

NCP-AIN시험대비덤프최신샘플덤프공부문제



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>> NCP-AIN시험대비 덤프 최신 샘플 <<

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NVIDIA NCP-AIN 시험요강:

주제	소개
주제 1	• 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.
주제 2	• 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.

주제 3	• 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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최신 NVIDIA-Certified Professional NCP-AIN 무료샘플문제 (Q69-Q74):

질문 # 69

In an AI cluster using NVIDIA GPUs, which configuration parameter in the NicClusterPolicy custom resource is crucial for enabling high-speed GPU-to-GPU communication across nodes?

- A. RDMA Shared Device Plugin
- B. Secondary Network
- C. NV IPAM
- D. OFED Driver

정답: A

설명:

The RDMA Shared Device Plugin is a critical component in the NicClusterPolicy custom resource for enabling Remote Direct Memory Access (RDMA) capabilities in Kubernetes clusters. RDMA allows for high- throughput, low-latency networking, which is essential for efficient GPU-to-GPU communication across nodes in AI workloads. By deploying the RDMA Shared Device Plugin, the cluster can leverage RDMA- enabled network interfaces, facilitating direct memory access between GPUs without involving the CPU, thus optimizing performance.

Reference Extracts from NVIDIA Documentation:

* "RDMA Shared Device Plugin: Deploy RDMA Shared device plugin. This plugin enables RDMA capabilities in the Kubernetes cluster, allowing high-speed GPU-to-GPU communication across nodes."

* "The RDMA Shared Device Plugin is responsible for advertising RDMA-capable network interfaces to Kubernetes, enabling pods to utilize RDMA for high-performance networking."

질문 # 70

You are concerned about potential security threats and unexpected downtime in your InfiniBand data center.

Which UFM platform uses analytics to detect security threats, operational issues, and predict network failures in InfiniBand data centers?

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

정답: C

설명:

The NVIDIA UFM Cyber-AI Platform is specifically designed to enhance security and operational efficiency in InfiniBand data centers. It leverages AI-powered analytics to detect security threats, operational anomalies, and predict potential network failures. By analyzing real-time telemetry data, it identifies abnormal behaviors and performance degradation, enabling proactive maintenance and threat mitigation.

This platform integrates with existing UFM Enterprise and Telemetry services to provide a comprehensive view of the network's health and security posture. It utilizes machine learning algorithms to establish baselines for normal operations and detect deviations that may indicate security breaches or hardware issues.

Reference: NVIDIA UFM Cyber-AI Documentation v2.9.1

질문 # 71

What command sequence is used to identify the exact name of the server that runs as the master SM in a multi-node fabric?

- A. `sninfo`

smpquery ND <LID>

- B. ibis
ibsim <LID>
- C. sminfo
smpquery NI <LID>
- D. ibstat
sminfo <LID>

정답: A

설명:

To identify the activeSubnet Manager (SM) node in an InfiniBand fabric, the correct command sequence is:

- * sminfo
- * Displays general information about the active SM in the fabric, including its LID.
- * smpquery ND <LID>
- * Resolves the Node Description (ND) at the given LID, revealing the exact hostname or label of the SM server.

From the InfiniBand Tools Guide:

"The sminfo utility provides the LID of the master SM. Use smpquery ND <LID> to resolve the node name hosting the SM." This two-step approach is standard for locating and validating the SM identity in fabric diagnostics.

Incorrect Options:

- * B (NI) is an invalid query type.
- * CandD do not identify SMs.

Reference: InfiniBand SM Tools - sminfo & smpquery Usage

질문 # 72

A fabric administrator added new servers to a 40-port edge switch. The administrator now needs to gather and map the newly added ports' LIDs and LINK SPEED. Which of the following commands can be used for that purpose?

- A. ibswitches
- B. ib_check_routes
- C. ibhosts
- **D. ibnetdiscover**

정답: D

설명:

The correct utility is ibnetdiscover.

From the official NVIDIA InfiniBand Utilities Guide:

"ibnetdiscover scans the fabric and returns a topology of all switches and end nodes, including their GUIDs, LIDs, port numbers, and link speeds." It generates a fabric map with node-to-port relationships and shows:

- * GUIDs
- * LIDs (Local IDs)
- * Link speeds and widths
- * Switch-to-host connections

This is essential for network topology validation and mapping physical port additions.

Incorrect Options:

- * ib_check_routes- for routing table diagnostics.
- * ibhosts- shows host information but not switch-level port mapping.
- * ibswitches- shows switch info, but lacks port-level LID/link speed mapping.

Reference: NVIDIA InfiniBand Tools - ibnetdiscover Utility

질문 # 73

You are planning to deploy a large-scale Spectrum-X network for AI workloads. Before physical implementation, you want to validate the network design and configuration using a digital twin approach.

Which NVIDIA tool would be most appropriate for creating and simulating a digital twin of your Spectrum-X network?

- **A. NVIDIA Air**
- B. NVIDIA Omniverse
- C. NVIDIA Base Command Manager

- D. NVIDIA NetQ

정답: A

설명:

NVIDIA Air is a cloud-based network simulation tool designed to create digital twins of data center infrastructure, including Spectrum-X networks. It allows users to model switches, SuperNICs, and storage components, enabling the simulation, validation, and automation of network configurations before physical deployment. This facilitates Day 0, 1, and 2 operations, ensuring that network designs are tested and optimized for AI workloads.

Reference Extracts from NVIDIA Documentation:

- * "NVIDIA Air enables cloud-scale efficiency by creating identical replicas of real-world data center infrastructure deployments."
- * "NVIDIA Air allows users to model data center deployments with full software functionality, creating a digital twin. Transform and accelerate time to AI by simulating, validating, and automating changes and updates."
- * "NVIDIA Air supports simulation of NVIDIA Spectrum Ethernet (Cumulus Linux and SONiC) switches and NVIDIA BlueField DPUs and SuperNICs as well as the NetQ network operations toolset."

질문 # 74

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