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NEW 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 (LEAVE A REPLY)
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: 2
Which document is essential to review before starting the pre-installation process for a VSP 5000 storage system?
A. The latest software compatibility list
B. The customer service plan
C. The installation site requirements
D. The annual maintenance contract
Answer: C (LEAVE A REPLY)
Before beginning the pre-installation process for a Hitachi VSP 5000, it is crucial to review the installation site requirements. This ensures that the physical environment is suitable for the system and meets operational standards. Key factors include:
Rack space and floor loading for the storage system

Power requirements (voltage, redundancy, and distribution)
Cooling and airflow specifications
Network connectivity requirements
Environmental considerations such as humidity, temperature, and dust control Reviewing this document helps avoid delays, prevent equipment damage, and ensures a smooth installation.

NEW QUESTION: 3
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: A,D (LEAVE A REPLY)
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.

NEW QUESTION: 4
Which two statements are correct regarding the "New Installation" procedure on a VSP 5000 system? (Choose two.)
A. You can perform the "New Installation" procedure if a newly installed system does not power on and the Hitachi Vantara Technical Support instructs you to do so.
B. Customer Engineers (CEs) should always perform the "New Installation" procedure when a new unit arrives at customer site.
C. Hitachi Vantara recommends not to perform the "New Installation" procedure on second-hand systems.
D. A customer can make a request to Hitachi Vantara Technical Support for a "New Installation" procedure, if they want to reinitialize a system entirely so all former data will be erased.
Answer: (SHOW ANSWER)
Hitachi Vantara recommends not to perform the "New Installation" procedure on second-hand systems.
Performing the "New Installation" procedure on used or second-hand systems is not recommended due to potential configuration, licensing, and warranty concerns.

A customer can make a request to Hitachi Vantara Technical Support for a "New Installation" procedure, if they want to reinitialize a system entirely so all former data will be erased.
Customers may request Technical Support to perform a "New Installation" to fully reinitialize the system, which erases all existing data and restores factory settings.

NEW QUESTION: 5
What distinguishes the back-end design of VSP 5000 systems from traditional storage systems?
A. The use of solid-state drives only
B. The absence of any physical drives
C. The direct connection to cloud storage
D. The use of Disk Adapters (DKAs) for enhanced data management
Answer: D (LEAVE A REPLY)
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: 6
Which management tool is used to create a Parity Group in a VSP 5000 system?
A. Maintenance Utility
B. Hitachi Command suite
C. Storage Navigator 2
D. Web Console
Answer: (SHOW ANSWER)
Storage Navigator 2 is the primary management tool used for configuring and managing storage on VSP 5000 systems, including the creation of Parity Groups.

NEW QUESTION: 7
You are installing a VSP 5000 system, it is connected to the power distribution and you now want to power it up. Which three steps should you perform as part of the Power On sequence?
(Choose three.)

A. Turn on the main breakers at the PDUs.
B. Check that the Power LED on all the CBXs are on.
C. Press the LAN Reset Button on CBX 0.
D. Turn on the PS ON/PS OFF switch on the HSNPANEL0.
E. Press the Power Button on each CBX.
Answer: A,D,E (LEAVE A REPLY)
Turn on the main breakers at the PDUs.
Power distribution must be enabled first by switching on the main breakers to supply electricity to the entire system.
Turn on the PS ON/PS OFF switch on the HSNPANEL0.
Activating the PS ON/PS OFF switch on the HSN panel supplies power to system components.
Press the Power Button on each CBX.
Each Controller Box (CBX) must be powered on individually by pressing its power button to start the system boot process.

NEW QUESTION: 8
Configuration of the _____ is crucial for integrating VSP 5000 systems with existing IT environments.
A. network settings
B. SVP Agent
C. user permissions
D. security protocols
Answer: A (LEAVE A REPLY)
Proper network configuration is essential when integrating the Hitachi VSP 5000 storage system into an existing IT infrastructure.
Network settings ensure that the storage system can communicate with hosts, switches, and management platforms within the organization's environment.
Key network configuration tasks include:
Assigning IP addresses to management interfaces
Configuring subnets and gateways
Setting up DNS and routing
Ensuring connectivity to SAN or Ethernet networks
Integrating with monitoring and management systems
Without proper network configuration, the storage system may not be accessible or manageable within the enterprise environment.

NEW QUESTION: 9
What is the maximum raw storage capacity of the VSP 5800 model?
A. 4 PB
B. 8 PB

C. 12 PB
D. 16 PB
Answer: C (LEAVE A REPLY)
The Hitachi VSP 5800 is part of the enterprise storage portfolio from Hitachi Vantara. It is designed for high-performance, large-scale enterprise storage environments such as mission- critical databases and large virtualization platforms.
The system supports a maximum raw storage capacity of approximately 12 petabytes (PB) in its configuration, allowing organizations to store extremely large datasets while maintaining high performance and reliability.

