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VMware 2V0-16.25 Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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 3	• 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 4	• 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	• 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 (Q50-Q55):

NEW QUESTION # 50

An administrator has successfully deployed the VMware Cloud Foundation (VCF) Installer appliance to begin a new VMware vSphere Foundation (VVF) deployment. The VMware ESX hosts are powered on and meet all hardware and connectivity prerequisites.

What is the next step to begin deploying vSphere Foundation?

- A. Manually deploy the vCenter Server Appliance.
- B. Enable SSH on all ESX hosts.
- C. Install SDDC Manager using the VCF Installer.
- **D. Launch the VCF Installer deployment wizard.**

Answer: D

Explanation:

After successfully deploying the VCF Installer appliance, and ensuring ESXi hosts are powered on and meet prerequisites, the next steps to:

* Launch the VCF Installer deployment wizard, which guides administrators through host onboarding, vCenter deployment, and cluster setup for vSphere Foundation.

Other options:

* A. Enable SSH on all ESX hosts# Not required unless troubleshooting.

* C. Install SDDC Manager using VCF Installer# Only applies to full Cloud Foundation, not vSphere Foundation deployment.

* D. Manually deploy vCenter Server Appliance# The Installer wizard automates this.

References:

VMware Cloud Foundation 9.0 -Using VCF Installer for vSphere Foundation VMware Docs: VCF Installer Deployment Workflow

NEW QUESTION # 51

An administrator is tasked to implement a new iSCSI storage for a new cluster.

The following information was provided to the administrator:

* iSCSI storage controller IPs are all in the same subnet.

* Multipathing should be used.

* Storage supports Asymmetric Logical Unit Access (ALUA).

* Should be configured for high performance.

Which are the four required steps to configure this on an ESX host? (Choose four.)

- A. Configure two bound VMkernel ports.
- B. Configure 2 vSwitch with 1 Uplink.
- C. Set Path Selection Policy (PSP) to Round Robin (RR).
- D. Add NVMe over TCP software adapter.
- E. Set Path Selection Policy (PSP) to Most Recently Used (MRU).
- F. Configure 1 vSwitch with 2 Uplinks.
- G. Add iSCSI software adapter.
- H. Configure two unbound VMkernel ports.

Answer: A,C,F,G

Explanation:

For iSCSI multipathing with ALUA and high performance in ESXi:

* 1 vSwitch with 2 Uplinks# Standard design for redundancy and multipathing. (B)

* Add iSCSI software adapter# Required to connect to storage. (E)

* Configure two bound VMkernel ports# Ensures multipathing (one per uplink). (G)

* Set PSP to Round Robin (RR)# Optimizes I/O balancing across multiple paths. (F) Other options:

* A. 2 vSwitches with 1 Uplink each# Not recommended, complicates multipathing.

* C. NVMe over TCP# Not relevant, storage is iSCSI.

* D. MRU policy# Legacy, not high performance.

* H. Unbound VMkernel ports# Used for software iSCSI port binding, but "bound" VMkernel ports are required for multipathing.

References:

VMware vSphere 9.0 -iSCSI Configuration with Multipathing

VMware KB 2038869 -Configuring Round Robin PSP with iSCSI

NEW QUESTION # 52

Which action allows a Content Library in VMware vSphere Foundation (VVF) to be accessed by other VMware vCenter Server instances?

- A. Enable automatic synchronization.
- B. Publish the Content Library.
- C. Store the library on a vSAN datastore.
- D. Store the library on a shared NFS datastore.

Answer: B

Explanation:

To allow a Content Library in vSphere Foundation to be accessed by other vCenter Server instances, it must be published.

* Once published, other vCenters can subscribe to the library.

* Synchronization ensures subscribed vCenters receive updated templates and ISOs.

Other options:

* A. Automatic synchronization# Works only for subscribers, not for publishing.

* B. Store on vSAN datastore# Storage choice does not enable multi-vCenter access.

* C. Store on NFS datastore# Similar, datastore type does not matter.

References:

NEW QUESTION # 53

What is the primary purpose of using VMware vSphere Foundation (VVF) Lifecycle Manager for ESX hosts?

- A. To monitor the performance of ESX hosts
- B. To configure network settings for ESX hosts
- **C. To update and maintain the ESX host lifecycle**
- D. To create and manage virtual machines

Answer: C

Explanation:

The primary purpose of vSphere Lifecycle Manager (vLCM) is to:

- * Update, patch, and upgrade ESXi hosts, firmware, and drivers.
- * Manage host consistency across clusters with image-based lifecycle management.

Other options are unrelated:

- * A. Configure network settings# Done through vCenter or host client, not vLCM.
- * B. Monitor performance# Done in vCenter/VCF Operations, not vLCM.
- * C. Create/manage VMs# Managed through vCenter, not vLCM.

References:

VMware vSphere Lifecycle Manager Guide -Purpose and Functionality

VMware Docs: Managing ESXi Host Lifecycle

NEW QUESTION # 54

An administrator is tasked to create a new VMware vSAN cluster. The following information was provided to the administrator:

- * Should host high performance application.
- * Workload is latency dependent.
- * Workload, compute and storage must be in the vSAN cluster.

Which configuration should the administrator choose for this vSAN cluster?

- A. vSAN Original Storage Architecture (OSA)
- B. vSAN Storage Cluster
- **C. vSAN Express Storage Architecture (ESA)**
- D. vSAN Original Storage Architecture (OSA) Stretched Cluster

Answer: C

Explanation:

The workload requirements specify:

- * High-performance application
- * Latency-dependent workloads
- * Compute and storage must reside in the vSAN cluster

The correct option is vSAN Express Storage Architecture (ESA) because:

- * ESA is designed for high-performance, low-latency applications.
- * It leverages NVMe-based storage devices and 25GbE networking, delivering better IOPS and reduced latency compared to OSA.
- * OSA (Original Storage Architecture) is older and less efficient.
- * OSA Stretched Cluster (A) is for resilience across sites, not specifically performance.
- * vSAN Storage Cluster (B) is a generic term and not specific.

References:

VMware vSAN 9.0 -ESA vs OSA Architecture

VMware Docs: vSAN Express Storage Architecture

NEW QUESTION # 55

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