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Vendor:Hitachi

Exam Code:HCE-3700

Exam Name:Hitachi Vantara Certified Expert -
Performance architect

Version:Demo

QUESTION 1

A customer wants to add a new flash-based tier to an existing HDT pool. You refer to the Tier properties chart to determine if the workload in a disk-based HDT pool is a good candidate for adding a new and higher flash tier.

In this scenario, what does the chart tell you?

- A. The utilization line starts at a low level and gradually climbs to a high spike at the extreme right-hand side.
- B. The utilization line starts at a medium level on the left side and fails away slowly.
- C. The utilization line stays at a high level until half way across the chart then drops sharply.
- D. The utilization line starts at a high level on the left side then drops away sharply.

Correct Answer: A

QUESTION 2

Which two conditions will cause high Cache Write Pending on a VSP G8000? (Choose two.)

- A. over-utilized external storage
- B. high port utilization
- C. inadequate WAN bandwidth for TrueCopy Asynchronous
- D. attempting to write to a RAID group at a rate beyond its ability

Correct Answer: AD

QUESTION 3

A VSP G800 customer has one HDT pool with three tiers and they report a high frequency of relocations up and down between Tier 1 and Tier 2, affecting the HDT pool performance.

Which two actions will help solve the issue? (Choose two.)

- A. Decrease the monitoring period of the HDT pool.
- B. Increase the size of the grey zone between Tier 1 and Tier 2.
- C. Change the HDT pool setting from Period mode to Continuous mode.
- D. Increase the size of Tier 2.

Correct Answer: CD

QUESTION 4

A large bank is completing a capacity planning exercise and wants to upgrade their current VSP G1000 to properly support their online banking application for the next 18 months. The IT department wants to know where they should invest to achieve the transactional Service Level Objective (SLO).

In this scenario, which three recommendations would you make? (Choose three.)

- A. Measure throughput of all SAN directors.
- B. Export two months of Performance Monitor data.
- C. Measure the storage resource utilizations.
- D. Request a statement of growth requirements.
- E. Measure the existing I/O profile.

Correct Answer: BCD

References: https://knowledge.hitachivantara.com/Documents/Storage/VSP_G1X00_and_VSP_F1500/80-06-4x/Product_Overview/04_Software_solution_examples

QUESTION 5

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

Correct Answer: BD

QUESTION 6

A customer has a VSP G800 storage system with an HDT pool with internal SAS drives and a virtualized third-party array using SATA RAID 6. The virtualized array is connected to the VSP G800 using four 8 Gbps FC paths. The customer reports performance problems on an OLTP application deployed on a virtualized server using the HDT pool.

What are two reasons for this problem? (Choose two.)

- A. The workload includes significant random writes to SATA over RAID 6.
- B. The tier relocation is not assisting the OLTP application.
- C. The size of Tier 1 is not sufficient to accumulate all of the hot pages.

D. The speed of the FC links is insufficient.

Correct Answer: AD

QUESTION 7

What are two appropriate criteria for evaluating a batch job performance? (Choose two.)

- A. elapsed time and/or throughput (MBs, IOPS)
- B. storage response time
- C. customer requirements
- D. host initiators utilization

Correct Answer: AB

QUESTION 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.

Correct Answer: AB

References: <https://manualzz.com/doc/13486869/optimize-hitachi-storage-and-server-platforms-in-vmware-v...>

QUESTION 9

Your VSP G1000 customer has an HDP pool with 600 GB drives and they need more IOPS in the pool. Which action will satisfy the requirement?

- A. Spread the pool over storage tiers.
- B. Add 1.2 TB drives to the pool.
- C. Add more 600 Gb drives of the same type.
- D. Create a new HDP pool.

Correct Answer: A

QUESTION 10

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

Correct Answer: D

QUESTION 11

What are two benefits of placing transaction log files on RAID 1+0 disks for Microsoft SQL Server databases rather than RAID 5 disks? (Choose two.)

- A. Multiple transaction log files are supported.
- B. Faster recovery after disk hardware failure is realized.
- C. Capacity utilization rates are improved.
- D. Microsoft recommendations are followed.

Correct Answer: AB

QUESTION 12

Which three statements are true regarding the Hitachi external storage architecture? (Choose three.)

- A. Enabling Cache Mode increases exposure to problems with high Cache Write Pending.
- B. Enabling Cache Mode allows destaging asynchronously from host I/O.
- C. Enabling Cache Mode always improves performance.
- D. A System Option mode can force in sequence destaging even when destaging asynchronously.
- E. Disabling Cache Mode for an external LDEV eliminates the use of cache.

Correct Answer: ABD

