

NVIDIA NCP-AINテスト模擬問題集 & NCP-AIN合格体験談



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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	<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">• 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 3	<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.
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>> NVIDIA NCP-AINテスト模擬問題集 <<

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NVIDIA-Certified Professional AI Networking 認定 NCP-AIN 試験問題 (Q69-Q74):

質問 # 69

In order to configure RoCE on a Cumulus switch, which command should be used?

- A. nv set roce qos enable on
- B. nv roce qos enable on
- C. nv set qos roce enable on
- D. nv qos roce enable on

正解: C

解説:

To enable RDMA over Converged Ethernet (RoCE) on a Cumulus switch, the correct command is:

nv set qos roce enable on

This command configures the Quality of Service (QoS) settings to support RoCE, ensuring that the necessary parameters for lossless Ethernet are applied.

Reference: NVIDIA Cumulus Linux Documentation - RDMA over Converged Ethernet (RoCE)

質問 # 70

When upgrading DOCA on a BlueField DPU, what command should first be run on the host?

- A. sudo apt-get upgrade doca
- B. sudo apt-get autoremove
- C. /usr/sbin/ofed_uninstall.sh -force
- D. sudo apt-get install doca

正解: C

解説:

Before upgrading the DOCA SDK on a BlueField DPU, it is mandatory to uninstall the existing OFED driver to prevent compatibility conflicts.

From the NVIDIA DOCA Installation Guide:

"Before upgrading DOCA or BlueField-related software, you must remove existing OFED packages using:

/usr/sbin/ofed_uninstall.sh -force." This ensures:

* Clean driver state

* No residual kernel modules or userspace libraries

* Proper registration of new DOCA/OFED versions

Incorrect Options:

* AandCmay not resolve conflicts.

* Dinstalls but doesn't remove conflicting packages.

Reference: DOCA SDK Installation - Uninstall OFED Requirement

質問 # 71

You are configuring the Unified Fabric Manager (UFM) for an InfiniBand fabric in a multi-tenant environment. You need to implement a solution that can detect potential security threats.

Which UFM feature uses analytics to detect security threats and predict network failures in InfiniBand data centers?

- A. Host Agent
- **B. Cyber-AI platform**
- C. Telemetry platform
- D. Enterprise platform

正解: B

解説:

The UFM Cyber-AI platform is an advanced feature of NVIDIA's Unified Fabric Manager designed to enhance security and reliability in InfiniBand data centers. It leverages AI-powered analytics and machine learning techniques to detect security threats, operational anomalies, and predict potential network failures.

By analyzing real-time and historical telemetry data, UFM Cyber-AI can identify abnormal system behaviors, performance degradations, and usage profile changes. This proactive approach enables administrators to address issues before they escalate, ensuring the integrity and uptime of the data center.

Reference Extracts from NVIDIA Documentation:

* "The NVIDIA Unified Fabric Manager (UFM) Cyber-AI platform offers enhanced and real-time network telemetry, combined with AI-powered intelligence and advanced analytics. It enables IT managers to discover operational anomalies and even predict network failures."

* "UFM Cyber-AI uses machine learning (ML) techniques and AI models for anomaly detection and prediction to learn the lifecycle patterns of data center network components."

* "The NVIDIA UFM platforms revolutionize data center networking management by combining enhanced, real-time network telemetry with AI-powered cyber intelligence and analytics to support scale-out InfiniBand data centers. ... The UFM Cyber-AI platform takes fabric management to the next level by adding an analytics layer powered by artificial intelligence. It enables data center operators to proactively monitor and manage the InfiniBand fabric, predicting and preventing potential failures, optimizing performance, and enhancing security. By analyzing telemetry data and historical patterns, UFM Cyber-AI can detect anomalies that may indicate security threats or operational issues, providing actionable insights to prevent downtime."

質問 # 72

You are troubleshooting a Spectrum-X network and need to ensure that the network remains operational in case of a link failure.

Which feature of Spectrum-X ensures that the fabric continues to deliver high performance even if there is a link failure?

- A. NVIDIA NetQ
- B. RoCE Congestion Control
- C. RoCE Performance Isolation
- **D. RoCE Adaptive Routing**

正解: D

解説:

RoCE Adaptive Routing is a key feature of NVIDIA Spectrum-X that ensures high performance and resiliency in the network, even in the event of a link failure. This technology dynamically reroutes traffic to the least congested and operational paths, effectively mitigating the impact of link failures. By continuously evaluating the network's egress queue loads and receiving status notifications from neighboring switches, Spectrum-X can adaptively select optimal paths for data transmission. This ensures that the network maintains high throughput and low latency, crucial for AI workloads, even when certain links are down.

Reference Extracts from NVIDIA Documentation:

* "Spectrum-X employs global adaptive routing to quickly reroute traffic during link failures, minimizing disruptions and preserving optimal storage fabric utilization."

* "RoCE Adaptive Routing avoids congestion by dynamically routing large AI flows away from congestion points. This approach

improves network resource utilization, leaf/spine efficiency, and performance."

質問 # 73

You suspect there might be connectivity issues in your InfiniBand fabric and need to perform a comprehensive check. Which tool should you use to run a full fabric diagnostic and generate a report?

- A. perfquery
- B. ibnetdiscover
- C. ibdiagnet
- D. taping

正解: C

解説:

The ibdiagnet utility is a fundamental tool for InfiniBand fabric discovery, error detection, and diagnostics. It provides comprehensive reports on the fabric's health, including error reporting, switch and Host Channel Adapter (HCA) configuration dumps, various counters reported by the switches and HCAs, and parameters of devices such as switch fans, power supply units, cables, and PCI lanes. Additionally, ibdiagnet performs validation for Unicast Routing, Adaptive Routing, and Multicast Routing to ensure correctness and a credit-loop-free routing environment.

質問 # 74

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