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Exam : **D-PWF-DS-23**

Title : Dell PowerFlex Design 2023
Exam

Vendor : EMC

Version : DEMO

NO.1 A customer application generates 2 GB/s writes, and any expected outages will not exceed 3 hours.

What percentage of 200 TB should be allocated as journal capacity?

- A. 11%
- B. 12%
- C. 13%
- D. 14%

Answer: A

NO.2 When capturing and validating a PowerFlex design with a customer, what is the most important aspect to consider?

- A. The cost-effectiveness of the design
- B. The future scalability of the system
- C. The alignment with customer's business objectives
- D. The aesthetics of the hardware layout

Answer: C

NO.3 Which of the following are benefits of configuring Storage Pools in PowerFlex? (Select all that apply)

- A. Improved data organization and management
- B. Enhanced performance through optimized caching
- C. Increased fault tolerance and data redundancy
- D. Reduced network latency and bandwidth usage

Answer: A C

NO.4 A customer wants to deploy file services. They want to share files between their UNIX systems. Which protocol must FSN support?

- A. NFS
- B. FTP
- C. SMB

Answer: A

NO.5 An architect has configured a PowerFlex solution to use a fine granularity storage pool based on a customer's initial request. After validating the design against a LiveOptics output, they modified the granularity of the configuration to medium.

What did the architect accomplish with this change?

- A. Improved performance
- B. Better distribution of data blocks
- C. Increased effective capacity

Answer: A

Explanation:

By changing the granularity of the PowerFlex storage pool from fine to medium, the architect improved the performance of the system. Medium Granularity (MG) storage pools are recommended

for environments where I/O performance and low latency are critical, such as Virtual Desktop Infrastructure (VDI) deployments¹.

Here's a detailed explanation of the change:

Fine Granularity (FG): FG storage pools are designed for space efficiency and enable features like inline compression, which can reduce the size of volume data depending on its compressibility. However, this can come at the cost of performance due to the overhead of compression and the smaller space allocation block size².

Medium Granularity (MG): MG storage pools, on the other hand, provide supreme I/O performance with the least latency to virtual machines and applications. They use a larger space allocation block size of 1 MB, which is more efficient for I/O operations compared to the 4 KB block size used in FG storage pools¹.

Performance Improvement: By switching to an MG storage pool, the architect ensured that the storage volumes provide better I/O performance and lower latency, which is essential for applications that require fast and responsive storage access¹.

This change aligns with the best practices for PowerFlex storage provisioning, where the selection of granularity is based on the specific performance and space efficiency needs of the customer's workload¹.

NO.6 What is the purpose of backing up a PowerFlex cluster?

- A.** To reduce network latency
- B.** To optimize CPU utilization
- C.** To prevent data loss and facilitate disaster recovery
- D.** To increase storage capacity

Answer: C

NO.7 An administrator is adding an NVMe device to an existing storage pool.

They provide the following details in the Add Storage Device to SDS dialog box

- * Device Path /dev/disk/by-id'Dell_Express_Flash_NVMe_PM1725_V6TB_SFF__S2JPNA0J500141
- * Device Name NVMeA. 1.6 TB
- * Storage Pool SP-1

What is the result of this action'?

- A.** The device addition fails due to an invalid path
- B.** The device is named "NVMeAt 6 TB" and added to the Storage Pool "SP-1".
- C.** The device name is truncated to "NVMe" and added to the Storage Pool "SP-t"
- D.** The device addition fails due to invalid characters in the name

Answer: A

Explanation:

When adding an NVMe device to an existing storage pool in PowerFlex, the details provided in the "Add Storage Device to SDS" dialog box must be accurate and follow the correct syntax. In the scenario provided, the device path contains an invalid character (an apostrophe) and an incorrect format, which would cause the device addition to fail.

Here's a breakdown of the process and where the error occurs:

Device Path: The device path should be a valid Linux device path, typically starting with /dev/disk/by-id/. The path provided contains an apostrophe (') which is not a valid character in Linux file paths and would result in an error¹.

Device Name: The device name should be a simple identifier without spaces or special characters. The name provided, "NVMeA. 1.6 TB", contains spaces and periods, which are not typical for device names and could potentially lead to issues, although the primary cause of failure is the invalid device path1.

Storage Pool: The storage pool name "SP-1" is a valid identifier, but it is contingent on the correct device path and name for the device to be added successfully.

The result of the action, given the invalid device path, would be that the device addition fails. It is crucial to ensure that all details entered in the dialog box adhere to the expected formats and do not contain invalid characters to avoid such failures.

This explanation is based on the standard practices for device path naming conventions in Linux systems and the configuration guidelines for PowerFlex systems as described in Dell's official documentation1. Correcting the device path by removing the invalid character and ensuring the proper format would resolve the issue and allow the device to be added to the storage pool successfully.

