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Exam : **3V0-21.23**

Title : VMware vSphere 8.x Advanced Design

Version : DEMO

1.Following a review of security requirements, an architect has confirmed the following requirements:
- REQ001- A clustered firewall solution must be placed at the perimeter of the hosting platform, and all ingress and egress network traffic will route via this device.
- REQ002- A distributed firewall solution must secure traffic for all virtualized workloads.
- REQ003- All virtualized workload, hypervisor, firewall and any management component system events must be monitored by security administrators.
- REQ004- The hosting platforms security information and event management (SIEM) system must be scalable to 20,000 events per second.
- REQ005- The hosting platforms storage must be configured with data-at-rest encryption.
- REQ006- The hosting platform limits access to authorized users.
Which three requirements would be classified as technical (formerly non-functional) requirements? (Choose three.)
A. A clustered firewall solution must be placed at the perimeter of the hosting platform, and all ingress and egress network traffic will route via this device.
B. A distributed firewall solution must secure traffic for all virtualized workloads.
C. The hosting platforms security information and event management (SIEM) system must be scalable to 20,000 events per second.
D. The hosting platforms storage must be configured with data-at-rest encryption.
E. The hosting platform limits access to authorized users.
F. All virtualized workload, hypervisor, firewall and any management component system events must be monitored by security administrators.
Answer: CDE
Explanation:
A clustered firewall solution must be placed at the perimeter of the hosting platform, and all ingress and egress network traffic will route via this device:
This is a technical requirement because it specifies how network traffic is to be managed through a specific infrastructure element (the firewall). It outlines how the security device is implemented in the network architecture.
The hosting platform's security information and event management (SIEM) system must be scalable to 20,000 events per second:
This is a technical requirement because it deals with the scalability and performance of the SIEM system. It specifies how the system must handle a large volume of data, which is a technical characteristic of the infrastructure.
The hosting platform's storage must be configured with data-at-rest encryption:
This is also a technical requirement because it defines how the data should be stored securely, which is an implementation detail. It specifies that encryption needs to be applied to stored data, a feature related to storage infrastructure.

2.An architect is designing a solution for a customer to meet the following business objectives:
Pass compliance audits
Reuse compute hardware
Grow by 10% per year
Move to a subscription-based consumption model
Which business objective translates as a conceptual model constraint?

A. Pass compliance audits
B. Reuse compute hardware
C. Move to a subscription-based consumption model
D. Grow by 10% per year
Answer: B
Explanation:
This is the business objective that translates to a conceptual model constraint, as it is an external requirement that must be met by the system design, influencing how the architecture should be shaped. Compliance audits often dictate specific standards, security, and operational procedures that must be adhered to, which restricts the design choices in terms of governance and best practices.

3.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?
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.

4.An architect is documenting the design decisions for a new vSphere solution. The following design decision has been made:
Create a separate vSphere cluster for the management workloads
What could the architect include as justification for this design decision?
A. This increases operational overhead as multiple clusters are required for management and compute workloads.
B. This increases capital expenditure as hardware must be purchased for multiple clusters.
C. This ensures that compute workloads have no impact on the management workloads.
D. This ensures that compute workloads have no impact on the management workloads.
Answer: C
Explanation:
Creating a separate vSphere cluster for management workloads ensures that these workloads, which are critical for monitoring, managing, and orchestrating the environment, do not compete for resources with compute workloads. This separation enhances the stability and reliability of management functions, even during periods of high resource utilization by compute workloads.

5.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 1 Gbps 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?
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 1 Gbps 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.