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Vendor: Hitachi

Exam Code: HH0-130

Exam Name: Hitachi Data Systems Storage Foundations

Version: Demo

QUESTION: 1

A drive within a HUS system reaches its read error threshold. What will happen to the data on that drive?

- A. Data from the failing drive must be restored from backup.
- B. Data from the failing drive will be locked until the failing drive is replaced.
- C. Data from the failing drive will be copied to a suitable spare if one is available.
- D. The drive is powered off immediately and the data is reconstructed from parity.

Answer: C

QUESTION: 2

What are two characteristics of Dynamic Sparing on HUS systems? (Choose two.)

- A. Spares can be in any drive slot.
- B. Spares must be in the first expansion tray.
- C. Spares must be in a high density expansion tray.
- D. After a drive replacement the new drive is the spare by default.

Answer: A, D

QUESTION: 3

A customer wants to virtualize a new SATA modular storage array and must ensure that virtualizing the new array will have no effect on internal Tier 1 applications on their VSP. What should the customer do?

- A. Install additional RAID Groups for the Tier 1 applications.
- B. Create a cache logical partition for the new storage.
- C. Configure additional initiator ports for the new storage.
- D. Create a system logical partition for the Tier 1 application.

Answer: B

QUESTION: 4

A customer is deploying a new OLTP database on a VSP that will have a high performance requirement. They are considering using SSD flash drives, but would like to avoid putting the entire database on SSD. SAS drives will be sufficient for the majority of the workload. Which Hitachi product would you recommend?

- A. Hitachi Tuning Manager
- B. Hitachi Dynamic Tiering
- C. Hitachi Dynamic Provisioning
- D. Hitachi Tiered Storage Manager

Answer: B

QUESTION: 5

What are two results when license keys expire? (Choose two.)

- A. No new configuration settings may be performed.
- B. Configuration changes are permitted for a period of 24 hours after expiration.
- C. Configuration settings that were made before the temporary license key expired remain in effect and cannot be modified.
- D. Configuration settings that were made before the temporary license key expired will revert back to their original settings.

Answer: A, C

QUESTION: 6

Which two functions are performed by the Virtual Storage Director (VSD) on the VSP? (Choose two.)

- A. It controls I/O operations for the currently owned LDEVs.
- B. It queries all user data to verify that data is placed on the appropriate tier.
- C. It executes the code for target, external, BED, initiator and RCU target modes.
- D. It enables hardware based virtualization by allowing SAN connectivity directly to the external director ports.

Answer: A, C

QUESTION: 7

A HUS VM customer requires a tool set to gather and report on application service level objectives and storage performance. Which package should the customer use?

- A. HUS VM Virtual Partition Manager Package

- B. HUS VM Analytics Package
- C. HUS VM Mobility Package
- D. HUS VM Local Protection Package

Answer: B

QUESTION: 8

What are two advantages of using Hitachi Dynamic Provisioning (HDP) on HUS systems? (Choose two.)

- A. It pre-allocates the pools for new DP volumes.
- B. It enables efficient use of disk space.
- C. It accelerates the creation of volumes.
- D. It enables dynamic migration of data between storage tiers.

Answer: B, C

QUESTION: 9

A customer is evaluating enterprise storage arrays from various vendors and requires that their mission critical data must be encrypted while at rest. What is required on the VSP to satisfy this requirement?

- A. a license key
- B. 2.5" self-encrypting drives for the capacity required
- C. a key-generating encryption option on each SAS link
- D. encryption Back-End Directors (eBEDs) for dynamic encryption

Answer: A

QUESTION: 10

What are two core functions of Hitachi Tuning Manager? (Choose two.)

- A. It extracts performance data for analysis.
- B. It displays configuration and capacity data.
- C. It migrates data based on storage performance.
- D. It distributes workloads across paths automatically.

Answer: A, B

QUESTION: 11

Which HUS VM storage system function would be used to pro-actively resolve a hard disk drive problem once its error threshold is exceeded?

- A. Background Data Restoration
- B. Correction Copy
- C. Dynamic Sparing
- D. Correction Access

Answer: C

QUESTION: 12

Which two products can be used to script ShadowImage replication functions for a HUS system? (Choose two.)

- A. Hitachi Data Replicator (HDR)
- B. RAID Manager/CCI
- C. Storage Navigator Modular 2 (SNM2) CLI
- D. Business Continuity Manager (BCM)

Answer: B, C

QUESTION: 13

Which information can you obtain with Storage Navigator 2 on a VSP? (Choose two.)