NO.8 A customer is trying to place an SDS into Protected Maintenance Mode, and the operation fails.

What two scenarios can cause the failure" (Select 2)

- A.** Another node in a different protection domain is in protected maintenance mode
- B.** Another node in the same protection domain is In maintenance mode
- C.** Another node has failed in the same protection domain
- D.** Another node in a different protection domain is in instant maintenance mode

Answer: B C

Explanation:

Placing an SDS into Protected Maintenance Mode (PMM) can fail due to several scenarios, two of which are:

Another node in the same protection domain is in maintenance mode: PMM is designed to ensure data protection and availability during maintenance activities. If another node within the same protection domain is already in maintenance mode, initiating PMM on an additional node could compromise the protection domain's ability to maintain data availability and redundancy1. **Another node has failed in the same protection domain:** The failure of a node within the same protection domain can prevent the initiation of PMM for another node. This is because the system needs to ensure that there is sufficient redundancy and that data protection is not jeopardized by having multiple nodes in a non-operational state within the same protection domain1.

These scenarios are based on the operational principles of PowerFlex's maintenance modes, as described in the Dell PowerFlex documentation. The system's priority is to maintain data protection and availability, and therefore, it restricts the ability to enter PMM under conditions that could threaten these objectives1.

NO.9 What is the role of a Meta Data Manager (MDM) in PowerFlex?

- A.** Manages access control for storage resources
- B.** Handles metadata operations and data consistency
- C.** Optimizes storage performance through caching algorithms
- D.** Monitors network traffic and bandwidth usage

Answer: B

NO.10 In PowerFlex, what is the benefit of using different deployment models?

- A. They allow for a variety of networking protocols
- B. They offer different levels of system security
- C. They cater to diverse scalability and performance needs
- D. They change the physical hardware requirements

Answer: C

NO.11 What is the default value of paths per volume when adding an NVMe host?

- A. 8
- B. 4
- C. 2
- D. 1

Answer: A

Explanation:

The default value of paths per volume when adding an NVMe host to a PowerFlex system is 8. This setting is relevant for the configuration of multipathing, which is a method used to provide redundancy and increase availability for storage environments. When you add an NVMe host, the system allows up to 8 paths per volume to be configured by default. This is particularly important in VMware ESXi environments, where multipathing can be configured to handle failover and load balancing of storage traffic.

The reference for this information is found in the Dell PowerFlex specification sheet, which outlines the maximum paths in the multipathing driver per volume as 8 for ESXi 7.0u31. This document provides detailed specifications and configurations for the PowerFlex system, ensuring that the information is aligned with Dell's official documentation and design guidelines for PowerFlex systems

NO.12 Which deployment model is suitable for organizations requiring high performance and scalability?

- A. Standalone
- B. Hyperconverged
- C. Distributed
- D. Hybrid

Answer: C

NO.13 Which of the following are PowerFlex products? (Select all that apply)

- A. PowerFlex Manager
- B. PowerFlex Gateway
- C. PowerFlex Node
- D. PowerFlex Switch

Answer: A C

NO.14 What is a crucial consideration when troubleshooting a PowerFlex cluster?

- A. Regular data backup

- B. Network latency analysis
- C. Hardware compatibility checks
- D. Cluster health monitoring

Answer: D

NO.15 Which security measure is essential for securing data-at-rest in a PowerFlex cluster?

- A. RAID configurations
- B. Disk partitioning
- C. Encryption
- D. Compression

Answer: C

NO.16 What is a Storage Pool in PowerFlex?

- A. A group of disks or SSDs used for storing data
- B. A network segment dedicated to storage traffic
- C. A virtual machine hosting storage management software
- D. A backup server for disaster recovery purposes

Answer: A

NO.17 Which components of a PowerFlex cluster should be included in a comprehensive backup plan? (Select all that apply)

- A. Metadata Managers (MDMs)
- B. Storage Pools
- C. PowerFlex Switches
- D. Virtual Machines (VMs)

Answer: A B

NO.18 Which software interfaces are available for managing PowerFlex? (Select all that apply)

- A. Command Line Interface (CLI)
- B. Graphical User Interface (GUI)
- C. Application Programming Interface (API)
- D. Web Console

Answer: A B C

NO.19 What is a benefit of using PowerFlex products in a distributed deployment model?

- A. Reduced complexity in management
- B. Limited scalability options
- C. Decreased fault tolerance
- D. Lower initial investment costs

Answer: A D

NO.20 Which phase of the PowerFlex Solution Design process involves gathering customer requirements and constraints?

- A.** Validate
 - B.** Plan
 - C.** Design
 - D.** Implement
- Answer:** B