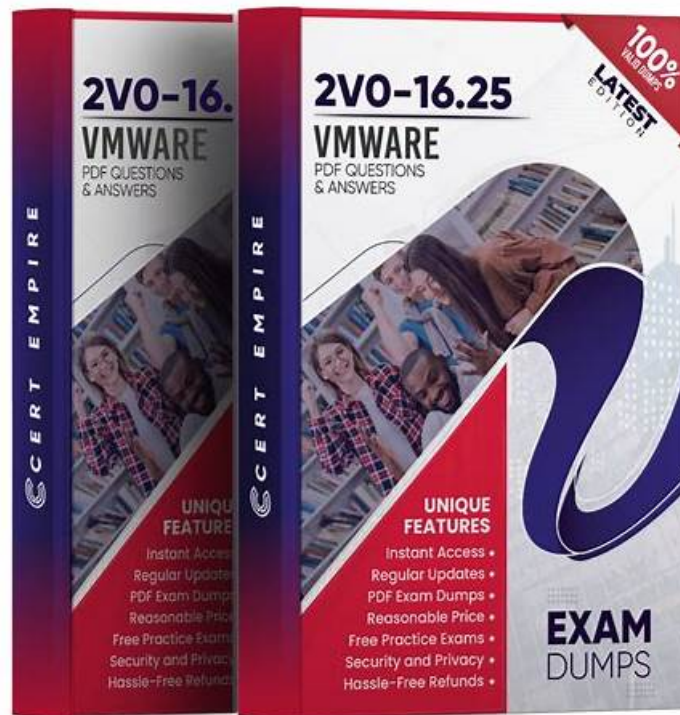


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VMware 2V0-16.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • Deploy, Configure, and Operate VMware vSphere Foundation (VVF): This section of the exam measures the expertise of Data Center Administrators and emphasizes hands-on skills in deploying and configuring VMware vSphere Foundation environments. Candidates must understand the components of a VVF deployment, configure Supervisors within clusters, and manage identity, access control, licensing, and certificate management. The objectives also extend to lifecycle management within the vSphere Foundation. Furthermore, it explores operational tasks including monitoring and analyzing logs, configuring alerting, managing dashboards, and integrating with VMware Cloud Foundation (VCF) Operations. Candidates will also be tested on cost and pricing configuration, compliance monitoring, and security hardening practices. Finally, automation skills are validated through deploying services with Supervisors, running Kubernetes workloads, using VM services, and integrating VCF Operations Orchestrator to support enterprise automation.

Topic 2	<ul style="list-style-type: none"> VMware vSphere Foundation Fundamentals: This section of the exam measures the skills of Virtualization Engineers and focuses on the essentials of virtualization technology. It introduces the principles of virtualization, explores use cases, and highlights the value it brings to businesses. Candidates are expected to demonstrate knowledge of VMware compute components such as vCenter and ESX, cluster configuration, and lifecycle management of virtual machines. It also covers secure workload operations, encryption, and managing resources with content libraries. In addition, storage fundamentals are examined through configuring vSphere storage, deploying VMware vSAN clusters, defining storage policies, and ensuring data availability. Networking fundamentals are also introduced, requiring the ability to differentiate between VMware vSphere networking components.
Topic 3	<ul style="list-style-type: none"> Plan and Design the VMware by Broadcom Solution: This section of the exam measures the ability of VMware Solution Architects to plan and design solutions. While there are no specific testable objectives included, the focus is on preparing professionals to design VMware-based solutions that align with organizational goals and best practices.
Topic 4	<ul style="list-style-type: none"> IT Architectures, Technologies, Standards: This section of the exam measures the understanding of IT Infrastructure Architects and covers foundational concepts of architectures, emerging technologies, and industry standards. Although no testable objectives are listed here, it establishes the baseline knowledge needed to interpret and design VMware-related environments effectively.
Topic 5	<ul style="list-style-type: none"> Troubleshoot and Optimize the VMware Solution: This section of the exam measures the ability of Systems Engineers to troubleshoot and optimize VMware-based environments. While no explicit testable objectives are listed, candidates are expected to apply their problem-solving skills to diagnose, resolve, and enhance VMware solutions for improved reliability and performance.