- A. license keys
- B. parity groups
- C. replication consistency groups
- D. HDP page space allocation

Answer: A, B

QUESTION: 14

A customer wants to replicate a Hitachi Content Platform (HCP) to a backup location. Which method does the HCP use to ensure data integrity?

- A. Common Data Integrity Method
- B. Object-oriented replication
- C. First-In-First-Out algorithm
- D. Block-oriented replication

Answer: B

QUESTION: 15

What are two features of the Hitachi NAS Platform? (Choose two.)

- A. built-in RAID 6 storage
- B. SAN-based file serving
- C. active-active clustering support
- D. FPGA optimized for data movement

Answer: C, D

QUESTION: 16

What are two reasons why a customer would want to use Host Groups on a HUS system? (Choose two.)

- A. to manage host access to the volumes
- B. to unify logical units into larger volumes
- C. to enforce consistency between TrueCopy volumes
- D. to prevent hosts writing disk signatures on volumes which do not belong to them

Answer: A, D

QUESTION: 17

A customer would like to deploy a new HUS system with Hitachi Dynamic Provisioning (HDP). They would like to control the amount of over provisioning from their HDP Pools by not allowing more DP- Vols to be created beyond a certain percentage. Which over-provisioning threshold can an administrator configure to achieve this?

- A. Early Alert

- B. Warning
- C. Limit
- D. Depletion Alert

Answer: C

QUESTION: 18

Which three actions can Hitachi Tuning Manager perform when an alarm is triggered? (Choose three.)

- A. Send an SMS.
- B. Notify users by e-mail.
- C. Send SNMP traps.
- D. Dial out to the support center.
- E. Execute commands.

Answer: B, C, E

QUESTION: 19

Which RAID level would provide optimal performance for sequential read I/O while also providing data protection?

- A. RAID 0 (8D)
- B. RAID 6 (6D+2P)
- C. RAID 5 (7D+1P)
- D. RAID 1 (2D+2D)

Answer: C

QUESTION: 20

Which type of protocol is used by the Back-End Directors (BEDs) in the VSP?

- A. FC
- B. SAS
- C. FCoE
- D. iSCSI

Answer: B

QUESTION: 21

A customer has just purchased a HUS system that is to be used as external storage behind a VSP. Which condition must be met for volumes to be virtualized?

- A. Volumes must be at least 100 GB in size.
- B. Volumes must be mapped to VSP external ports.
- C. Volumes must be formatted with the external attribute.
- D. Volumes must be from RAID-5 parity groups.

Answer: B

QUESTION: 22

A company is redesigning their storage management process for their distributed storage environment. Their goal is to create a flexible storage management infrastructure which will manage all of their storage assets. Which two benefits will they receive by using Hitachi Device Manager?

(Choose two.)

- A. basic performance monitoring
- B. basic replication management capabilities
- C. centralized management of Fibre Channel switches
- D. centralized management of distributed storage resources

Answer: B, D

QUESTION: 23

Which method does a VSP use to protect new write data and ensure data integrity?

- A. Only write I/O is duplexed in cache.
- B. Read and write I/O is duplexed in cache.
- C. Only write I/O is duplexed in control memory.
- D. Read and write I/O is duplexed in control memory.

Answer: A

QUESTION: 24

A customer would like to "scale up" their compute blade systems as well as "scale out" to increase the number of cores per system. Which Hitachi Compute Blade technology would give them this feature?

- A. Multi-blade SMP (Symmetric Multi-Processing) technology
- B. LPAR (Logical PARTitioning) technology
- C. Blade cold stand-by technology
- D. Hybrid I/O technology

Answer: A

QUESTION: 25

Which protocol is used by Storage Navigator Modular 2 to communicate with a HUS system?

- A. IP
- B. FC
- C. FCIP
- D. iSCSI

Answer: A

QUESTION: 26

After a performance analysis, a customer decides to move volumes within their HUS system to a different RAID Group using Modular Volume Migration. Which two statements regarding Modular Volume Migration are correct? (Choose two.)

- A. The primary and secondary volumes must be owned by the same controller.
- B. The migration can be managed with Storage Navigator Modular 2.
- C. The RAID Groups must have the same RAID level.
- D. The copy pace can be adjusted.

Answer: B, D

QUESTION: 27

What are three valid HUS VM RAID disk configurations? (Choose three.)

- A. RAID 0 - 4D
- B. RAID 1 - 2D+2D
- C. RAID 5 - 4D+1P
- D. RAID 5 - 7D+1P
- E. RAID 6 - 14D+2P

Answer: B, D, E

QUESTION: 28

What are two advantages of NAS compared to SAN-based storage? (Choose two.)

- A. NAS solutions do not require HBAs.
- B. NAS solutions are optimized for block-level access.
- C. NAS solutions offer multiple protocols for file serving.
- D. NAS solutions provide more efficient storage capacity utilization.

Answer: A, C

QUESTION: 29

A customer wants to minimize application downtime from data corruption, outages and maintenance. Which two features of Hitachi Copy-on-Write Snapshot facilitate these requirements? (Choose two.)

- A. continuous data journaling for rapid restore
- B. protection from P-Vol Parity Group failures
- C. non-disruptive backups from V-Vols
- D. periodic point-in-time copies for rapid restore

Answer: C, D

QUESTION: 30

Your customer is implementing Hitachi Universal Replicator and wants to know about Journal Volumes. Which two statements are correct? (Choose two.)

- A. Journal Volumes in a Journal Group must use the same RAID type.
- B. Journal Volumes must be Open-V.

- C. Journal Volumes must be mapped to the host performing the replication.
- D. Journal Volumes can be added dynamically to the Journal Group.

Answer: B, D

QUESTION: 31

What is an advantage of TrueCopy Synchronous operation?

- A. It uses journaling to manage bandwidth.
- B. It is supported over longer distances.
- C. It has a reduced Recovery Point Objective.
- D. It has no impact on host performance.

Answer: C

QUESTION: 32

Which two statements describe the HUS system? (Choose two.)

- A. It natively supports NFS and CIFS.
- B. It can be integrated with a HNAS cluster.
- C. It natively supports FC and iSCSI.
- D. It natively supports FC on one controller and iSCSI on the other.

Answer: B, C

QUESTION: 33

Which Hitachi Dynamic Link Manager load balancing algorithm should be used for sequential I/O?

- A. Auto Path
- B. Round Robin
- C. Priority Path
- D. Extended Least I/O

Answer: D

QUESTION: 34

Which Hitachi Device Manager feature will help you organize storage resources in a hierarchical structure?

- A. Host Groups
- B. Migration Groups
- C. Logical Groups
- D. Storage Groups

Answer: C

QUESTION: 35

What is required for ShadowImage replication on HUS systems?

- A. Data Pool
- B. Bitmap LU
- C. Command Device
- D. Differential Management LU

Answer: D

QUESTION: 36

What does the Hitachi Dynamic Link Manager "Path Health Check" feature provide?

- A. It detects link issues before data I/O is affected.
- B. It automatically removes the paths where an intermittent error is occurring.
- C. It monitors load balancing.
- D. It automatically places a recovered path back online.

Answer: A

QUESTION: 37

A storage administrator wants to set up Hitachi Universal Replicator to replicate data from site A to site B. Observing redundancy requirements, what is the minimum total number of ports that should be set to the RCU target?

- A. 1

- B. 2
- C. 4
- D. 8

Answer: C

QUESTION: 38

Which three storage metrics can be obtained with Hitachi Storage Capacity Reporter? (Choose three.)

- A. storage system capacity
- B. host capacity
- C. port capacity
- D. cache capacity
- E. storage system utilization

Answer: A, B, E

QUESTION: 39

Which two Storage Navigator operations can be performed on the HUS VM? (Choose two.)

- A. creating concatenated RAID Groups
- B. defining LDEV paths in a mainframe environment
- C. mapping LDEVs to an Open Systems environment
- D. setting topology on Fibre Channel ports

Answer: C, D

QUESTION: 40

Which three actions can be performed with Storage Navigator 2 on a VSP? (Choose three.)

- A. Define migration policies.
- B. Provision the storage system.
- C. View system alerts.
- D. Acquire logs.
- E. Set System Option Modes.

Answer: B, C, D

QUESTION: 41

Your customer wants a discovery solution that will search across multiple platforms and they are considering the Hitachi Data Discovery Suite (HDDS). Which three platforms are supported by HDDS? (Choose three.)

- A. Celerra
- B. NetApp
- C. HNAS
- D. HCP
- E. Isilon

Answer: B, C, D

QUESTION: 42

Which three elements are integrated in the Hitachi Converged Platform for Oracle Database solution? (Choose three.)

- A. HUS150
- B. Oracle Database license
- C. Hitachi Compute Blade 2000
- D. Hitachi Command Suite
- E. Hitachi NAS Platform

Answer: A, C, D

QUESTION: 43

Which two main features does the HUS VM have in common with the VSP? (Choose two.)

