

Exam Questions 3V0-21.23

VMware vSphere 8.x Advanced Design

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NEW QUESTION 1

An architect is designing a vSphere environment for a customer and learns that the customer has:

- A single vSphere cluster
- Two storage arrays with different RAID capabilities

Which two design decisions should the architect make to maximize data availability and data performance for this customer? (Choose two.)

- A. Use Storage DRS.
- B. Use VMDK anti-affinity rules.
- C. Use multiple datastores for heartbeat.
- D. Use a minimum of three storage arrays.
- E. Use VM to host DRS rules.

Answer: AC

NEW QUESTION 2

A customer requests a review of its current vSphere platform design.

The following information is noted:

- There are three different workload profiles for the virtual machines:
- Tier-1 virtual machines operate resource-intensive applications and require dedicated allocations for CPU and RAM.
- Tier-2 virtual machines operate internet-facing applications and require access to externally facing networks.
- Tier-3 virtual machines operate platform management tools such as vCenter Server and have different lifecycle management requirements.
- Tier-1, Tier-2 and Tier-3 virtual machines are all hosted on a single large vSphere cluster.
- The Chief Information Security Officer (CISO) has raised concerns that hosting externally facing applications alongside management tools does not meet internal compliance standards.
- The Operations team has raised concerns about Tier-1 virtual machines negatively impacting the performance of vCenter Server.
- The Operations lead has stated that management changes have consistently been rejected by application teams.

As a result of the review, which recommendation should the architect make regarding the design of this platform?

- A. Separate Tier-1, Tier-2 and Tier-3 virtual machines using dedicated distributed virtual switches (DVS)
- B. Separate Tier-2 virtual machines onto a dedicated cluster
- C. Separate Tier-1, Tier-2 and Tier-3 virtual machines onto dedicated clusters
- D. Separate Tier-1, Tier-2 and Tier-3 virtual machines using resource pools and shares

Answer: C

NEW QUESTION 3

An organization's existing vSphere environments are configured for Enhanced Linked Mode. The DevOps team automates the creation of hardened virtual machine images for various operating systems. Their continuous integration/continuous delivery (CI/CD) pipeline runs a task at the end of a successful build, which uploads the Open Virtualization Format (OVF) image to a sandbox content library, deploys a virtual machine from the image, and then destroys these objects after quality checks are complete.

The following requirements have been noted:

- All content libraries and images must be centrally created and managed.
- All images must be capable of being updated.
- All images must be refreshed and available to subscribed libraries within 24 hours.
- All images must provide details of the image contents and versions.
- All images must be capable of being reverted to a previous version.
- All images must be capable of having the hardware and guest operating system customized during deployment.

Which three recommendations should the architect make to design a content library solution that will meet these requirements? (Choose three.)

- A. Create a local content library in the primary vSphere environment and enable publishing.
- B. Create and publish a new subscription to a new subscriber library for each target vSphere environment.
- C. Deploy the OVF images to vSphere and clone as an OVF template to a local content library.
- D. Deploy the OVF images to vSphere and clone as a VM template to a local content library.
- E. Edit the Auto Sync Refresh Interval advanced setting for each subscribed library.
- F. Add a new subscriber library from each vSphere environment.

Answer: ACF

NEW QUESTION 4

A customer is deploying a new cluster and wants to be able to patch and update two hosts in parallel. The cluster must be able to maintain N+1 resiliency across the remaining hosts while patching activities are performed. The current expected utilization of the platform requires a minimum of two hosts to support all of the virtual machines.

What is the minimum number of hosts the customer will require in the cluster in order to meet the required resiliency level?

- A. Five
- B. Six
- C. Four
- D. Seven

Answer: A

NEW QUESTION 5

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?

- 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

NEW QUESTION 6

An architect is designing a new vSphere environment to meet the following requirements:

- The environment must support 5,000 virtual machines.
- The environment will be built initially using 350 hosts.

