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Question 1

There is a request for approved virtual machine applications through a new vSphere platform's integrated automation portal. The platform was built following all provided company security guidelines and has been assessed against Sarbanes-Oxley Act of 2002 (SOX) regulations.

The platform has the following characteristics:

vRealize Operations is being used to monitor all clusters.

There is a dedicated ESXi cluster, supporting all management services.

All network traffic is via distributed virtual switches (DVS).

There is a dedicated ESXi cluster for all line-of-business applications.

Network traffic is serviced by NSX-T.

There is a dedicated ESXi cluster for virtual desktop infrastructure (VDI).

Network traffic is serviced by NSX-T.

The application owner is requesting approval to install a new service that must be protected as per the Payment Card Industry (PCI) Data Security Standard.

Which additional non-functional requirement should the architect include in the design to support the new service?

Options:

A- The vSphere hosting platform and all PCI application virtual machines must be assessed against Payment Card Industry (PCI) Data Security Standard compliance.

B- The vSphere hosting platform and all PCI application virtual machines must be assessed for SOX compliance.

C- The vSphere hosting platform and all PCI application virtual machine network traffic must be routed via NSX-T.

D- The vSphere hosting platform and all PCI application virtual machines must be monitored using the vRealize Operations Compliance Pack for Payment Card Industry.

Answer:

D

Explanation:

The vSphere hosting platform and all PCI application virtual machines must be monitored using the vRealize Operations Compliance Pack for Payment Card Industry.

'Non-functional requirements specify all the remaining requirements not covered by the functional requirements. They specify criteria that judge the operation of a system, rather than specific behaviours'

Question 2

A customer has a database cluster with 40/60 read/write ratio and a high IOPs requirement with no contention on an all-flash vSAN cluster.

Which two storage settings should be configured for best performance? (Choose two.)

Options:

A- IOPs limits enabled

B- RAID 1

C- Deduplication and Compression disabled

D- RAID 5/6

E- Deduplication and Compression enabled

Answer:

B, C

Question 3

During a requirements gathering workshop to design a physical to virtual migration, the customer provides the following information:

There is no physical firewall in the data center with no anticipated plans for a future network refresh.

Leveraging the virtual infrastructure to mitigate the lack of network security must be addressed in the design.

All physical servers to be migrated exist on the same VLAN.

Which recommendation should the architect make to address the customer requirement with regard to virtual networking?

Options:

A- Split the virtual machines into several VLANs
Use tag actions

B- Create port groups with different names and same VLAN IDs
Enable traffic shaping for ingress and egress traffic

C- Enable traffic filtering and marking
Use allow or drop actions

D- Disable traffic filtering and marking Use tag actions

Answer:

C

Explanation:

Question 4

Question Type: **MultipleChoice**

In a meeting to discuss the minimum viable product (MVP) deployment of a new customer-facing application, the key stakeholder shares details of the application components and the application administrators share details of performance and integrity tests for the application.

The application will be made up of the following components:

A web server

- Steps to confirm the web server is operating correctly will take 15 minutes after the application server is online.

An application server

- Steps to confirm application server integrity will take 15 minutes after the database is online.

A database server

- The database server will be managed by a database administrator, with an agreed service-level agreement (SLA) to restore and validate database services within one hour.

The existing VMware infrastructure offers a recovery point objective (RPO) of 5 minutes and recovery time objective (RTO) of 15 minutes through a combination of backups and replication.

In the event of an outage impacting all three application components, how long will it take for the application to recover and complete all checks?

Options:

A- 15 minutes

B- 60 minutes

C- 105 minutes

D- 90 minutes

Answer:

C

Explanation:

15 restore VMs + 60 restore and test DB + 15 test app server + 15 test web server

Question 5

An architect is tasked with designing a greenfield VMware software-defined data center (SDDC) solution that will be used to deliver a private cloud service for a customer.

During the initial meeting with the service owner and business sponsor, the customer has provided the following information to help inform the design:

The solution must initially support the concurrent running of 300 production and 600 development virtual machines.

The production environment should be delivered across two geographically dispersed data centers. The development environment must be vSphere-based but does not have to be deployed on-premises.

The two data centers are connected to each other through multiple diversely routed, high bandwidth and low latency links.

The customer's server hardware standard document states that all virtual infrastructure hosts must be based on blade architecture only.

