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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 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.
Topic 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.

Topic 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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NVIDIA-Certified Professional AI Networking Sample Questions (Q67-Q72):

NEW QUESTION # 67
Which service on Cumulus switches can monitor layer 1, layer 2, layer 3, tunnel, buffer, and ACL related issues?

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

Answer: B

Explanation:
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."

NEW QUESTION # 68
Which component of the Spectrum-X platform is responsible for reordering out-of-order packets?

- A. Spectrum-4 switch
- B. DOCA software
- C. NetQ
- D. SuperNIC

Answer: D

Explanation:
Within the Spectrum-X platform, the NVIDIA BlueField-3 SuperNIC is responsible for reordering out-of- order packets. When RoCE adaptive routing is employed, packets may arrive at their destination out of order due to dynamic path selection. The BlueField-3 SuperNIC handles this by reassembling the packets in the correct order at the transport layer, ensuring that the application receives data seamlessly.
Reference Extracts from NVIDIA Documentation:
* "As different packets of the same flow travel through different paths of the network, they may arrive out of order to their destination. At the RoCE transport layer, the BlueField-3 DPU takes care of the out- of-order packets and forwards the data to the

application in order."
* "The BlueField-3 SuperNIC offers adaptive routing, out-of-order packet handling and optimized congestion control." The NVIDIA Spectrum-X networking platform is an Ethernet-based solution optimized for AI workloads, combining Spectrum-4 switches, BlueField-3 SuperNICs, and software like DOCA and NetQ to deliver high performance, low latency, and efficient data transfer. A key feature of Spectrum-X is its adaptive routing, which dynamically selects the least-congested paths for packet transmission to maximize bandwidth and minimizelatency. However, this per-packet load balancing can result in packets arriving out of order at the destination, necessitating a mechanism to reorder them for seamless application performance. The question asks which Spectrum-X component is responsible for reordering these out-of-order packets.
According to NVIDIA's official documentation, theBlueField-3 SuperNICis the component responsible for reordering out-of-order packets in the Spectrum-X platform. The SuperNIC, a network accelerator designed for hyperscale AI workloads, handles packet reordering at the RDMA over Converged Ethernet (RoCE) transport layer. It uses its processing capabilities to transparently reorder packets and place them in the correct sequence in the host memory, ensuring that adaptive routing's out-of-order delivery is invisible to the application. This is critical for maintaining predictable performance in AI workloads, particularly for GPU-to- GPU communication in Spectrum-X networks.
Exact Extract from NVIDIA Documentation:
"The Spectrum-4 switches are responsible for selecting the least-congested port for data transmission on a per- packet basis. As different packets of the same flow travel through different paths of the network, they may arrive out of order to their destination. The BlueField-3 SuperNIC transforms any out-of-order data at the RoCE transport layer, transparently delivering in-order data to the application."
-NVIDIA Technical Blog: Turbocharging Generative AI Workloads with NVIDIA Spectrum-X Networking Platform This extract confirms that option A, the SuperNIC (specifically the BlueField-3 SuperNIC), is the correct answer. The SuperNIC's role in reordering packets ensures that the adaptive routing implemented by Spectrum-4 switches does not compromise application performance, maintaining high effective bandwidth and low tail latency for AI workloads.

NEW QUESTION # 69
You are using NVIDIA Air to simulate a Spectrum-X network for AI workloads. You want to ensure that your network configurations are optimal before deployment.
Which NVIDIA tool can be integrated with Air to validate network configurations in the digital twin environment?

- A. Spectrum-X Manager
- B. DOCA
- C. NetQ
- D. GPU Cloud

Answer: C

Explanation:
NVIDIA NetQ is a highly scalable network operations toolset that provides visibility, troubleshooting, and validation of networks in real-time. It delivers actionable insights and operational intelligence about the health of data center networks-from the container or host all the way to the switch and port-enabling a NetDevOps approach.
NetQ can be used as the functional test platform for the network CI/CD in conjunction with NVIDIA Air.
Customers benefit from testing the new configuration with NetQ in the NVIDIA Air environment ("digital twin") and fix errors before deploying to their production.

NEW QUESTION # 70
You are optimizing a multi-node AI training cluster using InfiniBand networking and NVIDIA GPUs. You need to implement efficient collective communication operations across the nodes.
Which feature of NVIDIA Collective Communications Library (NCCL) allows for optimized performance in multi-subnet InfiniBand environments?

- A. Static plugin linking
- B. Support for IB Router
- C. Lazy connection establishment
- D. GPU Direct RDMA

Answer: B

Explanation:
Inmulti-subnet InfiniBand environments, AI training clusters are segmented across network zones (or subnets). Direct GPU-to-GPU

communication (especially for collective ops like AllReduce, Broadcast, etc.) requires inter-subnet reachability. NCCL supports this via theInfiniBand Router (IB Router)feature.
From theNCCL User Guide - Environment Variables Section:
"NCCL_IB_USE_IB_ROUTER: Enables NCCL support for IB routers which are used in multi-subnet InfiniBand fabrics. When enabled, NCCL can traverse IB subnets using a properly configured IB router." This is critical because without IB Router support:
* NCCL would be restricted to intra-subnet GPU collectives.
* Multi-node training across subnets would fail or fall back to slower TCP fallback mechanisms.
Technical Explanation:
* IB Routers usesubnet managers(like OpenSM with routing tables) to bridge communication across different InfiniBand partitions.
* NCCL queries the subnet topology, discovers routing paths, and usesRDMA CM(Connection Manager) to establish GPU transport over routers.
* This capability is especially important in data center-scale AI clusters spanning multiple racks or zones, connected viaIB routers like Mellanox SB7800 or QM8700 series.
When NCCL_IB_USE_IB_ROUTER=1 is set:
* NCCL includes router-aware route resolution in its path selection logic.
* Enables efficientzero-copy communicationacross GPUs in different IB domains, maintaining low latency.
Other Options Explained:
* A. Lazy connection establishment- controls when peer connections are made but does not enable cross-subnet reach.
* B. GPU Direct RDMA- enables intra-node direct memory access, not applicable for routing across subnets.
* C. Static plugin linking- affects how NCCL links plugins, not related to IB topology.
Exact Extract Reference:
Source: NVIDIA NCCL User Guide - Environment Variables Section
Extract: "NCCL_IB_USE_IB_ROUTER: Enables NCCL support for IB routers, required for multi-subnet InfiniBand configurations. Ensures proper routing of collectives over fabric-wide topologies."

NEW QUESTION # 71
You are optimizing an AI workload that involves multiple GPUs across different nodes in a data center. The application requires both high-bandwidth GPU-to-GPU communication within nodes and efficient communication between nodes.
Which combination of NVIDIA technologies would best support this multi-node, multi-GPU AI workload?

- A. NVLink for intra-node GPU communication and InfiniBand for inter-node communication.
- B. InfiniBand for both intra-node and inter-node GPU communication.
- C. PCIe for intra-node GPU communication and RoCE for inter-node communication.
- D. NVLink for both intra-node and inter-node GPU communication.

Answer: A

Explanation:
For optimal performance in multi-node, multi-GPU AI workloads:
* NVLinkprovides high-speed, low-latency communication between GPUs within the same node.
* InfiniBandoffers efficient, scalable communication between nodes in a data center.Combining these technologies ensures both intra-node and inter-node communication needs are effectively met.
Reference:NVIDIA NVLink & NVSwitch: Fastest HPC Data Center Platform

NEW QUESTION # 72
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