

# VMware

## Exam Questions 3V0-21.23

VMware vSphere 8.x Advanced Design



#### 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

An architect is reviewing a physical storage design. The customer has specified that storage DRS will be used for ease of operational management for capacity and performance.

Which recommendation should the architect include in the design?

- A. Create smaller datastores to balance space with Storage DRS
- B. Use a larger number of storage profiles (varied disk speeds and RAID levels) to improve performance
- C. Create larger datastores to balance space with Storage DRS
- D. Create more datastores within each Storage DRS cluster to balance space and performance

**Answer:** D

#### NEW QUESTION 3

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 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 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 6

An architect makes the design decision to install ESXi on embedded and resilient 8 GB SD cards. What is the impact of this design decision?

- A. Host profiles must be used for this kind of installation
- B. Scratch partition would need to be created on the external storage
- C. The size of the SD cards is too small and the installation will fail
- D. The vSphere Auto Deploy feature must be enabled on vCenter Server

**Answer:** B

**Explanation:**

<https://kb.vmware.com/s/article/2074026> You can store coredumps on the SD boot media, but refrain from configuring the scratch partition here as the logs are write intensive and can cause the SD card to fail faster resulting in re-installation of ESXi

**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**

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 9**

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 10**

An architect is designing an environment for a retail customer. The design will use a single small vCenter Server Appliance and a cluster of eight ESXi hosts at a remote site. There is a single 10 GbE connected network at the remote site to support all management services. It is not possible to create additional management networks at the remote site. Virtual machine backups at the site will be dependent on the vCenter Server being available.

Which design decision should the architect make to maximize availability for backups?

- A. vCenter Server High Availability will be configured.
- B. The vCenter Server Appliance will be protected with vSphere Fault Tolerance.
- C. The cluster will be configured to use vSphere DRS in fully automated mode.
- D. The cluster will be configured with vSphere HA and set to restart virtual machines based on guest operating system heartbeat monitoring.

**Answer:** C

**NEW QUESTION 10**

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?

- 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

#### NEW QUESTION 12

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?

- 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: D**

#### NEW QUESTION 15

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 18

An architect is designing a VMware solution for a customer to meet the following requirements:

- > The solution must use investments in existing storage array that supports both block and file storage.
- > The solution must support the ability to migrate workloads between hosts within a cluster.
- > The solution must support resource management priorities.
- > The solution must support the ability to connect virtual machines directly to LUNs.
- > The solution should use existing 32G fabric infrastructure.
- > There is no budget for additional physical hardware.

Which design decision should the architect make to meet these requirements?

- A. The ESXi hosts will leverage Fibre Channel (FC).
- B. The ESXi hosts will leverage iSCSI.
- C. The ESXi hosts will leverage Fibre Channel over Ethernet (FCoE).
- D. The ESXi hosts will leverage NFS.

**Answer: A**

#### NEW QUESTION 23

An architect is designing a solution for an environment with two types of resource profiles that must be virtualized. The first type consists of Tier 1 virtual machines that are disk I/O intensive, but do NOT require high CPU or memory. The second type consists of Tier 2 virtual machines that require a lower CPU and memory allocation and have minimal disk I/O.

Which design recommendation should the architect make for distributing the resource profiles?

- A. Separate the two resource profiles into two cluster
- B. The Tier 1 cluster will have fast storage while the Tier 2 cluster will not.
- C. Run both resource profiles on the same cluster with the same host hardware platform.
- D. Separate the two resource profiles into two cluster
- E. The Tier 2 cluster will have faster CPU and more memory while the Tier 1 cluster will have slower CPU and less memory but more disk space.
- F. Run both resource profiles on the same cluster with host hardware that has fast CPU, large amounts of memory, and the fastest storage platform.

**Answer: D**

#### NEW QUESTION 25

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 29

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?

- 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: A**

#### NEW QUESTION 33

The architect for a large enterprise is tasked with reviewing a proposed design created by a service partner. Which design elements are expected to be detailed within the physical design section of the documentation?

- A. A design diagram illustrating the configuration and specific attributes, such as IP addresses
- B. A list of requirements, constraints, and risks
- C. A solution architecture diagram with the components and data flow
- D. An entity relationship diagram describing upstream and downstream dependencies for specific service components

**Answer: B**

#### NEW QUESTION 36

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 40

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 VMkernels.
- 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 44

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 48

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?

- 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:** A

#### NEW QUESTION 52

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

- A. ESXi clusters must scale when compute resources are sustained above 70% for five business days
- B. vSphere Fault Tolerance must be supported to improve application uptime
- C. ESXi host updates must be installed within one week of release
- D. The vSphere environment must support administrator password rotation
- E. ESXi clusters must scale to 500 concurrent virtual machines

**Answer:** AC

#### NEW QUESTION 57

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 61

A new vSphere platform is being created. The platform will host virtual machines that will run management services and line-of-business applications.  
What should the architect consider when designing the number and type of clusters required?

- A. Maximum tolerable downtime
- B. Predicted platform growth
- C. Auditing requirements for the virtual machines
- D. The level of isolation required between virtual machine classifications

**Answer:** D

#### NEW QUESTION 63

An architect is designing a new vSphere environment with the following resources:

- 600 vCPU
- 5,760 GB RAM

Average resource usage is:

- 60 vCPU
- 1,152 GB RAM

The design must meet the following requirements:

- The environment has the ability to burst by 25%.
- Each host can schedule 36 vCPUs and has 512 GB RAM.
- Management overhead is 20%.

What is the minimum number of hosts required to meet the design requirements?

- A. Three
- B. Five
- C. Four
- D. Two

**Answer:** D

#### NEW QUESTION 68

A VMware Service Provider is tasked with delivering a solution for continuous availability for a subset of Tier 1 virtual machines (VMs) and vApps running in their vSAN environment. The VMs make up a mission-critical application and there can be no data loss in the event of an outage at their primary data center. In the event of a regional outage, they have established a 10-minute recovery point objective (RPO). Failover/failback to the third site must be automated.

They have the following in place:

- Two local data centers (primary and secondary) connected with 100 Gb dedicated fiber
- 2ms round-trip time (RTT) latency between the sites A third data center located on another power grid
- 70ms latency between the primary and secondary data centers
- Matching storage arrays at all locations

Which two solutions could be used to meet the requirements? (Choose two.)

- A. Site Recovery Manager
- B. Snapshots
- C. vSAN Metro Cluster
- D. vSphere Data Protection
- E. vStorage APIs for Array Integration (VAAI)

**Answer:** BC

#### NEW QUESTION 73

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