The service owner has said that is important to ensure that neither the availability target of 99.5% nor the resource capacity is affected when the operations team completes maintenance activities, such as the monthly software patching and ad-hoc hardware break/fix.

All virtual machine backups must be completed using the existing backup service. The recovery time objective (RTO) for the service is four hours.

The recovery point objective (RPO) of the service is 24 hours.

Given the information from the customer, which two would be classified as assumptions within the design? (Choose two.)

Options:

A- The backup service will store data in a secure facility

B- The backup service has sufficient capacity for the new requirements

C- The customer will update their hardware standard to support rack mount servers

D- All virtual machines will be deployed with the same resource profile for production and development

E- The clusters will have a minimum redundancy of N+1

Answer:

B, E

Explanation:

B) The backup service has sufficient capacity for the new requirements

'All virtual machine backups must be completed using the existing backup service.'

The existing backup service may not have capacity or compatabiltiy for the new SDDC

E) The clusters will have a minimum redundancy of N+1

'The service owner has said that is important to ensure that neither the availability target of 99.5% nor the resource capacity is affected when the operations team completes maintenance activities'

We assume N+1 is sufficient. They may require a higher level of redundancy.

Question 6

Question Type: MultipleChoice

The Chief Operating Officer (COO) at an organization raises concerns that their virtual infrastructure environment is vulnerable. Recently, a security-related issue with a virtual machine caused all management services to become unavailable. No budget is available in the short term for additional platform investment. An architect is asked to review the current environment and make recommendations

to mitigate concerns.

A virtualization administrator has provided the following details:

There is a single four node cluster of ESXi servers

There are two, Layer 2, physical network switches connecting resources

The data center network is presented as a single /16 subnet

Given the information provided, which functional requirement should the architect include in the design to mitigate the COOs concerns?

Options:

A- The virtual infrastructure environment must connect application virtual machines and management services to new physical network switches

B- The virtual infrastructure environment must connect application virtual machines and management services to separate distributed virtual switches (DVS)

C- The virtual infrastructure environment must connect application virtual machines and management services to separate VLANs

D- The virtual infrastructure environment must connect management services to a vSphere standard switch (VSS)

Answer:

C

Explanation:

'VLANs let you segment a network into multiple logical broadcast domains at Layer 2 of the network protocol stack.'
https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.networking.doc/GUID-C42AFA4A-1BDA-4ECC-B2D1-6E538771B2C3.html

Question 7

Question Type: MultipleChoice

Following a recent acquisition, an architect needs to merge IT assets into its current data center. The combined vSphere environment will need to run the newly acquired company's virtual machines.

Network integration work has already been completed and the current environment has capacity to host all virtual machines. The Operations team needs to identify which virtual machines belong to the acquired company and report on their usage.

How should the architect merge the company's assets and virtual machines?

Options:

A- Leave the newly acquired company's assets in its current place

B- Lift and shift the acquired assets into the data center

C- Migrate the acquired company's virtual machines into the existing vSphere environment

D- Migrate and apply vSphere tags to the acquired company's virtual machines

Answer:

D

Explanation:

The Operations team needs to identify which virtual machines belong to the acquired company and report on their usage. We can use tags to report on usage.

Question 8

Question Type: MultipleChoice

An architect is designing a new greenfield environment that will install ESXi on local disks. There is a requirement to streamline initial and future installations of ESXi hosts.

Which configuration option should the architect recommend for installing ESXi hosts to meet these requirements?

Options:

A- Installation with kick start script

B- Auto Deploy with stateless caching mode

C- Manual installation using boot from SAN

D- Auto Deploy with stateful install mode

Answer:

D

Explanation:

Stateful Install: When a host is booted for the first time, the host profile configuration states Auto Deploy is to install ESXi on local host storage. All consecutive host boots, only the local storage is used until the image profile configuration is changed. Stateless: Auto Deploy is used to install ESXi in memory on the target host. The state information of the ESXi host is managed by Auto Deploy. No local storage is required.

Question 9

An architect is designing a new VMware software-defined data center (SDDC) that will consist of 100 branch sites connected to a single VMware vCenter Server within the primary data center. To allow for the use of existing automation scripts, there is a requirement to replicate the names of the virtual distributed port groups across all sites. The procurement team purchases licensing and there is no further budget allocated.

