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Hitachi HCE-3700

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QUESTION NO: 1

A 10K RPM Small Form Factor 600 GB disk drive has a 3 ms average rotational latency and a 4 ms average seek time. How many random read IOPS would you expect from a 4D+4D RAID group using these drives before any consideration for cache hits or queuing optimization benefits?

- A. approximately 570 IOPS
- B. approximately 1,140 IOPS
- C. approximately 1,530 IOPS
- D. approximately 2,280 IOPS

ANSWER: D

QUESTION NO: 2

A customer plans to migrate an interactive application from a VSP to VSP G1000. The application has consistent access across all its capacity with low hit rates and no particularly high I/O access areas. The application latency must be less or equal to 1.5 ms.

Which configuration do you recommend to satisfy the requirements?

- A. an HDT pool consisting of SAS 10K and FMD drives
- B. an HDP pool with FMD drives
- C. an HDP pool consisting of NL-SAS and FMD drives
- D. an HDP pool consisting of external LDEVs provisioned on a VSP F400 system

ANSWER: A

QUESTION NO: 3

A customer with a VSP G1000 is using HDT with SAS 15K drives and external storage. The customer wants the daytime response-sensitive workload to benefit from tiering. They also want to minimize the impact of relocations on the daytime operation itself.

In this scenario, which action will satisfy the requirements?

- A. Enable monitoring only during the daytime hours (9:00 AM to 5:00 PM) and only enable relocation at other times.

- B. Disable monitoring during daytime hours (9:00 AM to 5:00 PM)
- C. Enable active flash so that all relocations can be completed in short bursts.
- D. Use continuous mode with a 30-minute cycle time and define relocation during daytime hours (9:00 AM to 5:00 PM) with a low relocation speed.

ANSWER: A

QUESTION NO: 4

A customer is considering buying a new VSP Midrange system with iSCSI front-ends. The system will be used to support existing Oracle databases and a new MS Exchange mail system. The existing customer's LAN has enough resources to handle the iSCSI traffic. They have provided the required storage for Oracle and MS Exchange.

What I/O profile information is required to size the VSP system in this scenario? (Choose two.)

- A. transactions per second collected from the Oracle databases
- B. the planned amount of MS Exchange mailboxes and IOPS per user
- C. the planned amount of e-mails per second the MS Exchange system will send and receive
- D. IOPS and R/W ratio collected from the Oracle databases

ANSWER: B D

QUESTION NO: 5

You are designing a VSP G1000 solution for a customer and you need to determine the appropriate disk type and RAID level. What information do you need to design the solution? (Choose three.)

- A. type of workloads
- B. workloads read-write ratio
- C. operating systems used in the environment
- D. fan-in and fan-out ratios
- E. expected I/O rates

ANSWER: A B E

QUESTION NO: 6

Which two environments are suitable for cost effective use of Hitachi Accelerated Flash disk media? (Choose two.)

- A. Online Analytical Processing (OLAP) data warehouse

- B. Online Transaction Processing (OLTP) with HDT
- C. large scale Consumer Video on Demand (CVOD)
- D. Virtual Desktop (VDI)

ANSWER: A B

QUESTION NO: 7

DP-Vol LUNs are taken from an HDP pool deployed with 128 disks (16x4D+4D RAID groups). Access is random read.

Which combination of FC paths, LUN Queue Depth, and number of DP-Vols will result in a per-disk queue of 4 within this pool?

- A. 2 paths, a LUN Queue Depth of 16, and 32 DP-Vols
- B. 2 paths, a LUN Queue Depth of 8, and 32 DP-Vols
- C. 4 paths, a LUN Queue Depth of 8, and 32 DP-Vols
- D. 4 paths, a LUN Queue Depth of 16, and 32 DP-Vols

ANSWER: D

QUESTION NO: 8

A VSP G1000 performance analysis shows that server response times for virtualized volumes are high, 100 ms and higher, but HDD utilization rates in an external HUS 150 never exceed 35%. There are no processor or path constraints in the configuration. The workload is steady and stable. Which two actions will optimize this configuration? (Choose two.)

- A. Increase the external path LUN queue depth in the VSP G1000.
- B. Spread the server load across more and smaller LUNS per RAID group in the HUS.
- C. Break up each HUS LUN into several smaller volumes in the VSP G1000.
- D. Migrate the HUS LUNs to RAID groups with faster HDDs.

ANSWER: A B

QUESTION NO: 9

Which three key metrics are required for sizing applications? (Choose three.)

- A. cache read hit ratios

- B. IOPS
- C. I/O read/write ratios
- D. number of BED pairs
- E. port speed

ANSWER: A B C

QUESTION NO: 10

A customer has an HDP pool with four array groups and 600 GB SAS drives operating at 85% utilization. Four array groups of the same configuration were added to the pool.

In this scenario, which metric should be reviewed to validate optimal pool performance?

- A. pool total IOPS
- B. pool I/O profile
- C. pool array group utilization
- D. pool read/write ratio

ANSWER: C