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VMware 3V0-21.23 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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."
Topic 2	• 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.
Topic 3	• 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.

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VMware vSphere 8.x Advanced Design Sample Questions (Q74-Q79):

NEW QUESTION # 74
In a vSphere environment, what is the purpose of a virtual switch (vSwitch)?

- A. To create a backup of virtual machine configurations
- B. To provide connectivity between virtual machines and the physical network
- C. To manage licensing for virtual machine deployment
- D. To enable communication between vCenter Server and ESXi hosts

Answer: B

NEW QUESTION # 75
What is the main focus of determining disaster recovery requirements for a vSphere design?

- A. To optimize the network protocols and configurations for data transfer.
- B. To plan for the recovery and restoration of critical services and data in case of a disaster.
- C. To ensure the confidentiality, integrity, and availability of data and resources in the vSphere environment.
- D. To identify the specific tasks and operations the vSphere system should perform.

Answer: B

NEW QUESTION # 76
An architect is holding a design workshop with a customer for a new solution. The customer states that the new solution needs to provide the following capabilities:
Automated deployment and lifecycle management of the vSphere platform
Self-Service deployment of virtual machines and other objects from a central catalog Monitoring, logging and analytic tooling to provide visibility and troubleshooting of the whole solution Support deployment via infrastructure-as-code methods for the additional management components The customer also requests that the solution be as cost-effective as possible while still delivering a fast time to value for the organization.
Which design approach should the architect recommend to meet these requirements?

- A. Use VMware Cloud Foundation for the vSphere solution and VMware Validated Solutions for the additional components
- B. Use VMware Validated Designs for the vSphere solution and VMware Validated Solutions for the additional components
- C. Use VMware Cloud Foundation for the vSphere solution and a custom design for the additional components
- D. Use a custom design for the vSphere solution and VMware Validated Solutions for the additional components

Answer: A

Explanation:
The customer has outlined the following requirements:
Automated deployment and lifecycle management of the vSphere platform: This requires a solution that provides automated provisioning, management, and updates. VMware Cloud Foundation (VCF) is an integrated platform that provides automation for the lifecycle of the vSphere platform, including updates and patch management.
Self-Service deployment of virtual machines and other objects from a central catalog: VMware Cloud Foundation includes tools like vRealize Automation (part of VCF) that enable self-service provisioning of virtual machines and other resources. Additionally, VCF provides centralized management for provisioning and orchestration.
Monitoring, logging, and analytic tooling for visibility and troubleshooting: VMware Cloud Foundation integrates with vRealize Operations and vRealize Log Insight, which provides visibility, monitoring, and logging capabilities for the entire solution. These tools help in analytics and troubleshooting across the entire infrastructure.
Support deployment via infrastructure-as-code methods for additional management components: VMware Validated Solutions (such

as vRealize Automation or vRealize Orchestrator) provide infrastructure-as-code capabilities, ensuring that the solution can be deployed in a consistent, repeatable manner, automating deployments of not just vSphere but also additional management components.

Cost-effectiveness with a fast time to value: VMware Cloud Foundation offers an integrated solution that is pre-configured and validated, which speeds up deployment and reduces operational complexity. By using VMware Validated Solutions for additional management components, the customer can leverage existing, tested solutions that are optimized for use with VCF, ensuring cost-effectiveness while meeting requirements.

NEW QUESTION # 77

An architect is responsible for extending the hosting design for a customer. The customer has a mission- critical 3-node application which is load balanced in an active/active/passive configuration. The application administrator requests that the virtual infrastructure team be responsible for maintaining platform level availability. An organizational policy exists to mandate the highest possible availability for mission-critical applications.

Based on the resource requirements, the architect has made the following design decision:

The target vSphere cluster contains three VMware ESXi host servers

A combination of which additional four physical design decisions should the architect make to maximize availability of the application? (Choose four.)

- A. The solution will enable vSphere High Availability (HA) with restart priority set to "Highest" for the application virtual machines.
- B. The solution will create a VM-Host Affinity rule that specifies that workloads must run on hosts in a group.
- C. The solution will create a VM-VM Affinity rule to keep virtual machines separate.
- D. The solution will create a host DRS group containing all hosts within the cluster.
- E. The solution will create a virtual machine DRS group that contains all of the critical application workloads.
- F. The solution will create a VM-VM Affinity rule to keep virtual machines together.
- G. The solution will enable vSphere Fault Tolerance with vSphere High Availability (HA) virtual machine component failure enabled.

Answer: A,B,E,G

Explanation:
The solution will create a VM-Host Affinity rule that specifies that workloads must run on hosts in a group.
Creating a VM-Host Affinity rule ensures that specific workloads are restricted to certain hosts, which can be useful to avoid placing critical applications on hosts that may not meet their availability requirements.
The solution will enable vSphere High Availability (HA) with restart priority set to "Highest" for the application virtual machines.
Enabling vSphere HA ensures that virtual machines are automatically restarted on other hosts in the event of a host failure. Setting the restart priority to "Highest" for mission-critical VMs ensures that these VMs will have the highest priority for restart if any issues arise.
The solution will enable vSphere Fault Tolerance with vSphere High Availability (HA) virtual machine component failure enabled.
Enabling vSphere Fault Tolerance (FT) ensures that the application VMs are fully protected by creating a live shadow VM that runs in lockstep with the primary VM. In the event of a host failure, the shadow VM will take over instantly, providing continuous availability for the application.
The solution will create a virtual machine DRS group that contains all of the critical application workloads.
Creating a virtual machine DRS (Distributed Resource Scheduler) group for critical workloads ensures that these VMs are placed and migrated to the optimal hosts based on the cluster's resource requirements, improving availability and performance.

NEW QUESTION # 78

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:
- Management
- vMotion
- vSAN
- Fault Tolerance
- Virtual machine traffic, which cannot be impacted by other types of traffic Which design recommendation can the architect make for a resilient infrastructure with vSphere network service tiering?

- A. 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

- B. Use different logical networks to ensure traffic is isolated with separate VLANs
- C. Use a NIC teaming policy based on the physical NIC load
- D. Use Network I/O Control and ensure appropriate share value is defined for different types of traffic giving priority to the virtual machines traffic

Answer: D

NEW QUESTION # 79
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