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

Options:

A- A new vCenter Server will be deployed for each branch site

B- A new host and cluster folder will be created for each branch site

C- The automation script will be updated to reflect unique naming for each site

D- A new virtual data center will be created for each branch site

Answer:

D

Explanation:

Hosts provisioned with vSphere Auto Deploy cache the image (stateless caching):

Set up and apply a host profile for stateless caching. You can cache the image on a local disk, a remote disk, or a USB drive. Continue provisioning this host with vSphere Auto Deploy. If the vSphere Auto Deploy server becomes unavailable, for example because hundreds of hosts attempt to access it simultaneously, the host boots from the cache. The host attempts to reach the vSphere Auto Deploy server after the boot operation to complete configuration.

Hosts provisioned with vSphere Auto Deploy become stateful hosts:

Set up and apply a host profile for stateful installs. When you provision a host with vSphere Auto Deploy, the image is installed on the local disk, a remote disk, or a USB drive. For subsequent boots, you boot from the disk. The host no longer uses vSphere Auto Deploy.

https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.esxi.install.doc/GUID-C6FBA22C-048A-455F-9D45-58834445ACA5.html

Question 10

Question Type: **MultipleChoice**

The storage team at an organization is planning to migrate from an older Fibre Channel storage environment to a new environment using IP-based storage.

Which two switch features or characteristics are appropriate for IP storage networks? (Choose two.)

A- Fabric extending devices

B- Spanning Tree Protocol (STP)

C- 2:1 or greater bandwidth oversubscription for 10 GbE switches

D- Non-blocking switch

E- Deep or ultra buffered switches

Answer:

D, E

Explanation:

https://www.arista.com/en/solutions/ip-storage-network-infrastructures

https://www.dell.com/community/s/vjauj58549/attachments/vjauj58549/solutions-ch/488/1/h13104-dedicated-networks-for-ip-storage-wp.pdf

Question 11

Question Type: **MultipleChoice**

An architect is designing a new vSphere platform for a customer to meet the following requirements:

The platform must be deployed into five physically separate sites.

The sites are spread across multiple regions.

Some sites require more than one vCenter Server.

The platform must provide an administrator with the ability to access virtual infrastructure components across all sites from a single management tool instance.

Which single sign-on (SSO) design recommendation will meet these requirements?

Options:

A- Use an SSO domain across all vCenter Server instances

B- Use an SSO domain per region

C- Use an SSO domain per vCenter Server instance

D- Use an SSO domain per site

Answer:

A

Explanation:

Use an SSO domain across all vCenter Server instances 'The platform must provide an administrator with the ability to access virtual infrastructure components across all sites from a single management tool instance' Having a single SSO domain will achieve this.

'The platform must provide an administrator with the ability to access virtual infrastructure components across ALL SITES from a SINGLE management tool instance' this is Linked mode.

Question 12

Question Type: **MultipleChoice**

An architect is tasked with designing a greenfield VMware software-defined data center (SDDC) solution that will be used to deliver a private cloud service for a customer.

During the initial meeting with the service owner and business sponsor, the customer has provided the following information to help inform the design:

The solution must support the concurrent running of 1,000 virtual machines

The production environment must be delivered across two geographically dispersed data centers All virtual machines must be capable of running in either data center.

The two data centers are currently connected to each other through a single but diversely routed, high bandwidth and low latency link.

The link between the two data centers is capable of supporting a round-trip time (RTT) of 150 ms The existing server hardware standard document states that all virtual infrastructure hosts must be deployed using vSAN ReadyNodes

The service owner has stated that it is critical to ensure the availability target of 99.9% All virtual machine backups must be completed using the existing backup service

The recovery time objective (RTO) for the service is five minutes

The recovery point objective (RPO) of the service is four hours

Which two elements represent risks to the successful delivery of this solution? (Choose two.)

Options:

A- The use of only two data centers

B- The network connectivity between data center sites

C- The use of vSAN ReadyNodes

D- The RTT on the link between the two data centers

E- The use of the existing backup service

Answer:

B, E

Explanation:

B) The backup service has sufficient capacity for the new requirements

'All virtual machine backups must be completed using the existing backup service.'

The existing backup service may not have capacity or compatabiltiy for the new SDDC

E) The clusters will have a minimum redundancy of N+1

'The service owner has said that is important to ensure that neither the availability target of 99.5% nor the resource capacity is affected when the operations team completes maintenance activities'

We assume N+1 is sufficient. They may require a higher level of redundancy.