Which vCenter Server appliance deployment size should the architect specify for the design?

- A. Large
- B. Small
- C. Tiny
- D. Medium

Answer: A

Explanation:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vcenter.install.doc/GUID-077C7523-E0EA-492>

NEW QUESTION 7

An architect is designing a new vSphere platform to meet a list of requirements from the security team. Which two requirements would be classified as non-functional requirements? (Choose two.)

- A. Migration of virtual machines between hosts must be encrypted
- B. Log information must be verbose to support incident resolution
- C. Critical events generated within the platform must be logged to an external Syslog service
- D. Data integrity must be ensured
- E. A common content library must be maintained across all data centers

Answer: CD

NEW QUESTION 8

Which design decision must be included in a design to allow for the deployment of a minimum supported configuration of vCenter High Availability (HA)?

- A. A new subnet will be provisioned for vCenter HA services
- B. A vSphere cluster will consist of more than three nodes
- C. The deployed vCenter Server will be Tiny
- D. The vCenter HA network will support a latency of less than 50 ms

Answer: A

Explanation:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.avail.doc/GUID-8FD87389-8CC9-429>

NEW QUESTION 9

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?

- 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

NEW QUESTION 10

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.)

- 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: DE

NEW QUESTION 10

A Cloud Service Provider wants to introduce backup as a service for a customer's vSphere-based virtual machines. The following information is noted:

- All top-of-rack (ToR) switches are 10 GbE and fully populated
- The backup traffic must not impact existing services

Which two recommendations should the architect make to help the customer incorporate the service? (Choose two.)

- A. Enable and tag traffic on the backup distributed port group
- B. Add a new two-port 10 GbE NIC per ESXi host
- C. Replace the existing NIC with a two-port 25 GbE NIC per ESXi host
- D. Match the Class of Service (CoS) and Differentiated Services Code Point (DSCP) values to the physical network
- E. Create a new virtual switch using the 1 GbE uplinks

Answer: AB

NEW QUESTION 11

What is a benefit of using a scale-out method for handling vSphere cluster growth?

- A. An increase in the recovery time objective (RTO) for the cluster
- B. Faster to reach the limit of virtual machines per host
- C. An overall reduction in the license costs for the cluster
- D. Less potential impact to virtual machines during a single host failure

Answer: B

NEW QUESTION 15

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 16

An architect is finalizing the design for a new vSphere platform based on the following information:

- All Windows virtual machines will be hosted on a dedicated cluster for licensing purposes.

- All Linux virtual machines will be hosted on a dedicated cluster for licensing purposes. All management virtual machines will be hosted on a dedicated cluster.
- A total of ten physical sites will be used to host virtual machines.
- In the event of one physical datacenter becoming unavailable, the manageability of the virtual infrastructure in the remaining data centers should not be impacted.
- Access to configure the management virtual machines via vCenter Server must be controlled through the management Active Directory domain.
- Access to configure the Windows and Linux virtual machines must be controlled through the resource Active Directory domain.
- The management and resource Active Directory domains are part of separate Active Directory forests and do not have any trusts between them.
- The design will use Active Directory with Integrated Windows Authentication.

How should the architect document the vCenter Server configuration for this design?

- A. Deploy a vCenter server for the management cluster. Deploy a vCenter Server for all remaining cluster
- B. Create a shared SSO domain for each physical site.
- C. Deploy a vCenter Server for the management cluster. Deploy a vCenter Server for all remaining cluster
- D. Create a shared SSO domain across all physical sites.
- E. Deploy a vCenter Server for the management cluster with a dedicated SSO domain. Deploy a vCenter Server for all remaining clusters and use a dedicated SSO domain for each physical site.
- F. Deploy a vCenter Server for the management cluster with a dedicated SSO domain. Deploy a vCenter Server for all remaining clusters and use a dedicated SSO domain into a single physical site.