NEW QUESTION: 10
Which component in the VSP 5000 series is responsible for managing front-end connectivity?
A. Data Accelerator
B. Channel Board (CHB)
C. Disk Adapter (DKA)
D. Cache Memory
Answer: B (LEAVE A REPLY)
In the Hitachi VSP 5000 storage system:
The Channel Board (CHB) is responsible for front-end connectivity, meaning it manages the communication between the storage system and hosts or servers over interfaces like Fibre Channel or iSCSI.
It handles I/O requests, protocol processing, and ensures data flows correctly between external hosts and internal storage components.

NEW QUESTION: 11
What are the components involved in setting up a VSP 5000 system configuration? (Choose Two)
A. Parity Groups
B. User interfaces
C. Power units
D. Management software
Answer: A,D (LEAVE A REPLY)
When configuring a Hitachi VSP 5000 storage system, two key components are critical:
Parity Groups (A)
These are RAID-based groups of disks that store data and parity information.
They define how data is distributed and protected across physical drives.
Essential for creating storage pools and volumes for hosts.
Management Software (D)
Provides the interface to configure, monitor, and manage storage resources.
Tasks include:

Creating volumes/LUNs
Assigning storage to hosts
Monitoring health and performance
Managing replication and backups

NEW QUESTION: 12
A drive in a VSP 5000 series storage system is blocked. The microcode is now searching for a matching spare drive. What are the three requirements for the spare drive? (Choose three.)
A. It must have the same or a larger capacity.
B. It must have the same rotation speed (RPM).
C. It must be defined in the SVP Spare Drive Mapping table.
D. It must be of the same type (NL-SAS, SSD, FMD etc.).
E. It must be located in the same DKU.
Answer: (SHOW ANSWER)
It must have the same or a larger capacity.
The spare drive must be equal to or larger in capacity than the failed drive to ensure data can be fully rebuilt.
It must have the same rotation speed (RPM).
Matching rotation speed is required to maintain consistent performance and RAID group behavior.
It must be of the same type (NL-SAS, SSD, FMD etc.).
The spare drive must be the same drive type as the failed drive to ensure compatibility and maintain system reliability.

NEW QUESTION: 13
How is the internal SVP IP address set up on a VSP 5000 system?
A. Using the "Set IP Address" on the SVP GUI.
B. It is generated by the SSVP.
C. The Hitachi Distribution Centers pre-configure the same IP address on all new machines.
D. It must be set up by the customer's network administrator.
Answer: B (LEAVE A REPLY)
The internal SVP IP address on a VSP 5000 system is automatically generated by the SSVP (Service Support Processor) during system initialization and is not manually configured.

NEW QUESTION: 14
Which three ISO files are part of the Microcode Kit for the VSP 5000 series? (Choose three.)
A. Custom Tools (CT)

B. Documents and Programs (DP)
C. Maintenance PC (MPC)
D. Microcode (R9)
E. Open Source Software (OSS)
Answer: B,D,E (LEAVE A REPLY)
Documents and Programs (DP)
This ISO contains the necessary documentation and utility programs required for microcode installation and maintenance.
Microcode (R9)
This ISO provides the actual microcode (firmware) that is installed onto the VSP 5000 series hardware.
Open Source Software (OSS)
This ISO includes open source software components required by the system or referenced during installation.

NEW QUESTION: 15
What is the primary function of management software in VSP 5000 storage systems?
A. To physically secure the storage system
B. To manage and configure storage resources
C. To enhance the cooling efficiency of the system
D. To increase the storage capacity automatically
Answer: B (LEAVE A REPLY)
Management software for the Hitachi VSP 5000 is used to administer, monitor, and configure the storage environment.
Common management tools include platforms from Hitachi Vantara such as storage management suites that allow administrators to:
Create and manage storage volumes (LUNs)
Configure RAID groups and storage pools
Assign storage to hosts
Monitor system health and performance
Manage replication and data protection
Perform firmware updates and system configuration
These tools provide a centralized interface to control and optimize the storage system.

NEW QUESTION: 16
You need to perform a microcode upgrade on a VSP 5500H and you first want to backup the configuration. How do you accomplish this task?
A. Use Copy Config Files under the Initial Setting menu of the SVP GUI.
B. Connect a USB drive to the SVP and use Copy Config Files.
C. Use Copy Config Files under the Maintenance Utility.
D. Connect the maintenance laptop to the SVP port and use Copy Config Files.

Answer: A (LEAVE A REPLY)
To back up the configuration before a microcode upgrade on a VSP 5500H, you should use the
"Copy Config Files" option available under the Initial Setting menu in the SVP GUI. This ensures a proper backup of system settings and configuration.

NEW QUESTION: 17
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 (LEAVE A REPLY)
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.

