considers potential capacity constraints.

The customer may not have an existing licensing subscription that covers features the architect intends to use.

This is a risk because although the assumption is that the customer will provide licensing, there may be discrepancies between the features required for the design and the customer's existing licensing. This risk ensures that the architect verifies that the customer's licensing aligns with the solution requirements.

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