- A. support for up to 4 Virtual Storage Directors
- B. support for native FC and FICON channel connectivity
- C. support for Universal Volume Manager
- D. support for Hitachi Dynamic Tiering

Answer: C, D

QUESTION: 44

Your customer has purchased Hitachi Tiered Storage Manager to migrate data between their VSP and HUS systems based on tiering policies. Which condition must be met before implementing their tiering policies?

- A. HUS volumes must be virtualized behind the VSP.
- B. ShadowImage must be installed on both the VSP and HUS systems.
- C. TrueCopy must be installed on both the VSP and HUS systems.
- D. HUS volumes must be defined as Tier 2 volumes to the VSP.

Answer: A

QUESTION: 45

Which protocol does the HUS VM back-end architecture use?

- A. SATA
- B. SAS
- C. FC
- D. IP

Answer: B

QUESTION: 46

Which two transport methods can HiTrack use to report SIMs to the Hitachi Data Systems Global Support Center? (Choose two.)

- A. FTP
- B. HTTPS
- C. HTTP
- D. SNMP

Answer: A, B

QUESTION: 47

Which component of the Hitachi Data Protection Suite software communicates with all agents in the CommCell to initiate data protection?

- A. Principal Media Agent
- B. CommManager
- C. Command Director
- D. CommServe

Answer: D

QUESTION: 48

Which component interconnects the DKCs within a VSP?

- A. Fibre Switch (FSW)
- B. Virtual Storage Director (VSD)
- C. Grid Switch (GSW)
- D. Back-End Director (BED)

Answer: C

QUESTION: 49

Your customer wants to optimize overall performance of their HUS systems. They are using Performance Monitor to obtain performance information on several storage system components. Which two performance metrics should be examined? (Choose two.)

- A. ORM response time
- B. HDD utilization
- C. average seek times
- D. write pending rate

Answer: B, D

QUESTION: 50

You are recommending a Hitachi Data Ingestor (HDI) solution to your customer for their remote offices. Which two features describe an HDI? (Choose two.)

- A. It uses remote storage provided by HCP. B. It uses remote storage provided by HNAS.

- C. It migrates content to a HCP and maintains local link to content.
- D. It migrates content to a HNAS and maintains local link to content.

Answer: A, C

QUESTION: 51

Which two software components allow users to configure TrueCopy on HUS systems?
(Choose two.)

- A. RAID Manager/CCI
- B. RAID Manager/raidcom
- C. Hitachi Dynamic Replicator
- D. Storage Navigator Modular 2 GUI

Answer: A, D

QUESTION: 52

A ShadowImage pair is created using basic volumes. The P-Vol contains no user data.
What will occur when the "paircreate" command is issued?

- A. The entire contents of the P-Vol is copied to the S-Vol.
- B. Only the basic OS format information is copied from the P-Vol to the S-Vol.
- C. The volume status is "PAIR" immediately.
- D. The pair creation will fail.

Answer: A

QUESTION: 53

A customer has licensed Hitachi Replication Manager in an Open Systems environment. From which source does Replication Manager get its configuration information?

- A. a host running the Device Manager Agent
- B. a host running the Replication Manager Agent
- C. a Device Manager server
- D. a host running the RAID Agent

Answer: C

QUESTION: 54

What is the replication method used by Hitachi Dynamic Replicator software?

- A. host-based synchronous
- B. controller-based asynchronous
- C. host-based asynchronous
- D. controller-based synchronous

Answer: C

QUESTION: 55

A company is using Hitachi Tiered Storage Manager to manage multiple storage systems configured as external storage behind a VSP. Which two benefits does Hitachi Tiered Storage Manager provide? (Choose two.)

- A. It automatically populates storage tiers using Hitachi Device Manager profiles.
- B. It provides non-disruptive, completely transparent data migration.
- C. It is able to migrate to LDEVs that are larger than the source.
- D. It interfaces with Hitachi Device Manager to create storage tiers based on CIM profiles.

Answer: B, C

QUESTION: 56

A VSP storage administrator needs to evaluate the existing storage infrastructure and establish a baseline to ensure optimal allocation of storage resources now and in the future. How does Hitachi Command Director help achieve this?

- A. It migrates heavily accessed data to high performance tiers.
- B. It can monitor application SLAs based on storage capacity, performance and tier requirements.
- C. It allows the administrator to manage all the SAN and NAS components within the data center from a single console.
- D. It will throttle the requirements of the host based on available storage resources.

Answer: B

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