



# E10-001<sup>Q&As</sup>

Information Storage and Management Exam Version 2

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**QUESTION 1**

In what way does an integrated NAS solution differ from a Gateway NAS solution?

- A. Integrated NAS manages storage devices through NAS software. Gateway NAS relies on storage array management software to manage storage devices.
- B. Integrated NAS allows both file and block level access to the clients. Gateway NAS allows only block level access to the clients.
- C. Integrated NAS utilizes specialized operating systems. Gateway NAS utilizes generic operating systems.
- D. Integrated NAS uses Fibre Channel disks only. Gateway NAS uses both Fibre Channel and SATA disks.

Correct Answer: B

**NAS Implementation**

The unified NAS consolidates NAS-based and SAN-based data access within a unified storage platform and provides a unified management interface for managing both the environments.

Unified NAS performs file serving and storing of file data, along with providing access to block-level data. It supports both CIFS and NFS protocols for file access and iSCSI and FC protocols for block level access. Due to consolidation of

NAS-based and SAN-based access on a single storage platform, unified NAS reduces an organization's infrastructure and management costs.

A gateway NAS device consists of one or more NAS heads and uses external and independently managed storage. Similar to unified NAS, the storage is shared with other applications that uses block-level I/O. Management functions in this

type of solution are more complex than those in a unified NAS environment because there are separate administrative tasks for the NAS head and the storage.

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**QUESTION 2**

Which parameter determines the rotation latency of a disk drive?

- A. Speed of the spindle
- B. Seek time
- C. Data transfer speed
- D. Response time

Correct Answer: A

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**QUESTION 3**



Which storage system is designed for storing fixed content?

- A. Content addressed storage
- B. Block-based storage
- C. File-based storage
- D. Hierarchy-based storage

Correct Answer: A

#### QUESTION 4

Click on the calculator icon in the upper left corner.

An application requires 3.5 TB of capacity. The application generates 2300 IOPS to disks during peak workloads. The vendor indicates that a 146 GB, 15K rpm drive is capable of performing a maximum of 150 IOPS.

How many disks are required to meet both capacity and performance requirements?

- A. 15
- B. 22
- C. 24
- D. 60

Correct Answer: C

Storage Design based on Application Requirements and Disk Drive Performance

- Disks required to meet an application's capacity need ( $D_C$ ):

$$D_C = \frac{\text{Total capacity required}}{\text{Capacity of a single disk}}$$

- Disks required to meet application's performance need ( $D_P$ ):

$$D_P = \frac{\text{IOPS generated by an application at peak workload}}{\text{IOPS serviced by single disk}}$$

- IOPS serviced by a disk (S) depends upon disk service time ( $T_S$ ):

$$T_S = \text{Seek time} + \frac{0.5}{(\text{Disk rpm}/60)} + \frac{\text{Data block size}}{\text{Data transfer rate}}$$

- ▶  $T_S$  is time taken for an I/O to complete, therefore IOPS serviced by a disk (S) is equal to  $(1/T_S)$

▶▶ For performance sensitive application  $(S) = 0.7 \times \frac{1}{T_S}$

$\text{Disk required for an application} = \max(D_C, D_P)$

Calculation  $D_C = 3.5\text{TB} / 146\text{GB} = 3500 / 146 = 23.97 = 24$  Drives  $D_P = 2300 \text{ iops} / 150 \text{ iops} = 15.33 = 15$  Drives  
Disk required =  $\max(D_C, D_P) = \max(24, 15) = 24$

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#### QUESTION 5

Which benefit does the measured service characteristic provide to a cloud service provider?

- A. Enables control and optimization of resource use
- B. Enables cloud services to communicate with each other
- C. Enables availability of specific resources depending on policy
- D. Enables the reduction and/or elimination of upfront IT expenditures

Correct Answer: A

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