Exam Questions 3V0-21.21

Advanced Design VMware vSphere 7.x

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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
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 3
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 4
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 5
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 6
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 7
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 8
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 9

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.
En Twohitew ISCSigtonagetoragesfoillabnewleySphst.conevaroeithenstoereddtheplbationgtiecquilebeinitsally 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 10
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 10
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 14
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 17
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 19
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 20
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 23

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 26
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 30
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 34
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 36
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 40
An architect is designing a series of new vSphere environments for an organization. The environments will be deployed in their US-East and US-West region data centers. Each data center may have one or more dedicated vSphere environments. Only the vSphere environments within a data center will be configured with Enhanced Linked Mode. The Chief Technology Officer (CTO) has authorized the use of VMware vRealize Automation Cloud for automation. The build team creates standardized virtual machine images for various operating systems in Open Virtualization Format (OVF) and publishes the latest version on an as-needed basis to an internal HTTPS-accessible repository.
The architect must design a content library topology that meets the following requirements:
A localized content library must be available in each data center.
Each content library must be updated when an image is updated and released by the build team.
It must leverage the existing build team processes.
What should the architect recommend to meet the requirements?

A. Work with the build team to create a local content library for each vSphere environment.Import the OVF images when new image are published to the repository.
B. Create a local content library for the primary vSphere environment in each data center.Create a subscribed content library for each additional vSphere environment in each data cente
C. Configure the content library to download content automatically.
D. Work with the build team to automate a JSON-based manifest to the repository when changes occur in the repository.Create a subscribed content library for each vSphere environmen
E. Configure the content library to download content when needed.
F. Work with the build team to automate a JSON-based manifest to the repository when changes occur in the repository.Create a subscribed content library for each vSphere environmen
G. Configure the content library todownload content automatically.

Answer: B

NEW QUESTION 41
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 46
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 51
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 56
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 59
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