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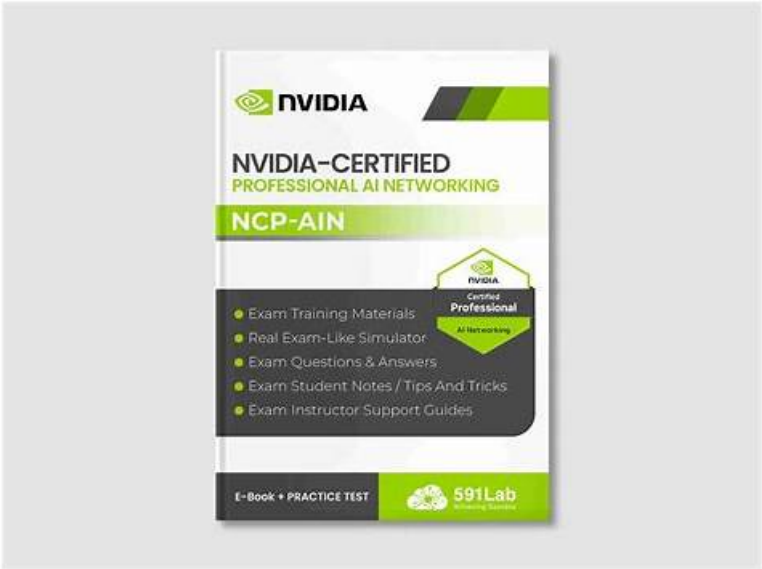

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NVIDIA NCP-AIN Exam Syllabus Topics:

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.

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

NEW QUESTION # 22
Which of the following tools in Cumulus Linux is specifically useful for detecting and differentiating microbursts from regular network congestion?
Pick the 2 correct responses below

- A. Monthly network utilization reports
- B. SNMP polling at 5-minute intervals
- C. What Just Happened (WJH) feature for packet drop analysis
- D. ASIC monitoring with millisecond-level granularity

Answer: C,D

Explanation:
In Cumulus Linux, microbursts are short-lived, high-volume traffic bursts that often go undetected by coarse- grained monitoring like SNMP.
The two tools specifically used for this purpose are:
* What Just Happened (WJH)
"WJH provides real-time packet drop visibility and classifies drops by reason (e.g., congestion, ACLs, etc.), enabling microburst detection."
* ASIC monitoring at millisecond granularity
"Deep telemetry is enabled via the switch ASIC, which provides sub-second counters that capture microburst patterns otherwise missed by SNMP." Incorrect Options:
* AandCprovide low-frequency sampling, insufficient for microbursts which last milliseconds.
Reference: NVIDIA NetQ & Cumulus Linux Documentation - What Just Happened (WJH)

NEW QUESTION # 23
What are two methods for accessing the operating system on a BlueField DPU?
Pick the 2 correct responses below

- A. Via the networking interfaces (data ports) in NIC mode
- B. Via the rshim interface over the PCIe bus
- C. Via the Redfish API
- D. Via rshim over a USB connection on the host

Answer: B,D

Explanation:
Accessing theBlueField DPU Operating System (OS)is possible throughrshim, either over PCIe or USB, and viaSSH through the OOB interfacewhen in DPU mode.
From theNVIDIA BlueField Software Documentation:
"You can access the BlueField OS through the rshim interface. The rshim module enables host-to-DPU communication either via PCIe (default) or USB."
* B. rshim over PCIe: Default when BlueField is installed in a host.
* D. rshim over USB: Useful for provisioning or systems without PCIe drivers.
Incorrect Options:

* A (NIC mode): BlueField acts as a transparent NIC; OS access is not available to the host.
* C (Redfish): Redfish is for out-of-band management, not direct OS-level access.
Reference: Accessing BlueField OS - rshim via PCIe and USB Methods

NEW QUESTION # 24
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. NIC mode
- B. Separated Host mode
- C. DPU mode
- D. Restricted mode

Answer: C

Explanation:
InDPU Mode, theARM cores on BlueFieldown theNIC data path, while still allowing thehost 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

NEW QUESTION # 25
You are troubleshooting connectivity issues in your InfiniBand network and need to test basic connectivity between nodes. Which command should you use to test basic connectivity between InfiniBand nodes?

- A. ibnetdiscover
- B. traceroute
- C. ibping
- D. ping

Answer: C

Explanation:
The tool specifically designed for testingInfiniBand connectivityis **ibping**. It functions similarly to the traditional ping utility but is optimized forInfiniBand fabrics.
From theNVIDIA InfiniBand Diagnostic Utilities Documentation:
"ibping tests the connectivity of InfiniBand nodes by sending management datagrams (MADs) and verifying the response from the destination LID or GUID."
* Tests basicnode-to-nodereachability
* Supports testing viaLID, GUID, orport number
* Helps verify subnet manager routing and fabric health
Incorrect Options:
* pingandtracerouteare IP-based, not fabric-aware.
* ibnetdiscovermaps topology but doesn't test live connectivity.
Reference: InfiniBand Diagnostic Tools - ibping

NEW QUESTION # 26
Which of the following routing protocols is not capable of avoiding credit loops?

- A. FAT TREE
- B. MINHOP
- C. UPDOWN

- D. All routing protocols are capable of avoiding credit loops

Answer: B

Explanation:
TheMINHOProuting protocol, while efficient in finding minimal paths, does not inherently prevent credit loops. This can lead to deadlocks in the network. In contrast, routing protocols like UPDOWN and FAT TREE are designed to avoid such loops, ensuring more reliable network operation.
Reference:Optimized Routing for Large-Scale InfiniBand Networks

NEW QUESTION # 27
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