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Introduction:

Embarking on the journey toward VMware [3V0-21.21](#) certification?

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Question: 1

A customer has six hosts available in a cluster. When running at full capacity, all virtual machines can be run on two hosts. How many hosts can the customer place into maintenance mode at the same time while still providing N+2 resiliency to the cluster?

- A. Two
- B. Three
- C. One
- D. None

Answer: A

Question: 2

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.

The cloud automation platform must be able to consume the latest approved content library images.

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.
- B. Create a local content library for the primary vSphere environment in each data center.

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VMware 3V0-21.23 考試大綱：

主題	簡介
主題 1	<ul style="list-style-type: none">VMware Products and Solutions: Targeting VMware Engineers, this section describes VMware Cloud Foundation architecture, its components like vSphere and NSX, benefits such as automation and scalability, and use cases like hybrid cloud environments. It assesses understanding of VMware Validated Solutions.
主題 2	<ul style="list-style-type: none">Plan and Design the VMware Solution: This part targets Solution Designers, evaluating their ability to gather business objectives, create conceptual models based on these objectives, develop logical designs, and translate them into physical designs that meet specific requirements like manageability or security.

主題 3

- IT Architectures, Technologies, Standards: This section of the exam measures the skills of IT Architects and covers differentiating between business and technical requirements, as well as conceptual, logical, and physical design. A key skill measured is "Designing System Availability."

>> 3V0-21.23考試大綱 <<

最新的3V0-21.23考試大綱 & 安全的3V0-21.23考試：VMware vSphere 8.x Advanced Design

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最新的 VCAP-DCV Design 3V0-21.23 免費考試真題 (Q80-Q85):

問題 #80

An architect is designing a new vSphere architecture and notes the following information during the design workshops: vSphere distributed switches (VDS) will be used for all vSphere clusters. Switch naming will be based on cluster name, resource type function and switch number.

Port group naming will be based on function, role and VLAN number range.

Each host has two physical network cards each with two NIC ports:

- Card A aligns to vmnic0 and vmnic1
- Card B aligns to vmnic2 and vmnic3

The architecture must provide resilient network connections.

Management Services will use VLAN ID 43.

Virtual machines access VLAN ID 100.

The vSphere infrastructure will use a hyper-converged storage architecture.

How should the architect document the VDS physical design based on the noted information?

- A. vSwitch Prod_DVS_01 will have 2 uplinksPort group name "pg_mgmt_43"- uplink = vmnic0- teaming policy = active/passivePort group name "pg_VM_100"- uplink = vmnic1- teaming policy = active/passive
- B. vSwitch Prod_DVS_01 will have 4 uplinks Port group name "pg_mgmt_43"- uplink = vmnic0, vmnic1- teaming policy = active/passivePort group name "pg_VM_100"- uplink = vmnic2, vmnic3- teaming policy = active/passive
- C. vSwitch Prod_DVS_01 will have 4 uplinksPort group name "pg_mgmt_43"- uplink = vmnic0, vmnic2- teaming policy = active/passivePort group name "pg_VM_100"- uplink = vmnic1, vmnic3- teaming policy = active/passive
- D. vSwitch Prod_DVS_01 will have 4 uplinksPort group name "pg_mgmt"- uplink = vmnic0, vmnic2- teaming policy = active/passivePort group name "pg_VM"- uplink = vmnic1, vmnic3- teaming policy = active/passive

答案： C

問題 #81

An architect is designing a VMware solution for a customer based on the following information:

- The solution must use investments in existing storage array that supports both block and file storage.
- 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 iSCSI
- B. The ESXi hosts will leverage Fibre Channel (FC)
- C. The ESXi hosts will leverage NFS 4.1
- D. The ESXi hosts will leverage Fibre Channel over Ethernet (FCoE)

- E. The ESXi hosts will leverage NFS 3

答案: A,D

問題 #82

What are two benefits of the VMware Validated Solutions? (Choose two.)

- A. Provide prescriptive runbooks to deploy VMware solutions
- B. Provide best practice design guidance
- C. Provide faster time to value for VMware Cloud Foundation
- D. Provide comprehensive manual deployment guidance and day 2 operational practices
- E. Deploy technical validated implementations on VMware Cloud Foundation

答案: B,E

解題說明:

Based on VMware vSphere 8.x Advanced documentation and VMware Validated Solutions (VVS) resources, the VMware Validated Solutions are pre-defined, tested, and proven architectures designed to simplify deployment and operation of VMware Cloud Foundation (VCF) and related technologies. The key benefits include:

* C: VVS provides best practice design guidance, offering standardized architectures and configurations that align with VMware's recommended practices to ensure optimal performance and reliability.

* E: VVS enables the deployment of technically validated implementations on VMware Cloud Foundation, ensuring that solutions are pre-tested and certified to work seamlessly within the VCF ecosystem, reducing deployment risks.

