NCP-AIN Valid Exam Prep - NCP-AIN Exam Duration

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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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one of the important indices for one level. When looking for a job, of course, a lot of companies what the personnel managers will ask applicants that have you get the NCP-AINcertification to prove their abilities, therefore, we need to use other ways to testify our knowledge we get when we study at college , such as get the NCP-AIN Test Prep to obtained the qualification certificate to show their own all aspects of the comprehensive abilities, and the NCP-AIN exam guide can help you in a very short period of time to prove yourself perfectly and efficiently.

NVIDIA-Certified Professional AI Networking Sample Questions (Q18-Q23):

NEW QUESTION # 18
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. cat /proc/net/ib/device
- B. ibstat -d mlx5_X
- C. sudo ibnodes -C mlx5_0
- D. ibv_devices -c mlx5_0

Answer: B

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 # 19
Which of the following routing protocols is not capable of avoiding credit loops?

- A. UPDOWN
- B. MINHOP
- C. FAT TREE
- 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 # 20
In a multi-tenant InfiniBand environment managed by UFM, you need to configure access controls to prevent unauthorized users from altering the fabric configuration. Which method is used within UFM to manage user access and ensure authorized modifications only?

- A. Digital Certification Management (DCM)
- B. Network Access Control (NAC)
- C. Role-Based Access Control (RBAC)
- D. Virtual Network Segmentation (VNS)

Answer: C

Explanation:
Role-Based Access Control (RBAC)is implemented within NVIDIA's Unified Fabric Manager (UFM) to manage user permissions

effectively. RBAC allows administrators to assign roles to users, each with specific permissions, ensuring that only authorized individuals can make changes to the fabric configuration. This structured approach to access control enhances security by limiting the potential for unauthorized modifications and streamlines the management of user privileges across the network.
Reference: Role-Based Access Control (RBAC) - One Identity

NEW QUESTION # 21

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 # 22

You are designing a new AI data center for a research institution that requires high-performance computing for large-scale deep learning models. The institution wants to leverage NVIDIA's reference architectures for optimal performance.
Which NVIDIA reference architecture would be most suitable for this high-performance AI research environment?

- A. NVIDIA DGX SuperPOD
- B. NVIDIA LaunchPad
- C. NVIDIA Base Command Platform
- D. NVIDIA DGX Cloud

Answer: A

Explanation:
The NVIDIA DGX SuperPOD is a turnkey AI supercomputing infrastructure designed for large-scale deep learning and high-performance computing workloads. It integrates multiple DGX systems with high-speed networking and storage solutions, providing a scalable and efficient platform for AI research institutions. The architecture supports rapid deployment and is optimized for training complex models, making it the ideal choice for environments demanding top-tier AI performance.
Reference: DGX SuperPOD Architecture - NVIDIA Docs

NEW QUESTION # 23

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