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EMC Dell PowerFlex Implementation Achievement Sample Questions (Q10-Q15):

NEW QUESTION # 10

Which four prerequisites must be met before deploying PowerFlex on the Management Controller?
(Select 4)

- A. Deploy VMware vCenter.
- B. Configure VM HA and DRS.
- C. Install and configure ESXi on the Management Controller.
- D. Deploy and configure the storage VMs.
- E. Set up hardware affinity.
- F. Configure the switch ports.

Answer: A,B,C,F

Explanation:

Before deploying PowerFlex on the Management Controller, there are essential prerequisites to ensure a smooth and functional

deployment:

- * Deploy VMware vCenter (Option B):

- * VMware vCenter is required to manage the ESXi hosts and VMs in the PowerFlex cluster. This ensures proper virtualization management and cluster configuration.

- * vCenter also supports features like High Availability (HA) and Distributed Resource Scheduler (DRS), which are essential for PowerFlex operations.

- * Install and Configure ESXi on the Management Controller (Option C):

- * The Management Controller must have a functioning ESXi hypervisor to host the PowerFlex management components and virtual machines.

- * ESXi installation ensures the virtualization layer is ready to manage PowerFlex VMs.

- * Deploy and Configure the Storage VMs (Option D):

- * PowerFlex storage nodes and VMs must be properly configured to enable storage pooling and service delivery.

- * This includes ensuring the SDS (Storage Data Server) and MDM (Meta Data Manager) roles are assigned to VMs.

- * Configure the Switch Ports (Option E):

- * Network connectivity must be established by configuring switch ports to support proper communication between components.

- * This step includes setting VLANs, MTU settings (jumbo frames), and ensuring link aggregation configurations are in place for redundancy and performance.

Why Not the Other Options?

- * Option A: Set up hardware affinity: While hardware affinity is important for VM placement, it is not a prerequisite for deploying PowerFlex.

- * Option F: Configure VM HA and DRS: These are typically configured after deployment and are not prerequisites for the initial setup.

References:

- * Dell PowerFlex Deployment Guide

- * Dell EMC PowerFlex Rack Planning and Preparation Guide

NEW QUESTION # 11

Which three statements about partial automation in a PowerFlex environment are true? (Select 3)

- A. Offered for hyperconverged environments only.
- B. Requires 25 Gb network cards.
- C. Requires 10 Gb network cards.
- D. Offered for two-layer environments.
- E. Offered for PowerFlex appliance only.

Answer: B,D,E

Explanation:

Partial automation in a PowerFlex environment refers to scenarios where certain aspects of the deployment or management process are automated while others require manual intervention. The following statements about partial automation are accurate:

- * Offered for PowerFlex appliance only (Option A):

- * Partial automation is exclusive to PowerFlex appliances, where automation simplifies operations while adhering to specific constraints.

- * This contrasts with the rack solution, which typically involves full automation.

- * Requires 25 Gb network cards (Option C):

- * PowerFlex environments with partial automation mandate the use of 25 Gb network cards to support high-bandwidth requirements.

- * 25 Gb networking is essential for ensuring smooth data flow and performance, particularly in environments with storage-intensive workloads.

- * Offered for two-layer environments (Option E):

- * Partial automation is available for two-layer configurations where compute and storage resources are separated.

- * This flexibility allows organizations to tailor their setup based on workload requirements while benefiting from some automation features.

Why Not the Other Options?

- * Option B: Requires 10 Gb network cards: While 10 Gb network cards are supported for certain environments, they do not meet the requirements for partial automation, which necessitates 25 Gb cards.

- * Option D: Offered for hyperconverged environments only: Partial automation is not limited to hyperconverged setups and is also applicable to two-layer environments.

References:

- * Dell EMC PowerFlex Architecture Guide

NEW QUESTION # 12

How many days may a PowerFlex cluster remain in a production environment after deployment before a license is required for continued operation?

- A. 90 days
- B. 30 days
- C. 60 days
- D. 120 days

Answer: A

Explanation:

A PowerFlex cluster can remain in a production environment for 90 days after deployment before requiring a valid license for continued operation.

* Trial Period (Option C):

* Dell PowerFlex provides a grace period of 90 days for evaluation and testing purposes.

* During this time, all features and functionalities are accessible, allowing organizations to assess the solution's fit for their environment.

* License Activation:

* Before the end of the trial period, a valid license must be applied to avoid disruption in operations.

* PowerFlex Manager can assist with managing and applying licenses to ensure compliance.

Why Not the Other Options?

* Option A: 30 days: This period is too short for PowerFlex's trial license policy.

* Option B: 120 days: This exceeds the typical trial period duration set by Dell.

* Option D: 60 days: The trial period is longer than 60 days, allowing sufficient time for evaluation.

References:

* Dell PowerFlex Licensing and Compliance Documentation

* Dell EMC PowerFlex Manager Administration Guide

NEW QUESTION # 13

Which tool can be used to install the SDR component in a PowerFlex 4.x cluster?

- A. PowerFlex Manager
- B. PowerFlex WebUI
- C. Installation Manager
- D. vSphere Plug-In

Answer: A

Explanation:

The PowerFlex Manager is the tool specifically designed for managing and orchestrating the deployment of components, including SDR (Storage Data Replication), in a PowerFlex 4.x environment.

* Purpose of PowerFlex Manager: PowerFlex Manager simplifies the implementation and lifecycle management of PowerFlex clusters. It includes workflows to install, configure, and upgrade components such as the SDR.

* Why Not the Other Options?

* vSphere Plug-In: This is used for managing and monitoring PowerFlex components within a vSphere environment but doesn't handle SDR installation.

* PowerFlex WebUI: This interface is used for day-to-day cluster management tasks but is not designed to install SDR components.

* Installation Manager: While it can assist with certain components during the setup process, it is not the dedicated tool for SDR installations.

References: Dell PowerFlex documentation specifies the use of PowerFlex Manager for orchestrating SDR installations. Consult the "PowerFlex Manager Deployment Guide" and "PowerFlex 4.x Administration Guide" for further details.

NEW QUESTION # 14

What is the minimum number of nodes required to create a production PowerFlex Management Platform Cluster?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: A

Explanation:

To create a production-ready PowerFlex Management Platform (PFMP) cluster, a minimum of three nodes is required. This requirement is verified by the Dell PowerFlex Deployment Guide and other official Dell documentation. The three-node configuration ensures high availability and fault tolerance for the management platform, which is critical for managing and monitoring the PowerFlex environment.

* High Availability: A three-node cluster allows for redundancy and failover capabilities. If one node fails, the remaining two nodes can continue to manage the cluster without interruption.

* Quorum Maintenance: In distributed systems like PowerFlex, maintaining quorum (a majority of nodes agreeing on the state of the system) is essential for consistency and reliability. A three-node cluster ensures that quorum can be maintained even if one node goes offline.

* Best Practices: Dell recommends a minimum of three nodes for production environments to align with industry standards for high availability and scalability.

* A. 9: While nine nodes can be used for larger-scale deployments, it is not the minimum requirement for a production cluster.

* B. 1: A single-node configuration is only suitable for non-production or lab environments where high availability is not a concern. It is not supported for production use.

* C. 5: Five nodes provide additional redundancy but are not the minimum requirement for a production cluster.

* Dell PowerFlex Deployment Guide (Version 4.x): Specifies the minimum number of nodes required for a production PowerFlex Management Platform cluster.

* PowerFlex Best Practices Guide: Recommends a three-node configuration for production environments to ensure high availability and fault tolerance.

Why three nodes are required: Why the other options are incorrect: Key References:

NEW QUESTION # 15

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