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QUESTION NO: 1

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: 2

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: 3

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

QUESTION NO: 4

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: 5

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: 6

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: 7

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: 8

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: 9

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: 10

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