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Exam overview

Exam: 3V0-21.21

Exam Name: Advanced Design VMware vSphere 7.x

Associated Certification: [VCAP-DCV Design 2022](#)
This certification is related to Advanced Design VMware vSphere 7.x.

Duration: 150 Minutes

Number of Questions: 60

Exam format: Single and Multiple Choice, Proctored

https://www.vmware.com/learning/certification/vcap-dcv-design-7x-exam.html

QUESTION NO: 1

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: A,D
Reference: https://technicloud.com/category/vmware/

QUESTION NO: 2

An architect will be taking over control of a former Linux server fleet and repurposing the hardware into a new vSphere cluster. The current environment is already connected to the network but the hosts do not have any local disks. Since the fleet hardware is uniform, the architect can use a single ESXi image. All hosts within the cluster have the same CPU and memory capacity.

Which ESXi deployment method should the architect use?

A.
Stateless cached vSphere Auto Deploy

B.
Stateless vSphere Auto Deploy

C.
Manual install of each ESXi host with an image from USB

D.

Stateful vSphere Auto Deploy

Answer: A
Reference: https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.esxi.install.doc/GUID-0813B4BE-485D-4129-902B-49AA42EBF54E.html

QUESTION NO: 3

An architect is finalizing the design for a new vCenter Server High Availability deployment.

What is one thing the architect must document in the design?

A.
The load balancing algorithm used by the Management Distributed Virtual Switches (DVS)

B.
The SSH configuration settings for the vCenter Server's active node

C.
The vCenter Management Network IPv4 addresses for the witness node vCenter Server

D.
The details of each of the vCenter Server licenses for active, passive and witness nodes

Answer: A
Explanation:

QUESTION NO: 4

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 should not be used

Virtual machines should be automatically restarted in the event of host failure regardless of available resources

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: B,E
Explanation:

QUESTION NO: 5

An architect is designing a new VMware solution for a customer that has a number of different resource profiles.

The following are the business requirements for the design:

  The solution must support virtual machines with the following storage profiles:

  Write-intensive

  Backup

  Write-Once-Read-Many (WORM) archive

  The solution must support migration of virtual machine disks between storage profiles.

  The WORM archive data must be located at an isolated secure site.

  The backup storage array must only be connected to a backup media server.

  All data should be recoverable from backup.

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

A.
The solution will leverage a single storage array for the WORM archive and write-intensive storage profiles

B.
The solution will leverage the same array for the backup and write-intensive storage profiles

C.
The solution will leverage a different array for each storage profile

D.
The solution will leverage a single storage array for all storage profiles

Answer: C
Explanation:

QUESTION NO: 6

An architect is preparing a design for a company planning digital transformation. During the requirements gathering workshop, the following requirements (REQ) and constraints (CON) are identified:

REQ01 The platform must host different types of workloads including applications that must be compliant with internal security standard.

REQ02 The infrastructure must initially run 100 virtual machines.

REQ03 Ten of the virtual machines must be compliant with internal security standard.

REQ04 The internal security standard specifies logical network separation for in-scope applications.

CON01 The customer has already purchased the licenses as part of another project.

CON02 The customer has five physical servers that must be reused.

Additionally, based on resource requirements, four physical servers will be enough to run all workloads.

Which recommendation should the architect make to meet requirements while minimizing project costs?

A.

Use Network I/O Control to ensure the internal security zone has higher share value

B.

Purchase additional servers and plan separate, isolated clusters for workloads that must be compliant with internal security

C.

Use a single cluster and ensure that different security zones are separated at least with dedicated VLANs and firewall

D.

Use a single cluster and configure DRS anti-affinity rules to ensure internal security compliant virtual machines cannot migrate between ESXi hosts.

Answer: D
Explanation:

QUESTION NO: 7

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: A
Explanation:

QUESTION NO: 8

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: C,E
Explanation:

QUESTION NO: 9

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: A

Reference: https://docs.vmware.com/en/VMware-vSphere/7.0/vsphere-esxi-70-installation-setup-guide.pdf

QUESTION NO: 10

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

The environment must support 800 virtual machines.

The environment will be built initially using 200 hosts.

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

A.
Large

B.
Small

C.
X-Large

D.
Medium

Answer: D
Explanation: