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Hitachi

HCE-3700

Hitachi Vantara Certified Expert - Performance Architect



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Question: 167

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

Answer: A,B

Question: 168

You are evaluating storage system performance for an interactive workload.

What are three appropriate criteria in this situation? (Choose three.)

- A. customer requirements
- B. throughput (MBs)
- C. elapsed time
- D. storage system response time
- E. resource utilization (% busy)

Answer: B,C,D

Question: 169

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: 170

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: 171

How many back-end disk operations are normally required to complete a small block random write operation to a LUN on a RAID 5 group?

- A. 2
- B. 3
- C. 4
- D. 6

Answer: C

Question: 172

In a VSP G200 system, what are two advantages of RAID 1+0 compared to RAID 5/6 for random write workloads? (Choose two.)

- A. RAID 1+0 provides more useable capacity per for the same number of drives.
- B. RAID 1+0 has less processing overhead.
- C. Disk virtualization is lower.
- D. RAID 1+0 has more efficient pre-fetch operation.

Answer: A,C

Question: 173

Which three functions are performed by a VSP G1000 Virtual Storage Director (VSD)? (Choose three.)

- A. It executes host I/O requests.
- B. It calculates parity.
- C. It manages cache segment usage.
- D. It moves data to/from cache.
- E. It executes software such as HDP or copy products.

Answer: A,C,D

Question: 174

Which two statements are true about the Active Flash feature on the VSP Midrange? (Choose two.)

- A. The Active Flash feature of Hitachi Dynamic Tiering monitors page access frequency in real-time, and immediately promotes pages that suddenly become busy.
- B. The Active Flash feature can be enabled on any HDT pool as long as Tier 1 of the Dynamic Tiering pool is composed of SSD or FMD drives.
- C. The Active Flash feature can be enabled on any HDP pool as long as the pool is comprised of SSD or FMD drives.
- D. The Active Flash feature of Hitachi Dynamic Tiering monitors page access frequency in real-time, and promotes pages based on a predefined schedule.

Answer: A,B

Explanation:

References: https://knowledge.hitachivantara.com/Documents/Management_Software/SVOS/8.2/Volume_Management_-_VSP_G1x00%2C_F1500/Tiered_Storage/02_About_active_flash

Question: 175

Which two port options are bi-directional on a VSP G800? (Choose two.)

- A. Replication-Target (RCU)
- B. Open Target (TAR)
- C. External Target (eLUN)
- D. Mainframe (FICON)

Answer: A,B

Explanation:

References: https://knowledge.hitachivantara.com/Documents/Management_Software/Configuration_Manager_REST_API/8.5.2/REST_API/Volume_allocation

Question: 176

On a VSP G1000, the maximum I/O Request Limit for an external initiator port has been exceeded.

What are two consequences of this activity? (Choose two.)

- A. New writes will back up into the VSP G1000 cache.
- B. The host will see rapidly rising response times per request.
- C. The host will see a minor change in response times.
- D. The host will not be able to process new I/O requests.

Answer: C,D

Question: 177

You are partitioning a VSP G1000 with eight VSDs and 1024 GB cache, and are creating an 80 GB CLPR.

In this scenario, how much cache does each VSD blade initially reference in the CLPR?

- A. 10 GB
- B. 80 GB
- C. 640 GB
- D. 1024 GB

Answer: D

Explanation:

References: <https://support.hitachivantara.com/download/epcra/rd80124.pdf>

Question: 178

You are sizing a VSP G4000 for a customer who requires good performance but has a very limited budget. You now must select a cache size between 64 GB and 128 GB.

Which three conditions will affect your selection in this situation? (Choose three.)

- A. The customer plans to use Cache Logical Partitions (CLPRs)
- B. The customer environment is mainly VMware.
- C. The number of LDEVs that are available.
- D. The customer will use Shadow Image.
- E. The number of connected hosts.

Answer: A,C,E

Question: 179

A customer using a small block interactive workload on a VSP G200 complains about poor application performance. They use an FC SAN which consists of 8 Gbps and 16 Gbps FC switches.

What are two causes of the performance issue? (Choose two.)

- A. Front-end ports of the VSP G200 are connected to the 8 Gbps FC switch.
- B. The front-end FC ports are used by another bandwidth-intensive application.
- C. The host HBA has an insufficient queue depth setting.
- D. The multi-pathing software uses round robin balancing algorithm.

Answer: B,C

Question: 180

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: 181

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: 182

Which two statements are true regarding HDP pools? (Choose two.)

- A. Using the largest possible pools is a recommended practice.
- B. Exposure to failure and recovery from failure must be considered when recommending the maximum size of a pool.
- C. HDP pools can be used for sizing HDT pools.
- D. Tier migration is based on performance and space capacity.

Answer: A,C

Question: 183

A VSP G800 HDT pool contains FMDs, NL-SAS drives, external storage with 15K 600 GB SAS drives, and external storage with 10K 900 GB SAS drives.

Which tier level contains the NL-SAS drives in this configuration?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: A



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