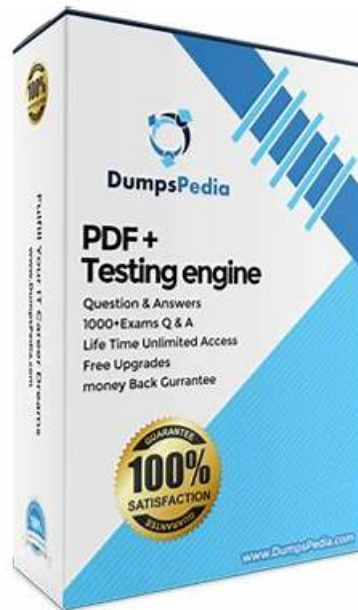


2026 NCP-AIN: NVIDIA-Certified Professional AI Networking–Reliable Dumps Questions



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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 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.

Topic 2	<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.
Topic 3	<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.

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NVIDIA-Certified Professional AI Networking Sample Questions (Q59-Q64):

NEW QUESTION # 59

A user has requested confirmation that the InfiniBand network is performing optimally and is not limiting the speed of a training run. To verify this, you would like to measure the RDMA throughput rate between two endpoints. Which tool should be used?

- A. **ib_write_bw**
- B. iperf
- C. ibdiagnet
- D. ping

Answer: A

Explanation:

The `ib_write_bw` tool is part of the Perftest package and is specifically designed to measure the bandwidth of RDMA write operations between two InfiniBand endpoints. It provides accurate assessments of RDMA throughput, which is crucial for verifying the performance of InfiniBand networks in high-performance computing and AI training environments.

Reference: `ib_write_bw` - NVIDIA Enterprise Support Portal

NEW QUESTION # 60

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. GPU Cloud
- D. **NetQ**

Answer: D

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 # 61

In Cumulus Linux, which technology enables the ability to provide active-active redundancy to servers, without the need for direct inter-switch links?

- A. EVPN Multi-homing
- B. MLAG
- C. VSS

Answer: A

Explanation:

EVPN Multi-homing enables active-active redundancy without inter-switch links by using overlay routing over VXLAN and distributed control plane using BGP EVPN.

From the official NVIDIA Cumulus Linux EVPN Multihoming Documentation:

"EVPN multihoming allows multiple Top-of-Rack (ToR) switches to connect to the same server while maintaining full layer-2 redundancy without the need for inter-switch links or traditional MLAG configuration." Key benefits:

- * Simplified topology (no ISL/peer-link needed)
- * BGP-based control plane
- * Fast convergence
- * Active-active links per host NIC

Incorrect Options:

- * MLAG requires ISL between switches and peer-link configuration.
- * VSS (Virtual Switching System) is a Cisco term, not supported in NVIDIA networking.

Reference: Cumulus Linux Docs - EVPN Multihoming

NEW QUESTION # 62

Which of the following scenarios would the Network Traffic Map in UFM be least useful for troubleshooting?

- A. When optimizing job placement and workload distribution across the cluster.
- B. After making changes to network configuration.
- C. When investigating reports of network congestion or latency problems.
- D. When troubleshooting a single node's hardware failure.

Answer: D

Explanation:

The Network Traffic Map in NVIDIA's Unified Fabric Manager (UFM) provides a visual representation of the network topology and traffic flows, which is particularly useful for identifying congestion points, verifying network configurations, and optimizing workload distribution.

However, when troubleshooting a single node's hardware failure, the Network Traffic Map is less effective, as it focuses on network-level issues rather than individual hardware components.

NEW QUESTION # 63

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

Answer: C

Explanation:

For optimal performance in multi-node, multi-GPU AI workloads:

* NVLink provides high-speed, low-latency communication between GPUs within the same node.

* InfiniBand offers 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 # 64

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