NEW QUESTION: 18
A customer wants to upgrade a VSP 5500 to a VSP 5600. Which two actions are required for this upgrade? (Choose two.)
A. Replace all the controller boards.
B. Replace the CPUs on all the controller boards.
C. Replace all the Power Supplies with more powerful ones.
D. Replace all the memory DIMMs.
Answer: A,C (LEAVE A REPLY)
Replace all the controller boards.

Upgrading from VSP 5500 to VSP 5600 requires installing new controller boards, as the 5600 uses a different and more advanced controller architecture.
Replace all the Power Supplies with more powerful ones.
The upgrade also requires replacing the power supplies with models that are compatible with and can support the power requirements of the VSP 5600 controllers.

NEW QUESTION: 19
When installing a VSP 5000, it's essential to properly plan the _____ to avoid future connectivity issues.
A. network configuration
B. cooling paths
C. cable management
D. power distribution
Answer: A (LEAVE A REPLY)
During installation of the Hitachi VSP 5000 enterprise storage system, network configuration planning is essential to ensure proper communication between the storage array and other components in the IT infrastructure.
Key elements of network configuration include:
Assigning IP addresses for management interfaces
Configuring VLANs and subnets
Planning SAN connectivity (Fibre Channel / Ethernet)
Setting up redundant network paths
Ensuring compatibility with existing switches and hosts
Proper planning prevents common connectivity problems such as:
host access failures
misrouted traffic
management interface inaccessibility.

NEW QUESTION: 20
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: B,D (LEAVE A REPLY)
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.

NEW QUESTION: 21
You need to install an iSCSI channel board feature on a VSP 5500 system. Which two steps are required? (Choose two.)
A. Use the Maintenance Utility (Sub Panel) of the VSP GUI to assign ports to the added boards.
B. Physically install the pair of channel boards in any available slot.
C. Physically install the pair of channel boards in the appropriate slots.
D. Use the Maintenance Utility to add the boards to the system configuration.
Answer: C,D (LEAVE A REPLY)
Physically install the pair of channel boards in the appropriate slots.
Channel boards must be installed in specific, designated slots to ensure proper system recognition and redundancy.
Use the Maintenance Utility to add the boards to the system configuration.
After installation, the Maintenance Utility is used to logically add and configure the new channel boards within the system.

NEW QUESTION: 22
During the parts-replacement process on a VSP 5000 storage system, what is the recommended action before removing any component?
A. Documenting the serial number of the component
B. Isolating the power supply to the specific component
C. Notifying all connected users about the impending downtime
D. Ensuring the system is in maintenance mode
Answer: D (LEAVE A REPLY)
Before replacing any component in a Hitachi VSP 5000 storage system, it is critical to put the system or the affected controller/module into maintenance mode.
This ensures:
No active I/O is directed to the component being replaced.
Data integrity is preserved during the removal and replacement process.
The system prevents accidental disruptions to other parts of the storage array.
Automatic failover or rebuild processes do not interfere with the replacement.

NEW QUESTION: 23
The creation of Parity Groups is essential for which aspect of VSP 5000 storage systems?
A. User management
B. Power consumption reduction

C. Data protection and performance
D. Network configuration
Answer: C (LEAVE A REPLY)
In the Hitachi VSP 5000 storage system, Parity Groups are used to implement RAID configurations, which are fundamental for:
Data protection - Parity information allows the system to rebuild data in case of a drive failure, preventing data loss.
Performance optimization - Spreading data across multiple drives with parity improves read/write throughput and I/O efficiency.
Parity Groups are essentially the building blocks of storage pools, and they determine the balance between capacity, redundancy, and performance.

NEW QUESTION: 24
What are two ways to identify that a problem occurred on a VSP 5000 system? (Choose two.)
A. The Master Alarm LED at the top right of the front door is lit.
B. An Alert Information Message (AIM) was generated and communicated by SNMP to notify the customer.
C. The Remote Ops SVP Agent called home and a support case was generated.
D. A SIM was generated and could be displayed using the SVP GUI.
Answer: A,D (LEAVE A REPLY)
The Master Alarm LED at the top right of the front door is lit.
A lit Master Alarm LED is a direct hardware indicator that a problem has occurred on the system.
A SIM was generated and could be displayed using the SVP GUI.
A Service Information Message (SIM) indicates an event or error and can be viewed via the SVP GUI, helping identify and diagnose system issues.

NEW QUESTION: 25
When a hot spare drive is activated in a VSP 5000 system, it's important to:
A. Immediately order a replacement for the hot spare
B. Power down the system to avoid data loss
C. Reconfigure the RAID settings
D. Perform a full backup of the system
Answer: (SHOW ANSWER)
In the Hitachi VSP 5000 storage system, a hot spare is a drive reserved to automatically replace a failing drive in a RAID group. When it is activated:
The hot spare takes over the failed drive, and RAID rebuild begins.
At this point, the system no longer has a spare available for future failures.
Therefore, it is critical to order and install a new hot spare as soon as possible to maintain full redundancy and data protection.

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