3V0-21.21 Dumps

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 architect is designing a VMware solution for a customer based on the following information:
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 IPv4 based network infrastructure.
 There is no budget for additional physical hardware.
Which two design decisions could the architect make to meet these requirements? (Choose two.)

A. The ESXi hosts will leverage Fibre Channel (FC)
B. The ESXi hosts will leverage NFS 3
C. The ESXi hosts will leverage Fibre Channel over Ethernet (FCoE)
D. The ESXi hosts will leverage iSCSI
E. The ESXi hosts will leverage NFS 4.1

Answer: BD

Explanation:
https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.storage.doc/GUID-8A929FE4-1207-4C Starting from vSphere 7.0, VMware no longer supports software FCoE in production environments.
https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.storage.doc/GUID-6B49866F-7005-40

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 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 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 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
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 8
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 9
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
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 10
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 14
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 17
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 18
An architect is designing a VMware software-defined data center (SDDC) solution based on the following customer requirements:

 The solution must initially support 1,000 virtual machines
 The solution must scale to support the concurrent running of up to 5,000 virtual machines
 The production environment should be delivered across two data centers
 The solution should have a maximum tolerable downtime (MTD) of four hours
 The solution should have a monthly service availability target of 99.8%
Which two assumptions could the architect make based on the information from the customer to help size the solution? (Choose two.)

A. The number of vSphere hosts in a cluster
B. The average resource utilization of a virtual machine
C. The size (CPU/RAM/storage) of the average virtual machine
D. The guest operating system for each virtual machine
E. The size (CPU/RAM/storage) of the vSphere hosts

Answer: AE

NEW QUESTION 22
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 24
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 29
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 32
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