

効果的なNCP-AIN練習問題集試験-試験の準備方法-更新するNCP-AIN勉強方法



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>> NCP-AIN練習問題集 <<

NCP-AIN勉強方法、NCP-AIN資料勉強

Xhs1991の専門家チームが彼ら自分の知識と経験を使って多くの人の夢が実現させるIT関連の認証試験の問題集

を研究し続けています。Xhs1991が提供したNVIDIAのNCP-AIN試験問題と解答が真実の試験の練習問題と解答は最高の相似性があります。Xhs1991があなたの夢が実現させるサイトでございます。

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	<ul style="list-style-type: none">• 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.
トピック 2	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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.

NVIDIA-Certified Professional AI Networking 認定 NCP-AIN 試験問題 (Q37-Q42):

質問 # 37

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

正解: C

解説:

In DPU Mode, the ARM cores on BlueField own the NIC data path, while still allowing the host 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 # 38

Which service on Cumulus switches can monitor layer 1, layer 2, layer 3, tunnel, buffer, and ACL related issues?

- A. BGP
- B. NCLU
- C. ONIE
- **D. WJH**

正解: D

解説:

The "What Just Happened" (WJH) service on Cumulus switches provides real-time visibility into network problems by monitoring various layers and components, including layer 1, layer 2, layer 3, tunnel, buffer, and Access Control List (ACL) related issues. WJH streams detailed and contextual telemetry data, enabling administrators to diagnose and troubleshoot network problems effectively.

Reference Extracts from NVIDIA Documentation:

- * "WJH can monitor layer 1, layer 2, layer 3, tunnel, buffer and ACL related issues."
- * "The WJH service enables you to diagnose network problems by looking at dropped packets."

質問 # 39

What are the prerequisites for performing Flow Analysis with NetQ?

- **A. Cumulus 5.x and later / Spectrum-2 and later / LCM enabled**
- B. Cumulus 5.x and later / Spectrum-2 and later / On-premises deployment
- C. Cumulus 5.x and later / Spectrum-3 and later / On-premises deployment
- D. Cumulus 4.x and later / Spectrum-2 and later / LCM enabled

正解: A

解説:

To perform Flow Analysis with NetQ, the following prerequisites must be met:

- * Cumulus Linux Version: NetQ Flow Analysis requires Cumulus Linux 5.x or later.
- * Switch Hardware: The feature is supported on Spectrum-2 and later switch models.
- * Lifecycle Management (LCM): LCM must be enabled to utilize Flow Analysis capabilities.

These requirements ensure compatibility and proper functioning of the Flow Analysis feature within NetQ.

Reference: NVIDIA NetQ Documentation - Flow Analysis Prerequisites

質問 # 40

In a multi-tenant InfiniBand environment managed by UFM, you need to configure access controls to prevent unauthorized users from altering the fabric configuration. Which method is used within UFM to manage user access and ensure authorized modifications only?

- A. Digital Certification Management (DCM)
- **B. Role-Based Access Control (RBAC)**
- C. Network Access Control (NAC)
- D. Virtual Network Segmentation (VNS)

正解: B

解説:

Role-Based Access Control (RBAC) is implemented within NVIDIA's Unified Fabric Manager (UFM) to manage user permissions effectively. RBAC allows administrators to assign roles to users, each with specific permissions, ensuring that only authorized individuals can make changes to the fabric configuration. This structured approach to access control enhances security by limiting the potential for unauthorized modifications and streamlines the management of user privileges across the network.

Reference: Role-Based Access Control (RBAC) - One Identity

質問 # 41

What are the two general user account types in MLNX-OS?

Pick the 2 correct responses below:

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

正解: B、C

解説:

MLNX-OS, the operating system for NVIDIA's networking devices, defines two primary user account types: admin and monitor. The admin account has full administrative privileges, allowing for complete configuration and management of the system. The monitor account, 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 # 42

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