VMware

Exam Questions 3V0-21.23

VMware vSphere 8.x Advanced Design

NEW QUESTION 1
During a transformation project kick-off meeting, an architect highlights specific areas on which to focus while developing the new conceptual design.
Which two of the listed statements are business requirements? (Choose two.)

A. The project should use the existing storage devices within the data center
B. Sites must support a network latency of less than 12 ms round-trip time (RTT)
C. The solution must allow data replication between sites
D. There is no budget specifically assigned for disaster recovery
E. There must not be a single point of failure for the virtual infrastructure

Answer: CE

NEW QUESTION 2
An architect is designing the expansion of an existing vSphere 7 environment. The customer is requesting a design for a new cluster to support the anticipated future business growth. The requirements specified for the existing environment design must be considered when designing the new cluster.
The existing design has the following requirements:
> REQ01 The environment has an availability target of 99.5% for all infrastructure.
> REQ02 The recovery time objective (RTO) for Tier 1 virtual machines is one hour.
> REQ03 Windows and Linux virtual machines must reside on separate clusters.
> REQ04 Access to the management cluster within the environment must be controlled. Which of the listed requirements would be classified as a functional requirement?

A. The environment has an availability target of 99.5% for all infrastructure
B. The recovery time objective (RTO) for Tier 1 virtual machines is one hour
C. Access to the management cluster within the environment must be controlled
D. Windows and Linux virtual machines must reside on separate clusters

Answer: D

NEW QUESTION 3
An architect will be taking over control of a former Linux server fleet and repurposing the hardware into a new vSphere cluster. The current environment is already connected to the network but the hosts do not have any local disks. Since the fleet hardware is uniform, the architect can use a single ESXi image. All hosts within the cluster have the same CPU and memory capacity.
Which ESXi deployment method should the architect use?

A. Stateless cached vSphere Auto Deploy
B. Stateless vSphere Auto Deploy
C. Manual install of each ESXi host with an image from USB
D. Stateful vSphere Auto Deploy

Answer: B

NEW QUESTION 4
During a requirements gathering workshop, the customer's Chief Information Security Office (CISO) provides the following requirements that are pertinent to the design of a new vSphere environment:
> All operating system critical patches must be installed within 24 hours of release.
> All virtual machine templates must be updated every three months in line with company policy.
Which requirement classification is being gathered for the design documentation?

A. Security
B. Manageability
C. Recoverability
D. Availability

Answer: A

Explanation:
This is lifecycle management function. The requirement is system critical patches, not system security patches.

NEW QUESTION 5
An architect is designing a new greenfield environment with 600 ESXi hosts in an automated fashion. The engineering department already has a PXE Boot server, TFTP server, and DHCP server set up with an NFS mount for their current Linux servers.
The architect must be able to demonstrate and meet a security requirement to have all infrastructure processes separated.
Which recommendation should the architect make for the ESXi host deployment?

A. Request an isolated network segment to use and dedicate it to Auto Deploy functions
B. Ask the business to expand the engineering environment to service the virtual environment as well
C. Request a common shared network with flexible security measures to accommodate different auto deployment options
D. Deploy each ESXi host individually and document it to satisfy security requirements

Answer: A

Explanation:
https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.esxi.install.doc/GUID-8DAC6FEE-0441-4072

NEW QUESTION 6
An architect is considering placement of virtual machines within an existing VMware software-defined data center (SDDC).
During the discovery phase, the following information is documented:

Cluster One
- Six ESXi hosts
- vSphere HA with host failures cluster tolerates = 1
- Proactive HA is enabled and set to automated
- Fully Automated vSphere DRS
- Transparent Page Sharing (TPS) is enabled

Cluster Two
- Eight ESXi hosts
- vSphere HA with host failures cluster tolerates = 1
- Proactive HA is disabled
- Partially Automated vSphere DRS
- Transparent Page Sharing (TPS) is disabled

Cluster Three
- Three ESXi hosts
- vSphere HA with admission control is disabled
- Proactive HA is not supported
- Transparent Page Sharing (TPS) is disabled

Virtual Machine Resource Profile 1
- Memory sharing techniques should not be used
- Virtual machines should be automatically restarted in the event of host failure if resources are available
- Automated initial virtual machine placement

Virtual Machine Resource Profile 2
- Memory sharing techniques can be used
- Virtual machines should be protected from any host hardware failures
- Automated initial virtual machine placement

Which two recommendations should the architect make for placement of the virtual machines to meet resource profile requirements? (Choose two.)

A. All virtual machines matching Virtual Machine Resource Profile 2 should be placed on Cluster One.
B. All virtual machines matching Virtual Machine Resource Profile 1 should be placed on Cluster One.
C. All virtual machines matching Virtual Machine Resource Profile 2 should be placed on Cluster Two.
D. All virtual machines matching Virtual Machine Resource Profile 1 should be placed on Cluster Two.
E. All virtual machines matching Virtual Machine Resource Profile 2 should be placed on Cluster Three.

Answer: BD

NEW QUESTION 7
An architect is tasked with recommending a solution for a company that is running out of VLANs. Currently the company is running two separate data centers based on vSphere including an Enterprise Plus license. In the first data center, the problem was solved by using VMware NSX and overlay network. In the second data center, there is currently no VMware NSX implementation in place and no budget for additional licenses.
What should the architect recommend as a potential solution to provide support for additional VLANs?

