Vendor: Hitachi

Exam Code: HQT-4160

Exam Name: Hitachi Vantara Qualified Professional - VSP 5000 Series Installation

Version: DEMO

QUESTION 1
How many Channel Boards (CHBs) can be installed in a VSP 5600 with two CBX?

A. 8
B. 12
C. 16
D. 24

Answer: C
Explanation:
In a VSP 5600 system configured with two Controller Boxes (CBXs), you can install up to 16 Channel Boards (CHBs) in total. Each CBX can accommodate up to 8 CHBs, resulting in a combined maximum of 16 CHBs for the system. This configuration allows for scalable host connectivity options, supporting various protocols such as Fibre Channel, iSCSI, and FICON.

QUESTION 2
Which two manuals should be used when troubleshooting on a VSP 5000 system? (Choose two.)

A. Troubleshooting manual
B. Service Guide
C. Installation manual
D. Maintenance manual

Answer: AD
Explanation:
Troubleshooting manual
This manual provides detailed procedures and steps for diagnosing and resolving issues on the VSP 5000 system.

Maintenance manual
The Maintenance manual contains instructions and information needed for maintenance activities, including troubleshooting steps and part replacement guidance.

QUESTION 3
A customer wants to upgrade a diskless VSP 5100 to a VSP 5500. Which three types of components will be added during the upgrade? (Choose three.)

A. Controllers (CTLs)
B. Interconnect Switches (ISWs)
C. Channel Boards (CHBs)
D. Hitachi Interconnect Edges (HIEs)
E. Hitachi Service and Network Box (HSNBX)

Answer: ABC
Explanation:
Controllers (CTLs)
Upgrading from a two-controller (2N) VSP 5100 to a four-controller (4N) VSP 5500 requires adding two additional controller blades, doubling the total from two to four to deliver the higher I/O and cache capacity of the 5500.

Interconnect Switches (ISWs)
The VSP 5500 introduces external PCIe “node interconnect switches” - 1 U switch chassis that

provide the high-speed fabric and management links between controller pairs. These ISW modules must be added to interconnect the expanded controller set in a 4-node configuration.

Channel Boards (CHBs)
Each new controller requires its own set of front-end channel boards for host connectivity. When you add two controllers, you also add their associated CHBs (FC, iSCSI, FICON, etc.) to furnish the additional host ports on the VSP 5500.

QUESTION 4
Which two components are different between VSP 5500 and VSP 5600 systems? (Choose two.)

A. Interconnect Switch (ISW)
B. Controller Board
C. Hitachi Interconnect Edge (HIE)
D. DKC Power Supply (DKCPS)

Answer: BD
Explanation:
Controller Board
The VSP 5600 controllers use upgraded blades featuring dual 10-core Cascade Lake CPUs and two Compression Accelerator Modules per controller, hardware not present on the VSP 5500 controllers, delivering significantly higher processing and ADR offload capabilities.

DKC Power Supply (DKCPS)
A non-disruptive Data-in-Place upgrade from VSP 5500 to VSP 5600 requires swapping each VSP 5500's DKCPS units for the VSP 5600-specified power supplies, as the newer models use a different PSU design.

QUESTION 5
Which three statements are correct regarding the cache configuration of VSP 5000 systems with two controller boxes (CBX)? (Choose three.)

A. All the DIMMs must be of the same type.
B. CMG0 or CMG1 can be used as default cache.
C. CMG0 must be used as default and CMG1 is optional.
D. The cache only support 128 GB DIMMs.
E. Each controller pair (CTL1-CTL1, CTL2-CTL2) must have the same cache capacity.

Answer: ACE
Explanation:
All the DIMMs must be of the same type.
Cache DIMMs are installed in groups (CMGs) of four, and all DIMMs within each group must be identical in capacity and speed to ensure correct interleave and performance.

CMG0 must be used as default and CMG1 is optional.
On each controller, you populate the CMG0 slots first - this becomes the active (default) cache and only after CMG0 is filled can you populate CMG1 for additional capacity.

Each controller pair (CTL1-CTL1, CTL2-CTL2) must have the same cache capacity.
Controllers operate in mirrored pairs and require symmetric cache configurations so that each side of the pair holds identical cache capacity for failover and data integrity.

QUESTION 6
A VSP 5500 system is installed with a pair of Controller Boxes (CBXs). How many LAN cables are needed to attach controllers to the switch/HUB located on the Hitachi Service and Network Box-0 (HSNBX-0)?

A. 2
B. 4
C. 6
D. 8

Answer: A
Explanation:
Only the "LAN board 1" management ports on each of the two controllers in CBX-0 connect to the switch/hub in HSNBX-0 - one cable per controller - for a total of two LAN cables.

QUESTION 7
Which statement is correct regarding the Interconnect Switches (ISWs) on VSP 5000 systems?

A. ISWs are switches that provide redundancy for data path and they are only used when the number of CBX pairs is higher than two.
B. ISWs are switches that route data between nodes using Hitachi Interconnect Edge and X-Path cables, and they are located on the Hitachi Service and Network Boxes (HSNBXs).
C. ISWs are switches that route data between nodes and they are located on each controller of the node.
D. ISWs are standalone, optional switches than can be used for both network and data path.

Answer: D
Explanation:
The Interconnect Switches on a VSP 5000 are delivered as standalone 1 U switch chassis that house both the PCIe "interconnect" modules (for routing data between controller nodes) and an Ethernet switch (for management/network traffic), so they serve both network and data - path roles.

QUESTION 8
How many Accelerator Compression Modules are installed in a VSP 5600?

A. three per controller
B. two per CBX
C. two per controller
D. two per system

Answer: C
Explanation:
Each controller in the VSP 5600 system is equipped with two Compression Accelerator Modules.

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