Answer: B

NEW QUESTION 18

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

- Each host has 2 × 10 GbE NIC
- EtherChannel is not currently configured
- No changes can be made to the physical network
- Network throughput must be prioritized for defined critical services

Which two recommendations should the architect make with regard to virtual networking? (Choose two.)

- A. Use Route Based on Physical NIC Load.
- B. Use Network I/O Control with Shares.
- C. Use Network I/O Control with Reservation.
- D. Use Link Aggregation Control Protocol (LACP).
- E. Use Network I/O Control with Limits.

Answer: AD

NEW QUESTION 19

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 24

An architect is designing a solution based on the following information:

- Each ESXi host has a single physical NIC with two 10 Gbps ports.
- There is a performance-based service-level agreement (SLA) that guarantees 15 Gbps bandwidth for production virtual machines at all times.
- There is no budget to purchase additional hardware.
- The hardware replacement SLA is based on a delivery agreement of two business days.

Which recommendation for the configuration of vSphere High Availability (HA) should the architect include in the design?

- A. Configure vSphere HAConfigure % based admission control Configure two isolation addresses Consider an OEM with NIC failure conditions in their Proactive HA plugin
- B. Configure vSphere HASet das.IgnoreRedundantNetWarning to trueConsider an OEM with NIC failure conditions in their Proactive HA plugin
- C. Configure vSphere HAConfigure two existing data stores for heartbeatConsider an OEM with NIC failure conditions in their Proactive HA plugin
- D. Configure Proactive HA Automation Level: Automated Remediation: Maintenance mode for all failuresConsider an OEM with NIC failure conditions in their Proactive HA plugin

Answer: A

NEW QUESTION 26

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 30

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 32

An architect is preparing a design for a customer. Based on requirements, the architect recommends an HCI- based infrastructure with all-flash architecture. During the assessment, it is confirmed that the network throughput generated by virtual machines does not exceed 150 Mb/s. What is the minimum number and type of network adapters in each server that the architect can recommend to ensure requirements are met and there is no single point of failure?

- A. Two 1 GbE network adapters per server
- B. Four 1 GbE network adapters per server
- C. Four 10 GbE network adapters per server
- D. Two 10 GbE network adapters per server

Answer: C

NEW QUESTION 35

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.)

- 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: BE

NEW QUESTION 40

An organization's data scientists are executing a plan to use machine learning (ML). They must have access to graphical processing unit (GPU) capabilities to execute their computational models when needed. The solutions architect needs to design a solution to ensure that GPUs can be shared by multiple virtual machines. Which two solutions should the architect recommend to meet these requirements? (Choose two.)

- A. NVIDIA vGPU
- B. AMD MxGPU
- C. vSphere DirectPath I/O
- D. vSGA
- E. vSphere Bitfusion

Answer: AE

Explanation:

<https://blogs.vmware.com/apps/2018/07/using-gpus-with-virtual-machines-on-vsphere-part-1-overview.html>

NEW QUESTION 41

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?

- A. Use Network I/O Control to define a reservation for vMotion traffic.
- B. Implement Multi-NIC vMotion by adding additional vMotion VMkernel.
- C. Configure a dedicated TCP/IP stack for vMotion traffic.
- D. Combine vMotion and Management traffic to make use of four adapters.

Answer: A

NEW QUESTION 45

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.ignoreinsufficienthbdastore to true

Answer: BC

NEW QUESTION 46

As part of a new hybrid cloud initiative for a large financial company, the customer technical team is presenting an overview of the current state of the infrastructure and their vision for a new solution.

The project team captures notes during the presentation and adds them to the discovery documentation. Which of the listed statements is a design constraint?

