3V0-21.21 Dumps

Advanced Design VMware vSphere 7.x

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NEW QUESTION 1
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 (OV) 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 2
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 3
Following a company merger, there are two data centers running vSphere environments. Both data centers are leveraging separate Layer 3 vMotion networks.
Which requirement must be met in order to enable vMotion migration between these locations?

A. The vMotion service must be configured on the Management VMkernel adapter
B. A dedicated TCP/IP stack for vMotion with a dedicated gateway must be configured
C. A stretched vMotion network must be configured between data centers
D. Virtual machines must be powered off in order to migrate them between data centers

Answer: B

NEW QUESTION 4
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 5
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 6
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.)

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: BE

NEW QUESTION 7
An architect is designing storage for a new vSphere environment to meet the following requirements: ⟩ Asynchronous replication is required between two sites.

⟩ The impact on the storage layer should not impact the performance of the compute layer.

⟩ Each application tier will require different replication attributes.

⟩ Virtual machine live migration across compute and storage must be supported.

⟩ Virtual machine aware back up will be leveraged.

⟩ Operational management overhead should be minimized.

⟩ Operational automation should be supported.
Which storage design recommendations would meet the requirements?

A. Two new Fibre Channel storage arrays will be deployed, one at either site.Each application tier will be initially provisioned a new LU
B. Data replication will be offloaded to the new arrays.
C. Two new vSphere clusters enabled with vSAN will be deployed, one at either sit
D. vSAN will be used to provide policy-based management for each application tier.vSphere Replication will be used to replicate the virtual machine data in an asynchronous configuration.
E. Two new ISCSI storage arrays will be deployed, one at either site.Each application tier will be initially provisioned a new LU
F. Data replication will be offloaded to the new arrays.
G. Two new storage arrays will be deployed, one at either site.vSphere Volumes (vVOLs) will be used to provide policy-based management for each application tie
H. Data replication will be offloaded to the new arrays.

Answer: B

NEW QUESTION 8
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 9
During a requirements gathering workshop, the customer provides the following requirement that is pertinent to the design of a new vSphere environment:

> The Maximum Tolerable Downtime (MTD) for all Tier 1 applications is one hour. Which requirement classification is being gathered for the design documentation?

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

Answer: C

NEW QUESTION 10
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 10
A customer provides the following list of requirements for their vSphere platform:

> REQ01 The solution should utilize dual network connections to eliminate single points of failure.

> REQ02 The solution should allow logs to be retained for a period of 30 days.

> REQ03 All user access to the platform should be recorded for audit purposes.

> REQ04 The solution should allow the management of multiple ESXi hosts.

> REQ05 The solution should allow users to view the remote console of virtual machines.
Which two of the listed requirements would be classified as non-functional requirements? (Choose two.)

A. The solution should utilize dual network connections to eliminate single points of failure
B. The solution should allow the management of multiple ESXi hosts
C. The solution should allow users to view the remote console of virtual machines
D. All user access to the platform should be recorded for audit purposes
E. The solution should allow logs to be retained for a period of 30 days

Answer: AE

NEW QUESTION 13
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 17
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
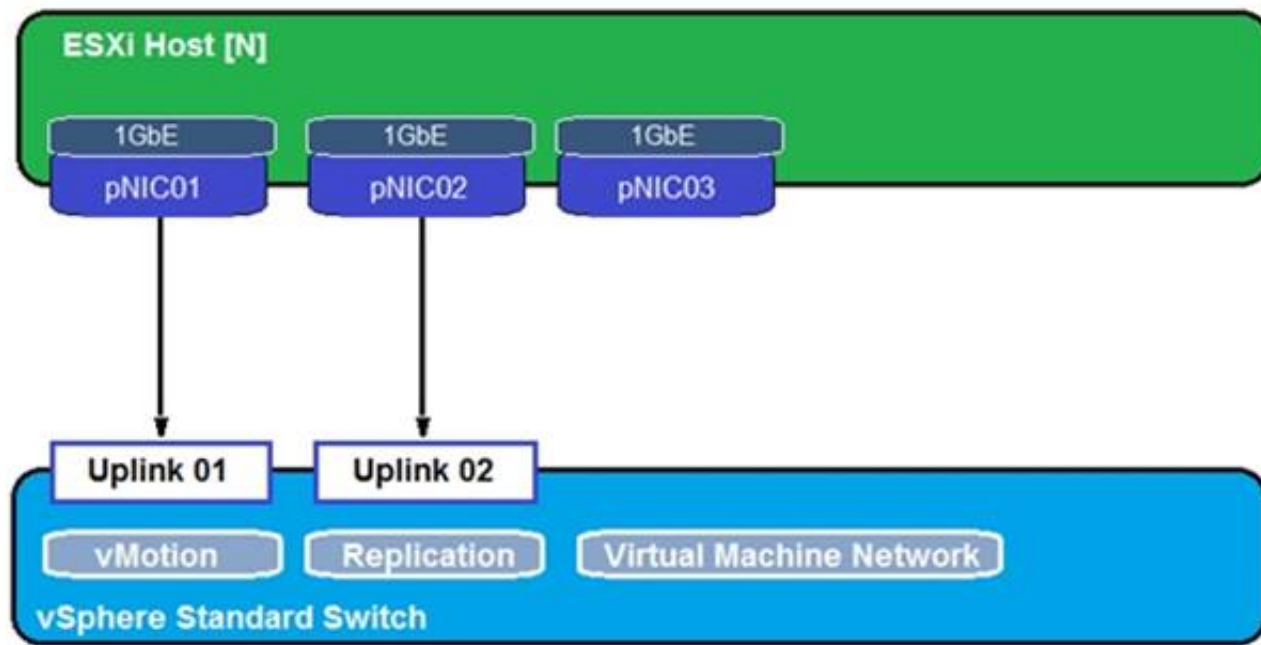
NEW QUESTION 22
A new real-time financial service application is being developed by the engineering team at a financial firm and will be released as a public Software-as-a-Service (SaaS) offering. The solutions architect has designed and deployed a new vSphere environment and the supporting network infrastructure 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 24
Refer to the exhibit.

During a requirements gathering workshop, the customer shares the following about their existing ESXi host virtual networking infrastructure:
The customer confirms that:

≫ Each ESXi host has approximately 200 virtual machines.

≫ They want to maximize the number of concurrent virtual machine migrations.

≫ When placing a host in maintenance mode, it takes a long time to evacuate the virtual machines. Which two recommendations should the architect make in order to help the customer overcome their
challenge? (Choose two.)

A. Configure the network to use MTU for the VMotion VMKernel to 1,600 bytes
B. Configure the network to use MTU for the VMotion VMKernel to 9,000 bytes
C. Create an additional standard switch with pNIC3 to use for vMotion
D. Use the 3 pNICs and bundle them in a link aggregation group (LAG) configuration
E. Use 10 GbE NICs instead of 1 GbE

Answer: CE

NEW QUESTION 28
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 29
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 31
As part of a requirements gathering workshop, the customer provides the following requirements for the design of a new greenfield virtual infrastructure:

≫ Some applications have a latency that must be less than 5 minutes.

≫ The solution must be able to support a workload growth rate of 10% per year. Which requirement classification is being gathered for the design
documentation?

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

Answer: A

NEW QUESTION 34
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