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## VMware vSphere 8.x Advanced Design Sample Questions (Q52-Q57):

### NEW QUESTION # 52

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

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

- **D. Workload domains are pre-configured and automatically deployed according to industry best practices for SDDC implementation.**

**Answer: D**

#### **NEW QUESTION # 53**

In a meeting to discuss the minimum viable product (MVP) deployment of a new customer-facing application, the key stakeholder shares details of the application components and the application administrators share details of performance and integrity tests for the application.

The application will be made up of the following components:

- A web server Steps to confirm the web server is operating correctly will take 15 minutes after the application server is online.
- An application server Steps to confirm application server integrity will take 15 minutes after the database is online.
- A database server The database server will be managed by a database administrator, with an agreed service-level agreement (SLA) to restore and validate database services within one hour.

The existing VMware infrastructure offers a recovery point objective (RPO) of 5 minutes and recovery time objective (RTO) of 15 minutes through a combination of backups and replication.

In the event of an outage impacting all three application components, how long will it take for the application to recover and complete all checks?

- A. 15 minutes
- **B. 105 minutes**
- C. 60 minutes
- D. 90 minutes

**Answer: B**

#### **NEW QUESTION # 54**

When performing a vSphere upgrade, what is the best practice to ensure compatibility with existing hardware, software, and third-party plugins?

- **A. Upgrade ESXi hosts first, followed by the vCenter Server**
- B. Disconnect all third-party plugins before starting the upgrade process
- C. Perform a clean installation of vSphere components on new hardware
- D. Upgrade the vCenter Server first, followed by ESXi hosts

**Answer: A**

#### **NEW QUESTION # 55**

An architect is responsible for the design of a greenfield vSphere-based solution for hosting a new web-based application. The customer has provided the following high-level information:

The solution will host a highly transactional web application that is spread across multiple workloads within a vSphere cluster.

The workloads should be distributed evenly across the hosts to maximize the performance and availability of the web application.

The architect has made various design decisions, including:

The solution will deploy vSphere distributed switches for all virtual networking.

Which network load balancing method should the architect document in the physical design to meet the requirements?

- A. Route Based on Source MAC Hash
- B. Route Based on IP Hash
- **C. Route Based on Physical NIC Load**
- D. Route Based on Originating Virtual Port

**Answer: C**

Explanation:

Based on VMware vSphere 8.x Advanced documentation and the customer requirements, the architect is designing a greenfield vSphere-based solution for a highly transactional web application hosted across multiple workloads in a vSphere cluster. The workloads must be distributed evenly across hosts to maximize performance and availability, and the solution will use vSphere Distributed Switches (vDS) for virtual networking. The architect must select a network load balancing method for the physical design

that aligns with these requirements.

Requirements Analysis:

Highly transactional web application: The application requires high network performance and low latency, as transactional workloads are sensitive to network bottlenecks.

Workloads spread across multiple workloads in a vSphere cluster: The application runs on multiple VMs, implying a need for balanced resource utilization across hosts.

Workloads distributed evenly across hosts: This suggests the use of vSphere features like Distributed Resource Scheduler (DRS) for compute load balancing and a network load balancing method to ensure even distribution of network traffic across NICs.

Maximize performance and availability: The network design must avoid bottlenecks, ensure redundancy, and dynamically adapt to traffic demands to maintain application performance and uptime.

vSphere Distributed Switches: vDS provides advanced networking features like Network I/O Control (NIOC), Link Aggregation Control Protocol (LACP), and dynamic load balancing, which are critical for meeting performance and availability goals.

Evaluation of Network Load Balancing Methods:

The load balancing method determines how traffic from VMs is distributed across the physical NICs (uplinks) in a vDS. The options are:

A). Route Based on IP Hash:

Description: Distributes traffic based on a hash of the source and destination IP addresses, requiring Link Aggregation Control Protocol (LACP) or EtherChannel configuration on the physical switch.

Why incorrect: While IP Hash can distribute traffic across NICs, it requires complex switch configuration and is less effective for dynamic load balancing in a highly transactional environment. It does not adapt to real-time NIC load, which could lead to uneven traffic distribution and potential bottlenecks, failing to maximize performance. It also increases complexity without clear benefits for this use case.

B). Route Based on Physical NIC Load:

Description: Also known as Load-Based Teaming (LBT), this method dynamically balances traffic across uplinks based on the actual load of each physical NIC, reassigning VM traffic if a NIC becomes congested (e.g., exceeds 75% utilization over a 30-second window).