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VMware vSphere Foundation 9.0 Administrator Sample Questions (Q41-Q46):

NEW QUESTION # 41

An administrator has been tasked to create a virtual machine (VM) into a VMware vCenter Supervisor Namespace in an existing VMware vSphere Foundation (VVF) deployment.

How would the administrator create the VM?

- A. Create a YAML file and deploy using kubectl.
- B. Log in to VCF Automation Service Broker and select the "Create a VM" catalog item.
- C. Use VCF CLI to deploy the VM.
- D. Deploy using the vSphere Client.

Answer: A

Explanation:

In a VMware vSphere Foundation (VVF) deployment with vCenter Supervisor Namespaces enabled, the method for creating VMs inside a Supervisor Namespace relies on the vSphere VM Service.

* The VM Service exposes VMs as Kubernetes-native objects that are managed using kubectl.

* Administrators (or DevOps engineers with appropriate permissions) must write a VM YAML manifest file, which specifies parameters such as apiVersion, kind: VirtualMachine, spec.imageName, spec.className, spec.storageClass, and spec.networkInterfaces.

* The YAML manifest is then applied with kubectl to the Supervisor context.

This approach is documented as the supported method:

"As a DevOps engineer, provision a VM and its guest OS in a declarative manner by writing VM deployment specifications in a Kubernetes YAML file." Why the other options are incorrect:

* B. Deploy using the vSphere Client##The vSphere Client is used to configure Namespaces, permissions, and VM classes, but actual VM creation in Supervisor Namespaces is done via kubectl + YAML.

* C. Use VCF CLI to deploy the VM##VCF CLI (kubectl vsphere login) is used only to authenticate and obtain context, not to create VMs.

* D. Log in to VCF Automation Service Broker##This is used for vRealize Automation/Aria Automation integration, not for direct Supervisor Namespace VM creation.

References:

VMware Cloud Foundation 9.0.4 Documentation -Deploy a Virtual Machine on a Namespace in a Supervisor VMware Cloud

Foundation 9.0.4 Documentation -Prepare a VM YAML file for Supervisor VMware Docs: VM Service in vSphere with Tanzu

NEW QUESTION # 42

In VMware Cloud Foundation (VCF) Operations, which node type is responsible for providing fault tolerance for administrative functions within the VCF Operations cluster?

- A. Data Node
- B. Witness Node
- C. Replica Node
- D. Primary Node

Answer: C

Explanation:

In VCF Operations (vRealize Operations) cluster architecture:

* The Primary Node handles administration and management.

* The Replica Node provides fault tolerance for the Primary Node, ensuring that administrative functions remain available in case of failure.

* Data Nodes handle data collection and analytics.

* Witness Node# Not a role in VCF Operations; relevant to vSAN clusters.

Thus, the node type providing fault tolerance for administrative functions is the Replica Node.

References:

VMware Cloud Foundation 9.0 -Operations Cluster Roles

VMware Docs: vROps Node Types

NEW QUESTION # 43

Which of the following statements describes hardware abstraction in VMware server virtualization?

- A. Allowing virtual machines to be live migrated between physical servers with Intel and AMD processors.
- B. Isolating memory access from the operating system and applications running in a virtual machine.
- C. Allowing virtual machines (VMs) to use hardware resources without being tied to specific physical devices.
- D. Encrypting all data processed by a virtual machine on the operating system level.

Answer: C

Explanation:

Hardware abstraction in VMware virtualization:

* The hypervisor abstracts physical resources (CPU, memory, storage, networking) and presents them to VMs as standardized virtual hardware.

* This allows VMs to run independently of underlying physical devices, enabling features like vMotion and hardware independence.

Other options:

* A. Encrypting data# Security feature, not abstraction.

* B. Isolating memory access# Memory protection, not full abstraction.

* C. Live migration between Intel and AMD# Possible with compatibility modes, but not a direct definition of abstraction.

