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NVIDIA NCP-AIN 認定試験の出題範囲：

トピック	出題範囲
トピック 1	• AI Network Architecture: This section of the exam measures the skills of AI Infrastructure Architects and covers the ability to distinguish between AI factory and AI data center architectures. It includes understanding how Ethernet and InfiniBand differ in performance and application, and identifying the right storage options based on speed, scalability, and cost to fit AI networking needs.
トピック 2	• Spectrum-X Configuration, Optimization, Security, and Troubleshooting: This section of the exam measures the skills of Network Performance Engineers and covers configuring, managing, and securing NVIDIA Spectrum-X switches. It includes setting performance baselines, resolving performance issues, and using diagnostic tools such as CloudAI benchmark, NCCL, and NetQ. It also emphasizes leveraging DPUs for network acceleration and using monitoring tools like Grafana and SNMP for telemetry analysis.

トピック 3	• InfiniBand Configuration, Optimization, Security, and Troubleshooting: This section of the exam measures the skills of Data Center Network Administrators and covers the configuration and operational maintenance of NVIDIA InfiniBand switches. It includes setting up InfiniBand fabrics for multi-tenant environments, managing subnet configurations, testing connectivity, and using UFM to troubleshoot and analyze issues. It also focuses on validating rail-optimized topologies for optimal network performance.

価格が手頃なNVIDIA NCP-AIN認定試験に対する好評を得た参考書

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NVIDIA-Certified Professional AI Networking 認定 NCP-AIN 試験問題 (Q30-Q35):

質問 # 30
In which mode of the BlueField DPU does the ARM system on the DPU control the NIC data path, but allow access to the DPU OS from the host?

- A. Separated Host mode
- B. NIC mode
- C. Restricted mode
- D. DPU mode

正解：D

解説：
InDPU Mode, theARM cores on BlueFieldown theNIC data path, while still allowing thehost system to access the DPU OS (via OOB or virtio).
From NVIDIA BlueField Documentation:
"In DPU Mode, the data path is offloaded to the BlueField Arm cores, enabling advanced security and networking functions, while still allowing host access to the BlueField OS." This is different from:
* NIC Mode: Data path controlled by host, ARM cores inactive.
* Separated Host Mode: Complete isolation; host cannot access DPU OS.
* Restricted Mode: Limited host access to DPU OS, but without full offload capabilities.
Reference: NVIDIA BlueField DPU Architecture Guide - Operating Modes Section

質問 # 31
What are the two general user account types in MLNX-OS?
Pick the 2 correct responses below:

- A. viewer
- B. monitor
- C. admin
- D. enable

正解：B、C

解説：
MLNX-OS, the operating system for NVIDIA's networking devices, defines two primary user account types: adminandmonitor. Theadminaccount has full administrative privileges, allowing for complete configuration and management of the system. Themonitoraccount, on the other hand, is designed for users who need to view system configurations and statuses without making any changes. This separation ensures a clear distinction between users who manage the system and those who monitor its operations.

Reference Extracts from NVIDIA Documentation:
* "There are two user roles or account types: admin and monitor. As 'admin', the user is privileged to run all the available commands. As 'monitor', the user can run commands that show system configuration and status, or set terminal settings." MLNX-OS is the network operating system used on NVIDIA's Mellanox Ethernet switches, including the Spectrum family (e.g., Spectrum-4 switches in the Spectrum-X platform), designed for high-performance Ethernet networking in AI and HPC data centers. MLNX-OS provides a command-line interface (CLI) for configuring and managing switch operations, with user accounts controlling access to various commands and functions. The question asks for the two general user account types in MLNX-OS, which define the primary privilege levels for user access.
According to NVIDIA's official MLNX-OS documentation, the two general user account types in MLNX-OS are:
* monitor: This account type has read-only access, allowing users to view configurations, status, and logs but not modify settings. It is used for monitoring and troubleshooting without risking unintended changes.
* admin: This account type has full read-write access, enabling users to view and modify all configurations, execute commands, and manage the switch's operations. It is intended for administrators with complete control over the system.
These two account types represent the primary privilege levels in MLNX-OS, providing a clear distinction between read-only monitoring and full administrative access.
Exact Extract from NVIDIA Documentation:
"MLNX-OS supports two primary user account types for managing switch operations:
* monitor: Users with monitor privileges have read-only access to the system. They can view configuration details, system status, and logs but cannot make changes to the configuration.
* admin: Users with admin privileges have full read-write access, allowing them to configure, manage, and troubleshoot all aspects of the switch, including executing privileged commands.These account types ensure secure and controlled access to the switch's management functions."-NVIDIA MLNX-OS User Manual This extract confirms that options B (monitor) and C (admin) are the correct answers. These account types are the standard privilege levels in MLNX-OS, used to manage access for monitoring and administrative tasks on Spectrum switches, including those in Spectrum-X deployments.

