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Hitachi Vantara Qualified Professional VSP 5000 Series Installation HQT-4160 Exam

Exam Type
Qualification

Format
Proctored, closed book exam

Credential
Hitachi Vantara Qualified Professional - VSP 5000 Series Installation

Validity 3 years

Delivery
[Kryton Webassessor System*](#)

Questions 35

Passing Score 65%

Duration 60 minutes

Cost
US \$100 or equivalent in local currency (plus local tax, depending on location)

Supporting Material
• 1090PI - Installing and Configuring the Hitachi VSP 5000 Series (5 day-ILT)

This test is designed for Hitachi Vantara employees and partners who install Hitachi Virtual Storage Platform (VSP) 5000 series systems. The test will validate that the successful candidate has knowledge and skills in installing, configuring and supporting VSP 5000 series systems at customer sites. This includes strong knowledge of the systems' hardware and associated program products, thorough understanding of installation and configuration procedures, and associated support activities. This test covers Hitachi Virtual Storage Platform models VSP 5100(H), VSP 5500(H), VSP 5200(H) and VSP 5600(H).

Audience: Hitachi Vantara Employee and Partner Installation Professionals

Hitachi VSP 5000 series installation professionals should have strong knowledge and skills in installing and supporting storage systems deployed as part of VSP 5000 series solutions implementation. They perform pre-installation checks and install, configure and test the systems so they can be handed over in an operational state to customers. They also provide post-installation services, including support, maintenance, updates and upgrades, and have knowledge of problem-determination and incident-resolution procedures, tools and techniques.

Test Objectives	
Section 1	System Architecture
1.1	Describe the different VSP 5000 models and their specifications.
1.2	Describe the VSP 5000 systems architecture, their components and their functions.
1.3	Describe the front-end design and layout of VSP 5000 systems and the supported Channel Boards (CHBs).
1.4	Describe the back-end design and layout of VSP 5000 systems and the supported Disk Adapters (DKAs).
Section 2	System Pre-Installation and Installation
2.1	Describe the VSP 5000 storage systems pre-installation procedures and documentation.
2.2	Describe the VSP 5000 disk controllers (DKCs) interconnections.
2.3	Describe the "New Installation" procedure for VSP 5000 storage systems and when it is appropriate to use.
2.4	Describe the VSP 5000 storage systems network settings.
2.5	Describe the VSP 5000 storage microcode upgrade procedures.
Section 3	System Configuration
3.1	Describe the key steps involved in the installation of VSP 5000 storage systems.
3.2	Describe how to create Parity Groups on VSP 5000 storage systems.

* Depending on the location and course delivery format, this closed-book, proctored qualification test may also be offered and administered by the instructor at the conclusion of the supporting course.

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Hitachi HQT-4160 Exam Syllabus Topics:

Section	Objectives
System Architecture	- Back-end Design and Disk Adapters (DKA)
	- System Architecture and Components
	- Front-end Design and Channel Boards (CHB)
	- VSP 5000 Models and Specifications
	- Network Settings Configuration
System Pre-Installation and Installation	- New Installation Procedures
	- Pre-installation Procedures and Documentation
	- Microcode Upgrade Procedures
	- Disk Controller (DKC) Interconnections

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Hitachi Vantara Qualified Professional - VSP 5000 Series Installation Sample Questions (Q22-Q27):

NEW QUESTION # 22

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

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

Answer: B

Explanation:

Each controller in the VSP 5600 system is equipped with two Compression Accelerator Modules.

NEW QUESTION # 23

Which two part replacements in a VSP 5000 system require blocking the controller? (Choose two.)

- A. Hitachi Interconnect Edge (HIE)
- **B. Cache DIMM**
- C. Cache Flash Module (CFM)
- **D. Controller PCB**

Answer: B,D

Explanation:

Controller PCB

Replacing the Controller PCB requires blocking the controller to ensure system integrity and prevent data loss during the hardware change.

Cache DIMM

Cache DIMMs are part of the controller's critical memory subsystem, so the controller must be blocked before replacing any cache DIMMs to avoid corruption and ensure a safe replacement process.

NEW QUESTION # 24

What distinguishes the back-end design of VSP 5000 systems from traditional storage systems?

- A. The use of solid-state drives only
- B. The direct connection to cloud storage
- C. The absence of any physical drives
- **D. The use of Disk Adapters (DKAs) for enhanced data management**

Answer: D

Explanation:

In the Hitachi VSP 5000 storage system:

Disk Adapters (DKAs) are specialized components that manage communication between the storage controllers and physical disks. DKAs provide:

- Efficient I/O routing
- Support for multiple disk types (SSD, SAS, etc.)
- RAID management and data distribution
- High performance and reliability compared to traditional storage systems that rely on simpler disk controllers.

This back-end architecture allows the VSP 5000 to handle large-scale, high-speed enterprise workloads while maintaining data protection and flexibility.

NEW QUESTION # 25

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

- A. 0
- B. 1
- C. 2
- D. 3

Answer: A

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.

NEW QUESTION # 26

The process of 'sparing' in VSP 5000 storage systems is designed to:

- A. Increase the processing power of the storage controllers
- B. Provide additional storage for user data
- C. Automatically replace failing drives to prevent data loss
- D. Serve as a backup for the storage management software

Answer: C

Explanation:

In the Hitachi VSP 5000 enterprise storage platform, sparing refers to reserving spare disk drives that automatically take over when an active drive fails or becomes faulty.

How it works:

The storage system keeps one or more hot spare drives available.

When a disk in a RAID group fails, the system automatically assigns the spare drive.

Data is rebuilt onto the spare drive using RAID redundancy.

The RAID group returns to a protected state, minimizing risk of data loss.

NEW QUESTION # 27

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