A. Separate Distributed Virtual Switches (DVS)
B. Private VLANs (PVLAN)
C. Virtual Guest Tagging (VGT)
D. vSwitch VLAN Tagging (VST)

Answer: A

NEW QUESTION 8
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?

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: B

NEW QUESTION 9
Which requirement would be classified as a functional requirement within the application design documentation?

A. The application must be hosted with redundancy levels of N+1 or better.
B. Penetration testing must be executed quarterly with a pass rate of 80% or higher.
C. The application must be capable of handling 200 transactions per second.
D. Administrators must monitor the network traffic of the desired systems.

Answer: C

NEW QUESTION 10
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.)

A. IOPs limits enabled
B. RAID 1
C. Deduplication and Compression disabled
D. RAID 5/6
E. Deduplication and Compression enabled

Answer: AB

NEW QUESTION 10
An architect is creating a network design for a new vSphere environment.
Based on customer requirements, the environment must support the following types of traffic:
➢ Management
➢ vMotion
➢ vSAN
➢ Fault Tolerance
➢ Virtual machine traffic, which cannot be impacted by other types of traffic
Which design recommendation can the architect make for a resilient infrastructure with vSphere network service tiering?

A. Use different logical networks to ensure traffic is isolated with separate VLANs
B. Use Network I/O Control and ensure appropriate share value is defined for different types of traffic giving priority to the virtual machines traffic
C. Use two dedicated virtual switches with a single adapter each, dedicating one virtual switch for Management, vMotion, vSAN and Fault Tolerance traffic, and the second one for virtual machine traffic
D. Use a NIC teaming policy based on the physical NIC load

Answer: A

NEW QUESTION 13
An architect is designing a vSphere environment for a customer based on the following information:
➢ The vSphere cluster will have three hosts only due to budget considerations.
➢ A database cluster (node majority) consisting of three virtual machines will be running on the vSphere cluster.
Which two recommendations can the architect make so that the customer achieves the highest level of application availability while taking into consideration operational resiliency? (Choose two.)

A. Create VM-VM anti-affinity rules
B. Set das.respectvmvmantiaffinityrules to false
C. Create VM-Host anti-affinity rules
D. Disable vSphere HA during maintenance
E. Set das.ignoreinsufficienthbdatastore to true

Answer: BC

NEW QUESTION 14
An architect decides to separate virtual desktops and application servers into separate vSphere clusters to meet security and management requirements.
What are two implications of this design decision? (Choose two.)

A. There will be an increase in management overhead.
B. Identical hardware must be procured for all hosts.
C. There will be a reduction in performance.
D. The patching cycles will affect both clusters at the same time.
E. There will be additional licensing and cost requirements for both clusters.

Answer: DE

NEW QUESTION 19
An architect is tasked with expanding an existing VMware software-defined data center (SDDC) solution so that it can be used to deliver a virtual desktop infrastructure (VDI) service off-shore development activities.
The production environment is currently delivered across two geographically dispersed data centers. The two data centers are currently connected to each other through multiple diversely routed, high bandwidth and low latency links. The current operations management components are deployed to a dedicated management cluster that is configured with N+1 redundancy. The current VMware software-defined data center (SDDC) has a monthly availability target of 99.5%, which includes all management components.
The customer requires that the new solution scale to support the concurrent running of 500 persistent virtual desktops. The virtual desktops must not share the same virtual infrastructure as existing virtual machines, but can be managed using the same VMware operations management components. Any new VDI service management components must be installed into the management cluster. There is no requirement to back up the virtual desktops because all relevant user data is stored centrally. The VDI service is providing business critical services and must have an availability target of 99.9%.
Given the information from the customer, which two assumptions would the architect include in the design? (Choose two.)

A. The existing virtual infrastructure has sufficient capacity to host the new VDI workloads
B. The existing operations monitoring tools have sufficient capacity to monitor the new VDI services
C. The existing management cluster has enough available capacity to host any VDI service management component
D. The management cluster has N+1 redundancy
E. The VDI service has a higher service-level agreement (SLA) than the operations management SLA

Answer: BD

NEW QUESTION 23
An architect is reviewing a physical storage design. The customer has specified that a new active-passive based storage array will be used to provide storage for the vSphere clusters.

Which configuration should for the architect recommended?

A. VMW_SATP_LOCAL
B. VMW_PSP_MRU
C. VMW_SATP_DEFAULT_AA
D. VMW_PSP_FIXED

Answer: B

NEW QUESTION 28
Which of the listed requirements would be classified as a recoverability non-functional requirement?

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: A

NEW QUESTION 30
A customer has six hosts available in a cluster. When running at full capacity, all virtual machines can be run on two hosts.
How many hosts can the customer place into maintenance mode at the same time while still providing N+2 resiliency to the cluster?

A. Two
B. Three
C. One
D. None

Answer: A

NEW QUESTION 31
An architect is finalizing the design for a new vCenter Server High Availability deployment. What is one thing the architect must document in the design?

A. The load balancing algorithm used by the Management Distributed Virtual Switches (DVS)
B. The SSH configuration settings for the vCenter Server's active node
C. The vCenter Management Network IPv4 addresses for the witness node vCenter Server
D. The details of each of the vCenter Server licenses for active, passive and witness nodes

Answer: C

Explanation:
https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.avail.doc/GUID-9B176C8A-4EEE-4A

NEW QUESTION 34
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?

A. Stateless vSphere Auto Deploy
B. Stateful vSphere Auto Deploy
C. Scripted installation
D. Interactive installation

Answer: C

NEW QUESTION 36
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