質問 # 32
You are designing a new AI data center for a research institution that requires high-performance computing for large-scale deep learning models. The institution wants to leverage NVIDIA's reference architectures for optimal performance.
Which NVIDIA reference architecture would be most suitable for this high-performance AI research environment?

- A. NVIDIA LaunchPad
- B. NVIDIA DGX SuperPOD
- C. NVIDIA Base Command Platform
- D. NVIDIA DGX Cloud

正解：B

解説：
TheNVIDIA DGX SuperPODis a turnkey AI supercomputing infrastructure designed for large-scale deep learning and high-performance computing workloads. It integrates multiple DGX systems with high-speed networking and storage solutions, providing a scalable and efficient platform for AI research institutions. The architecture supports rapid deployment and is optimized for training complex models, making it the ideal choice for environments demanding top-tier AI performance.
Reference:DGX SuperPOD Architecture - NVIDIA Docs

質問 # 33
Which of the following commands would you use to assign the IP address 20.11.12.13 to the management interface in SONiC?

- A. interface mgmt0 vrf mgmt ip address 20.11.12.13 20.11.12.254
- B. nv set interface mgmt ip 20.11.12.13 20.11.12.254
- C. config ip add etho 20.11.12.13/24 20.11.12.254
- D. sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254

正解：D

解説：
In SONiC, to assign a static IP address to the management interface, the correct command is:
sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254
This command sets the IP address and the default gateway for the management interface.
SONiC (Software for Open Networking in the Cloud) is an open-source network operating system used on NVIDIA Spectrum-X

platforms, including Spectrum-4 switches, to provide a flexible and scalable networking solution for AI and HPC data centers.
Configuring the management interface in SONiC is a critical task for enabling remote access and network management. The question asks for the correct command to assign the IP address 20.11.12.13 to the management interface, typically identified as eth0 in SONiC, as it is the default management interface for out-of-band management.
Based on NVIDIA's official SONiC documentation, the correct command to assign an IP address to the management interface involves using the config command-line utility, which is part of SONiC's configuration framework. The command sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254 is the standard method to configure the IP address and gateway for the eth0 management interface. This command specifies the interface (eth0), the IP address with its subnet mask (20.11.12.13/24), and the default gateway (20.11.12.254), ensuring proper network connectivity.
Exact Extract from NVIDIA Documentation:
"To configure the management interface in SONiC, use the config interface ip add command. For example, to assign an IP address to the eth0 management interface, run:
sudo config interface ip add eth0 <IP_ADDRESS>/<PREFIX_LENGTH> <GATEWAY> Example:
sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254
This command adds the specified IP address and gateway to the management interface, enabling network access."
-NVIDIA SONiC Configuration Guide
This extract confirms that option C is the correct command for assigning the IP address to the management interface in SONiC. The use of sudo ensures the command is executed with the necessary administrative privileges, and the syntax aligns with SONiC's configuration model, which persists the changes in the configuration database.
Reference:Dell EMC Networking S-Series Basic Switch Management Configuration

質問 # 34
You are implementing a multi-tenant environment on your Spectrum-X switches for different departments in your organization. You need to ensure that eachdepartment's network traffic is isolated and secure.
Which Spectrum-X security feature would be most effective in creating isolated network environments for each department?

- A. Set UP Port Mirroring
- B. Enable Link Layer Discovery Protocol (LLDP)
- C. Implement Access Control Lists (ACLs)
- D. Configure Virtual Routing and Forwarding (VRF)

正解：D

解説：
Virtual Routing and Forwarding (VRF)is the most effective method to achievenetwork segmentation and isolationin a multi-tenant environment.
From theNVIDIA Cumulus Linux Documentation - VRF Section:
"VRF allows multiple instances of routing tables to coexist within the same switch, effectively isolating traffic between tenants or departments." Each department can:
* Operate in its own VRF domain
* Have independent routing tables
* Maintain strict separation of Layer 3 paths
Incorrect Options:
* A (Port Mirroring)- Used for traffic monitoring, not isolation.
* C (ACLs)- Useful for fine-grained filtering, but not scalable tenant isolation.
* D (LLDP)- Used for neighbor discovery, not security or isolation.
Reference: Cumulus Linux - VRF Support on Spectrum Switches

質問 # 35
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