Why correct: LBT is ideal for a highly transactional web application, as it ensures even distribution of network traffic across NICs, maximizing performance by preventing any single NIC from becoming a bottleneck. It supports availability by leveraging multiple NICs for redundancy and dynamically adapting to traffic patterns, aligning with the requirement to distribute workloads evenly. LBT works seamlessly with vDS and does not require complex switch configurations, making it suitable for a greenfield design. Combined with features like NIOC, it ensures optimal network resource utilization for the application.

VMware vSphere 8 networking documentation recommends Route Based on Physical NIC Load for dynamic load balancing in performance-sensitive environments.

C). Route Based on Originating Virtual Port:

Description: Assigns each VM's traffic to a physical NIC based on the VM's virtual port ID on the vDS, distributing traffic statically across uplinks.

Why incorrect: This method is simple and requires no switch configuration, but it does not account for actual NIC load, potentially leading to uneven traffic distribution if some VMs (e.g., transactional workloads) generate more traffic than others. It fails to maximize performance for a highly transactional application, as it cannot dynamically adapt to traffic spikes or ensure even NIC utilization.

D). Route Based on Source MAC Hash:

Description: Distributes traffic based on a hash of the VM's source MAC address, statically assigning traffic to uplinks.

Why incorrect: Similar to Originating Virtual Port, this method is static and does not consider real-time NIC load, risking uneven traffic distribution and potential bottlenecks. It is less effective for a highly transactional application where dynamic load balancing is needed to ensure performance and availability.

Why B is the Best Choice:

Performance optimization: Route Based on Physical NIC Load dynamically balances traffic based on NIC utilization, ensuring no single NIC is overwhelmed, which is critical for a highly transactional web application with variable traffic patterns.

Even distribution: By monitoring and redistributing traffic, LBT aligns with the requirement to distribute workloads evenly across hosts, complementing DRS for compute resources with balanced network utilization.

Availability: LBT leverages multiple NICs for redundancy, ensuring traffic failover if a NIC fails, supporting the high availability needs of the application.

vDS compatibility: LBT is fully supported on vDS and integrates with features like NIOC to prioritize application traffic, enhancing performance and resilience.

Simplicity: Unlike IP Hash, LBT requires no complex switch configuration, making it ideal for a greenfield design.

Example Configuration:

vDS Setup: Configure a vDS with multiple uplink port groups for management, vMotion, and workload traffic (web application VMs).

Load Balancing: Set Route Based on Physical NIC Load for the workload port group to dynamically balance the application's transactional traffic across available NICs (e.g., 2-4 x 10 GbE NICs per host).

NIOC: Use Network I/O Control to prioritize web application traffic over other traffic types (e.g., vMotion) during contention.

Redundancy: Ensure at least two NICs per port group for failover, aligning with availability requirements.

### NEW QUESTION # 56

An architect is reviewing the information gathered from an initial requirements gathering workshop.

The following requirements have been identified:

REQ001 - The architecture must support tracking of administrative logons and actions.

REQ002 - The architecture must support class three (three nines or 99.9%) system availability.

REQ003 - The architecture must report on system usage in terms of CPU, memory, storage and network.

REQ004 - The architecture must provide for system recovery point objective (RPO) of two hours.

REQ005 - The architecture must provide access to a precision time protocol (PTP) for time synchronization.

Which two of the listed requirements would be classified as business (formerly functional) requirements?

(Choose two.)

- **A. The architecture must provide for system recovery point objective (RPO) of two hours.**
- **B. The architecture must support class three (Three nines or 99.9%) system availability.**
- C. The architecture must report on system usage in terms of CPU, memory, storage and network.
- D. The architecture must support tracking of administrative logons and actions.
- E. The architecture must provide access to a precision time protocol (PTP) for time synchronization.

**Answer: A,B**

Explanation:

The architecture must support class three (three nines or 99.9%) system availability.

This requirement focuses on the availability of the system, which is a business goal related to ensuring that the system is operational for a specified percentage of time (99.9% uptime). It is a high-level operational requirement that is tied to business continuity and meeting customer service expectations.

The architecture must provide for system recovery point objective (RPO) of two hours.

The RPO is a business requirement related to disaster recovery. It specifies how much data loss is acceptable in the event of a failure. This requirement ensures that business processes are protected by minimizing the potential impact of data loss, making it a key business consideration.

### NEW QUESTION # 57

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