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**Advanced Design VMware vSphere 7.x**

**VMware 3V0-21.21**

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## QUESTION NO: 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 (OVF) 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:

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: A B D**

## QUESTION NO: 2

An architect is finalizing the design for a new vSphere platform based on the following information:

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 clusters. Create a shared SSO domain for each physical site.
- B. Deploy a vCenter Server for the management cluster.  
Deploy a vCenter Server for all remaining clusters.  
Create a shared SSO domain across all physical sites.
- C. 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.
- D. 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: C**

## QUESTION NO: 3

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:

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: B**

## QUESTION NO: 4

An architect is designing a VMware software-defined data center (SDDC) solution based on the following customer requirements:

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: A E**

## QUESTION NO: 5

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: B**

## QUESTION NO: 6

- C. It might require multiple rounds of stakeholder interviews
- D. It builds stakeholder consensus
- E. It is a non-iterative process

**Answer: CD**

You interview stakeholders and conduct workshops to gather requirements and build consensus. Gathering requirements is an iterative process, which might require multiple rounds of interviews. Asking the right questions is vital, and you must gather both functional and nonfunctional requirements. A good strategy for a successful project is to bring the correct people together and build consensus.

- A. It might require multiple rounds of stakeholder interviews
- B. It builds stakeholder consensus
- C. It is a non-iterative process

**ANSWER: A B**

## QUESTION NO: 7

As part of a requirements gathering workshop, the customer provides the following requirements for the design of a new greenfield virtual infrastructure:

Which requirement classification is being gathered for the design documentation?

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

**ANSWER: A**

## QUESTION NO: 8

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: A B**

## QUESTION NO: 9

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**

## QUESTION NO: 10

An architect is tasked with planning the design of a new vSphere environment. When commissioned, this environment will be used to migrate an existing set of virtual machines.

An inventory of the existing infrastructure, including configured vCPU, RAM and storage sizes has been provided.

In order for each virtual machine to be migrated, which two data sources with peak and average utilization data are required for sizing? (Choose two.)

- A. %Ready
- B. Disk Write latency
- C. CPU
- D. Ballooned memory
- E. IOPS

**ANSWER: C E**