問題 #83

An architect is working on the design documentation for a new vSphere solution. The architect has completed a conceptual model based on the following requirement:

REQ001 - The solution must use shared storage

What could the architect include in the logical design to meet this requirement?

- A. The use of File Based Storage, including the list of permissions applied to the share
- B. The use of an all flash vSAN datastore
- C. The use of an HCI solution for a datastore
- D. The use of an NFS mount point, including the IP address of the NFS server it is hosted on

答案: D

解題說明:

The requirement specifies that the solution must use shared storage, which refers to a storage solution that can be accessed by multiple ESXi hosts simultaneously. NFS (Network File System) is a widely used method for providing shared storage in a vSphere environment. By including the NFS mount point and the IP address of the NFS server, the architect can specify how the shared storage will be configured and accessed by the ESXi hosts, meeting the requirement for shared storage.

問題 #84

What is a benefit of using workload domains in VMware Cloud Foundation?

- A. Workload domains allow for manual provisioning of vSphere clusters using the SDDC Manager.
- B. Workload domains are pre-configured and automatically deployed according to industry best practices for SDDC implementation.
- C. Each workload domain can only support a maximum of three ESXi hosts, making it easy to manage small workloads.
- D. Workload domains require separate instances of vCenter, decreasing complexity and management overhead.

答案: B

解題說明:

Based on VMware vSphere 8.x Advanced documentation and VMware Cloud Foundation (VCF) resources, the architect needs to identify the benefit of using workload domains in a VCF environment. Workload domains are a core construct in VCF, designed to simplify the deployment and management of Software- Defined Data Center (SDDC) components, including vSphere, vSAN, NSX,

and vCenter.

Analysis of Workload Domains in VCF:

* Workload Domains: In VCF, workload domains are logical units that group compute, storage, and networking resources to host specific workloads (e.g., production, development, or DMZ). They include a vSphere cluster, vSAN storage, NSX networking, and a dedicated vCenter instance, managed through the SDDC Manager.

* Purpose: Workload domains provide isolation, scalability, and simplified management by automating the deployment and configuration of SDDC components according to VMware's best practices.

Evaluation of Options:

* A. Workload domains require separate instances of vCenter, decreasing complexity and management overhead:

* Why incorrect: While workload domains do include a dedicated vCenter instance for each domain to ensure isolation and independent management, this increases management overhead rather than decreasing it. Each vCenter instance requires separate administration, monitoring, and patching, which adds complexity compared to a single vCenter managing multiple clusters. This is not a benefit.: VMware Cloud Foundation documentation notes that separate vCenter instances per workload domain enhance isolation but increase management tasks.

B: Workload domains allow for manual provisioning of vSphere clusters using the SDDC Manager:

Why incorrect: Workload domains are provisioned automatically through the SDDC Manager, not manually.

The SDDC Manager automates the creation, configuration, and deployment of workload domains based on predefined templates and policies, reducing manual effort. Manual provisioning contradicts VCF's automation-centric approach.

Reference: VMware Cloud Foundation documentation emphasizes automated provisioning of workload domains via SDDC Manager.

C: Workload domains are pre-configured and automatically deployed according to industry best practices for SDDC implementation:

Why correct: This is a key benefit of workload domains in VCF. Workload domains are automatically deployed by the SDDC Manager with pre-configured settings for vSphere, vSAN, NSX, and vCenter, adhering to VMware's validated best practices for SDDC implementation. This ensures consistency, reliability, and optimized performance while reducing deployment time and errors. The automation and adherence to best practices simplify the creation of isolated, scalable environments for workloads, making this the primary benefit.

Reference: VMware Cloud Foundation documentation highlights workload domains as pre-configured, automated constructs that follow VMware Validated Designs for SDDC.

D: Each workload domain can only support a maximum of three ESXi hosts, making it easy to manage small workloads:

Why incorrect: Workload domains in VCF are not limited to three ESXi hosts. They can support multiple hosts (typically 3 to 64, depending on the configuration and licensing), allowing scalability for various workload sizes. This option inaccurately describes workload domain capabilities and does not reflect a benefit, as it imposes a false limitation.

Reference: VMware Cloud Foundation documentation specifies that workload domains can scale to support large clusters, not just small workloads.

Why C is the Best Choice:

Automation and best practices: Workload domains are a hallmark of VCF's automated deployment model, using SDDC Manager to provision pre-configured vSphere clusters, vSAN storage, and NSX networking according to VMware Validated Designs. This ensures consistency, reduces manual configuration errors, and aligns with industry best practices for SDDC.

Simplified deployment: The pre-configured nature of workload domains accelerates deployment, providing a standardized, repeatable process that benefits both small and large-scale environments.

Alignment with VCF: This benefit directly supports VCF's value proposition of delivering a fully integrated, automated SDDC with minimal operational overhead for deployment.

問題 #85

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