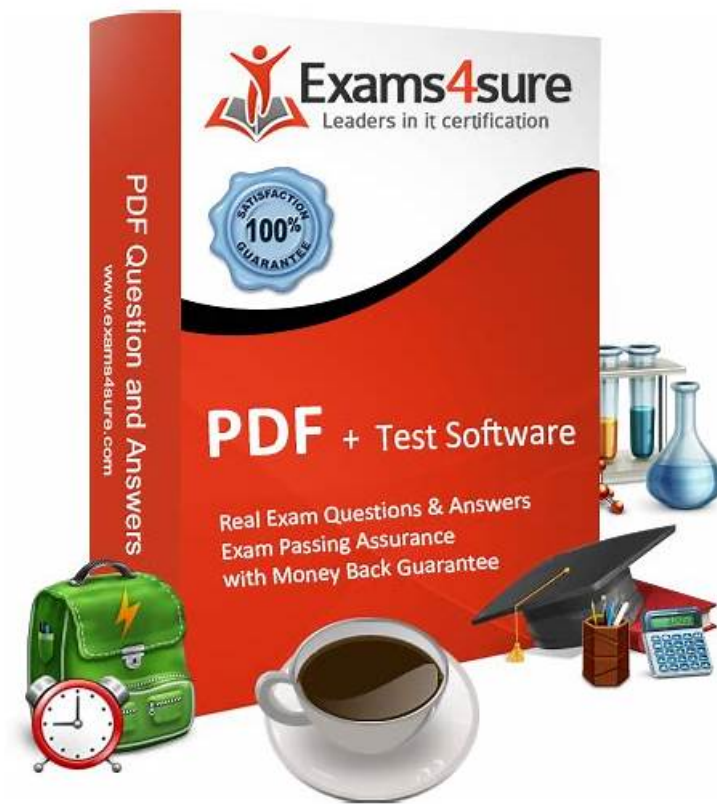


# ITPassLeader NCP-AIN Dumps PDF Format - NVIDIA NCP-AIN Exam Questions



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ITPassLeader has one of the most comprehensive and top-notch NVIDIA NCP-AIN Exam Questions. We eliminated the filler and simplified the NVIDIA-Certified Professional AI Networking exam preparation process so you can ace the NVIDIA exam on your first try. Our NVIDIA NCP-AIN Questions include real-world examples to help you learn the fundamentals of the subject not only for the NVIDIA exam but also for your future job.

## NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
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## NVIDIA-Certified Professional AI Networking Sample Questions (Q35-Q40):

### NEW QUESTION # 35

You are troubleshooting an InfiniBand network issue and need to check the status of the InfiniBand interfaces. Which command should you use to display the state, physical state, and link layer of InfiniBand interfaces?

- A. `sudo ibnodes -C mlx5_0`
- B. `ibv_devices -c mlx5_0`
- C. `cat /proc/net/ib/device`
- D. `ibstat -d mlx5_X`

**Answer: D**

Explanation:

The `ibstat` command is utilized to display the operational status of InfiniBand Host Channel Adapters (HCAs).

It provides detailed information, including the state (e.g., Active, Down), physical state (e.g., LinkUp, Polling), and link layer (e.g., InfiniBand, Ethernet) of each port on the HCA. This information is crucial for diagnosing connectivity issues and ensuring that the InfiniBand interfaces are functioning correctly.

Reference Extracts from NVIDIA Documentation:

\* "The `ibstat` command displays the status of the host channel adapters (HCAs) in your InfiniBand fabric.

The status includes the HCAs' state, physical state, and link layer."

\* "For proper operation, you are looking for 'State: Active' and 'Physical State: LinkUp'."

### NEW QUESTION # 36

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

**Answer: A**

Explanation:

The tool specifically designed for testing InfiniBand connectivity is `ibping`. It functions similarly to the traditional ping utility but is optimized for InfiniBand fabrics.

From the NVIDIA 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 basic node-to-node reachability

- \* Supports testing via LID, GUID, or port number
  - \* Helps verify subnet manager routing and fabric health
- Incorrect Options:
- \* ping and traceroute are IP-based, not fabric-aware.
  - \* ibnetdiscover maps topology but doesn't test live connectivity.
- Reference: InfiniBand Diagnostic Tools - ibping

#### NEW QUESTION # 37

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. DPU mode**
- C. Separated Host mode
- D. Restricted mode

**Answer: B**

Explanation:

In DPU Mode, the ARM cores on BlueField own the NIC data path, while still allowing the host 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 # 38

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. DOCA
- B. GPU Cloud
- C. Spectrum-X Manager
- **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 # 39

You are troubleshooting a Spectrum-X network and need to ensure that the network remains operational in case of a link failure.

Which feature of Spectrum-X ensures that the fabric continues to deliver high performance even if there is a link failure?

- **A. RoCE Adaptive Routing**
- B. RoCE Congestion Control
- C. RoCE Performance Isolation
- D. NVIDIA NetQ

**Answer: A**

Explanation:

RoCE Adaptive Routing is a key feature of NVIDIA Spectrum-X that ensures high performance and resiliency in the network, even in the event of a link failure. This technology dynamically reroutes traffic to the least congested and operational paths, effectively mitigating the impact of link failures. By continuously evaluating the network's egress queue loads and receiving status notifications from neighboring switches, Spectrum-X can adaptively select optimal paths for data transmission. This ensures that the network maintains high throughput and low latency, crucial for AI workloads, even when certain links are down.

### Reference Extracts from NVIDIA Documentation:

\* "Spectrum-X employs global adaptive routing to quickly reroute traffic during link failures, minimizing disruptions and preserving optimal storage fabric utilization."

\* "RoCE Adaptive Routing avoids congestion by dynamically routing large AI flows away from congestion points. This approach improves network resource utilization, leaf/spine efficiency, and performance."

### NEW QUESTION # 40

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