References:

VMware vSphere 9.0 -Virtualization Fundamentals: Hardware Abstraction

NEW QUESTION # 44

An administrator is tasked to optimize storage utilization in an existing VMware vSAN Original Storage Architecture (OSA) cluster. The cluster has the following configuration:

- * Eight-node cluster with 1 disk group per node.
- * Virtual machines (VMs) are configured with 1 failure - RAID-1 storage policy.
- * Storage utilization is at 70%.

Which action can the administrator take to reduce the existing storage utilization with the minimum impact to the cluster?

- **A. Change the storage policy to 2 failure - RAID-6.**
- B. Enable Compression only on the cluster.
- C. Change the storage policy to 3 failure - RAID-1.
- D. Enable Deduplication and Compression on the cluster.

Answer: A

Explanation:

In avSAN Original Storage Architecture (OSA) cluster, the choice of storage policy directly impacts storage efficiency and resilience:

- * Current Setup:
- * Eight-node cluster, 1 disk group per node.
- * VMs are using FTT=1 RAID-1 (mirroring) policy.
- * Storage utilization is already at 70%.
- * RAID-1 (Mirroring):
- * Each piece of data is mirrored, requiring 2x storage capacity.
- * Space efficiency ~50%.
- * RAID-6 (Erasure Coding, FTT=2):
- * Requires a minimum of 6 hosts, satisfied here with 8.
- * Uses erasure coding instead of full mirroring, giving ~67% space efficiency.
- * Provides resilience against 2 host failures while using less space than RAID-1.

Thus, switching from RAID-1 FTT=1 to RAID-6 FTT=2 reduces overall storage utilization while still improving resilience.

Why not the other options?

- * A. Enable Deduplication and Compression## In OSA, enabling this requires a cluster-wide disk group reformat, which is disruptive and not the minimal impact choice.
- * B. Change policy to 3 failure - RAID-1## Increases redundancy but consumes much more capacity, worsening utilization.
- * C. Enable Compression only## Not available in OSA (only in ESA). OSA supports deduplication + compression together, not compression-only.
- * D. Change to 2 failure - RAID-6## Meets resilience requirements, reduces storage usage, and is supported on 8-node OSA clusters.

References:

VMware vSAN 9.0 Documentation - RAID-5/6 Erasure Coding requires 6+ hosts and improves space efficiency
VMware vSAN Design Guide - RAID-1 vs RAID-5/6 efficiency and requirements
VMware Cloud Foundation 9.0 Documentation - Changing storage policies triggers online reconfiguration without cluster-wide reformat

NEW QUESTION # 45

An administrator is tasked to configure shared storage for a VMware vSphere Foundation (VVF) cluster at a remote location.

The following is available at the remote location:

- * Two ESX servers.
- * Two 1GbE network cards per ESX.
- * One sixteen port 1GbE Switch.
- * One NVMe per ESX for the Operating System.
- * One storage system supporting network and fiber channel capabilities.

What storage protocol must the administrator use at the remote location?

- A. Local Storage
- B. Fiber Channel
- C. vSAN
- **D. NFS**

Answer: D

Explanation:

The scenario:

- * Remote site with 2 ESXi servers, 1GbE networking only.
- * Storage system supports both network (NAS/iSCSI/NFS) and Fiber Channel.
- * Fiber Channel is not feasible (no FC switches/HBAs).
- * vSAN requires more than 2 nodes (minimum 3 for standard vSAN, 2+Witness for 2-node), not mentioned here.

The most suitable solution:

- * Use NFS storage over 1GbE. (D)
- * Provides shared storage accessible to both ESXi hosts.

Other options:

- * A. vSAN# Needs 3+ nodes or a witness, not supported in this config.
- * B. Local storage# Not shared, fails HA/DRS requirements.
- * C. Fiber Channel# Requires HBAs and FC switch, not available.

References:

VMware vSphere 9.0 -Supported Storage Protocols

VMware Docs: Using NFS with ESXi Hosts

NEW QUESTION # 46

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