- A. The applications are created in-house with in-guest recovery protection
- B. The maximum tolerable data loss is 10 minutes
- C. The two data center locations have a network latency of 8 ms round-trip time (RTT)
- D. The existing storage is out of maintenance

Answer: D

NEW QUESTION 50

A new real-time financial service application is being developed by the engineering team at a financial firm and will be released as a public Software-as-a-Service (SaaS) offering. The solutions architect has designed and deployed a new vSphere environment and the supporting network infrastructure for hosting all public services. ESXi hosts are configured to use Precision Time Protocol (PTP) and a local stratum-1 network time server.

Application provisioning and scaling will be managed by VMware vRealize Automation and can be run on Microsoft Windows or multiple distributions of Linux. Which three recommendations should the architect include in the design to ensure that the service maintain timekeeping within an accuracy of one second? (Choose three.)

- A. Use Microsoft Windows Server as the guest operating system.
- B. Configure the chrony time-sync agent on each virtual machine guest operating system.
- C. Set the virtual hardware device to use Host System Time (NTP) for each virtual machine running the application.
- D. Add a precision clock virtual device to each virtual machine running the application.
- E. Use a Linux distribution as the guest operating system.
- F. Add a virtual watchdog timer (VWDT) device to each virtual machine running the application.

Answer: ABC

NEW QUESTION 51

During a requirements gathering workshop, the customer provides the following requirement (REQ) and constraints (CON):

- > REQ01: The customer is looking for a way to limit database virtual machine (VM) placement to save on CPU licensing costs.
- > CON01: There is a single cluster with no budget to scale.
- > CON02: All virtual machines must run on the consolidated cluster.

Which two design decisions should the architect make to meet the customer requirement? (Choose two.)

- A. The solution must use VM-VM anti-affinity rules
- B. The solution must use vSphere DRS in manual mode
- C. The solution must use a vRealize Orchestrator workflow for VM placement
- D. The solution must use VM-Host affinity rules
- E. The solution must use vSphere VM and host DRS groups

Answer: DE

NEW QUESTION 55

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.
- > 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?

- 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: B

NEW QUESTION 57

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 59

Which two of the listed requirements would be classified as performance non-functional requirements? (Choose two.)

- A. The vSphere platform must be able to provide a recovery time objective of 30 minutes
- B. The vSphere platform must be able to provide a minimum throughput of 400 MB/s
- C. The vSphere platform must be able to provide N+1 redundancy
- D. The vSphere platform must be able to provide a maximum read latency of 15 ms
- E. The vSphere platform must be able to provide a service-level agreement (SLA) of 99,9%

Answer: BD

NEW QUESTION 60

A customer requires the use of data encryption to ensure data is not accessible when a drive is removed from the primary storage platform. However, there is also a requirement to use deduplication and compression against all workloads in order to conserve space. Which solution meets the customer requirements?

- A. Data-in-transit encryption
- B. OS-level encryption
- C. Encrypted backups
- D. Array-based encryption

Answer: D

NEW QUESTION 63

An architect is tasked with designing a new VMware software-defined data center (SDDC) using VMware vSAN. The architect uses a storage assessment tool to determine the storage requirements for the new vSAN cluster. The new SDDC is going to be deployed into the existing data center and must be connected to a shared core network switch.

The architect decides to use vSAN ReadyNodes with the following configuration:

- > Two disk groups with:
- > Write Intensive NVMe 800 GB drive for cache
- > Four 3.84 TB Mixed Use NVMe for capacity
- > Four 10 GbE ports

Which element represents a risk that should be included in this design?

- A. The number of 10 GbE capable ports in the vSAN ReadyNode
- B. The use of vSAN ReadyNodes
- C. The existing network is 10 GbE capable
- D. The use of NVMe drives for cache and capacity

Answer: C

NEW QUESTION 65

Which two statements are true about gathering functional business and application requirements? (Choose two.)

- A. It focuses on functional requirements with C-level stakeholders
- B. It leverages a single set of QUESTION NO:s for all stakeholders
- C. It might require multiple rounds of stakeholder interviews
- D. It builds stakeholder consensus
- E. It is a non-iterative process

Answer: AC

NEW QUESTION 70

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