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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	• 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.
Topic 3	• 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.

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NVIDIA-Certified Professional AI Networking Sample Questions (Q22-Q27):

NEW QUESTION # 22
What is the total throughput of the SN5600 Spectrum-X switch?

- A. 102.4 gigabits per second
- B. 51.2 terabits per second
- C. 12.8 petabits per second
- D. 25.6 terabits per second

Answer: B

Explanation:
The SN5600 smart-leaf/spine/super-spine switch offers 64 ports of 800GbE in a dense 2U form factor. The SN5600 offers diverse connectivity in combinations of 1 to 800GbE and boasts an industry-leading total throughput of 51.2Tb/s.
Reference:NVIDIA Spectrum SN5600 Ethernet Switch - Bluum

NEW QUESTION # 23
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. InfiniBand for both intra-node and inter-node GPU communication.
- B. PCIe for intra-node GPU communication and RoCE for inter-node communication.
- C. NVLink for intra-node GPU communication and InfiniBand for inter-node communication.
- D. NVLink for both intra-node and inter-node GPU communication.

Answer: C

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 # 24
A high-performance InfiniBand fabric requires a routing engine that maximizes throughput and network utilization while reducing congestion. Which option below is the best routing engine for InfiniBand?

- A. Adaptive Routing
- B. Random Routing
- C. Round Robin Routing
- D. Shortest Path Routing

Answer: A

Explanation:
Adaptive Routingin InfiniBand networks dynamically selects the optimal path for data packets based on current network conditions, such as congestion levels and link utilization. This approach ensures that traffic is evenly distributed across the network, preventing bottlenecks and maximizing overall throughput.
By continuously monitoring the network and adjusting routes in real-time, Adaptive Routing enhances performance and reliability, making it the preferred choice for high-performance computing environments where consistent low latency and high bandwidth are critical.
Reference:NVIDIA InfiniBand Adaptive Routing Technology Whitepaper

NEW QUESTION # 25
When creating a simu-lation in NVIDIA AIR, what syntax would you use to define a link between port 1 on spine-01 and port 41 on gpu-leaf-01?

- A. "spine-01":"eth1" - "gpu-leaf-01":"eth41"
- B. "spine-01 'eth1" to "gpu-leaf-01":"eth41"
- C. "spine-01":"swp1" to "gpu-leaf-01":"swp41"
- D. "spine-01":*swp01" - *gpu-leaf-01":"swp41"

Answer: D

Explanation:
NVIDIA AIR (AI-Ready Infrastructure) is a cloud-based simulation platform designed to model and validate data center network deployments, including Spectrum-X Ethernet networks, using realistic topologies and configurations. When creating a custom topology in NVIDIA AIR, users can define network links between devices (e.g., spine and leaf switches) using a DOT file format, which is based on the Graphviz graph visualization software. The question asks for the correct syntax to define a link between port 1 on a spine switch (spine-01) and port 41 on a leaf switch (gpu-leaf-01) in a NVIDIA AIR simulation.
According to NVIDIA's official NVIDIA AIR documentation, the DOT file format is used to specify network topologies, including nodes (devices) and links (connections between ports). The syntax for defining a link in a DOT file uses a double dash (--) to indicate a connection between two ports, with each port specified in the format "<node>":"<port>". For Spectrum-X networks, which typically use Cumulus Linux or SONiC on NVIDIA Spectrum switches, ports are commonly labeled as swpX (switch port X) rather than ethX (Ethernet interface), especially for switch-to-switch connections in a leaf-spine topology. The correct syntax for the link between port 1 on spine-01 and port 41 on gpu-leaf-01 is:
"spine-01":"swp01" -- "gpu-leaf-01":"swp41"
This syntax uses swp01 and swp41 to denote switch ports, consistent with Cumulus Linux conventions, and the double dash (--) to indicate the link, as required by the DOT file format.
Exact Extract from NVIDIA Documentation:
"You can create custom topologies in Air using a DOT file, which is the file type used with the open-source graph visualization software, Graphviz. DOT files define nodes, attributes, and connections for generating a topology for a network. The following is an example of a link definition in a DOT file:
"leaf01":"swp31" -- "spine01":"swp1"
This specifies a connection between port swp31 on leaf01 and port swp1 on spine01. Port names typically follow the switch port naming convention (e.g., swpX) for Cumulus Linux-based switches."
-NVIDIA Air Custom Topology Guide
This extract confirms that option A is the correct answer, as it uses the proper DOT file syntax with swp01 and swp41 for port names and the double dash (--) for the link, aligning with NVIDIA AIR's topology definition process for Spectrum-X simulations.
Analysis of Other Options:
* B. "spine-01":"swp1" to "gpu-leaf-01":"swp41": This option uses the correct port naming convention (swp1 and swp41) but incorrectly uses the word to as the connector instead of the double dash (--). The DOT file format requires -- to define links, making this syntax invalid for NVIDIA AIR.
* C. "spine-01":"eth1" to "gpu-leaf-01":"eth41": This option uses ethX port names, which are typically used for host interfaces (e.g., servers) rather than switch ports in Cumulus Linux or SONiC environments. Switch ports in Spectrum-X topologies are labeled swpX. Additionally, the use of to instead of -- is incorrect for DOT file syntax, making this option invalid.
* D. "spine-01":"eth1" - "gpu-leaf-01":"eth41": This option uses a single dash (-) instead of the required double dash (--) and incorrectly uses ethX port names instead of swpX. The ethX naming is not standard for switch ports in Spectrum-X, and the single dash is not valid DOT file syntax, making this option incorrect.
Why "spine-01":"swp01" -- "gpu-leaf-01":"swp41" is the Correct answer:
Option A correctly adheres to the DOT file syntax used in NVIDIA AIR for defining network links:
* Node and Port Naming: The nodes spine-01 and gpu-leaf-01 are specified with their respective ports swp01 and swp41, following the swpX convention for switch ports in Cumulus Linux-based Spectrum- X switches.
* Link Syntax: The double dash (--) is the standard connector in DOT files to indicate a link between two ports, as required by Graphviz and NVIDIA AIR.
* Spectrum-X Context: In a Spectrum-X leaf-spine topology, connections between spine and leaf switches (e.g., Spectrum-4 switches) use switch ports labeled swpX, making swp01 and swp41 appropriate for this simulation.
This syntax ensures that the NVIDIA AIR simulation accurately models the physical connection between spine-01 port 1 and gpu-leaf-01 port 41, enabling validation of the Spectrum-X network topology. The DOT file can be uploaded to NVIDIA AIR to generate the topology, as described in the documentation.

NEW QUESTION # 26
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. ibnetdiscover
- B. ibhosts

- C. ibswitches
- D. ib_check_routes

Answer: A

Explanation:
The correct utility isibnetdiscover.
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

NEW QUESTION # 27
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