

Exam NVIDIA NCP-AIN Voucher - NCP-AIN Test Questions Answers

NVIDIA NCP-AIN Exam

NVIDIA-Certified Professional AI Networking

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This is similar to the NCP-AIN desktop format but this is browser-based. It requires an active internet connection to run and is compatible with all browsers such as Google Chrome, Mozilla Firefox, Opera, MS Edge, Safari, Internet Explorer, and others. The NVIDIA NCP-AIN Mock Exam helps you self-evaluate your NVIDIA-Certified Professional AI Networking exam preparation and mistakes. This way you improve consistently and attempt the NCP-AIN certification exam in an optimal way for excellent results in the exam.

NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	• 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 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.

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In the present situation, you will find companies laying off their employees without any notice or prior information. They are just receiving an email and the next moment they have no access to the company network. So to avoid all this, you have to keep yourself updated with the new version of technologies and applications. You have to become one of NVIDIA-Certified Professional AI Networking (NCP-AIN) certification holders who survived the laying off situation and are still in a great position in their company. You cannot afford to lose it when you need your job the most.

NVIDIA-Certified Professional AI Networking Sample Questions (Q30-Q35):

NEW QUESTION # 30

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

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

Answer: C

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 # 31

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. Virtual Network Segmentation (VNS)
- **D. Role-Based Access Control (RBAC)**

Answer: D

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 # 32

A leading AI research center is upgrading its infrastructure to support large language model projects.

The team is debating whether to implement a dedicated storage fabric for their AI workloads.

Which of the following best explains why a dedicated storage fabric is crucial for this AI network architecture?

Pick the 2 correct responses below

- A. To ensure data security and isolation from other network traffic.
- **B. To enable parallel data access and improve storage performance for distributed AI workloads.**
- C. To reduce the overall cost of the storage infrastructure.
- **D. To provide high-bandwidth, low-latency data access that prevents I/O bottlenecks during AI model training.**

Answer: B,D

Explanation:

Modern AI training (especially with LLMs) requires extremely high-speed, parallel access to large datasets. A dedicated storage fabric separates data I/O traffic from the training compute path and avoids contention.

From NVIDIA DGX Infrastructure Reference Architectures:

"Dedicated storage networks eliminate I/O bottlenecks by providing low-latency, high-bandwidth access to distributed storage for large-scale training jobs."

"Parallel access to datasets is key for performance, especially in multi-node, multi-GPU AI clusters." Security (B) is important, but not the core reason for a storage fabric.

Cost (D) is typically increased, not reduced, with dedicated fabrics.

Reference: NVIDIA BasePOD/AI Infrastructure Deployment Guidelines - Storage Section

NEW QUESTION # 33

When upgrading DOCA on a BlueField DPU, what command should first be run on the host?

- A. `sudo apt-get autoremove`
- B. `sudo apt-get upgrade doca`
- C. `sudo apt-get install doca`
- **D. `/usr/sbin/ofed_uninstall.sh -force`**

Answer: D

Explanation:

Before upgrading the DOCA SDK on a BlueField DPU, it is mandatory to uninstall the existing OFED drivers to prevent compatibility conflicts.

From the NVIDIA DOCA Installation Guide:

"Before upgrading DOCA or BlueField-related software, you must remove existing OFED packages using:

`/usr/sbin/ofed_uninstall.sh -force`." This ensures:

- * Clean driver state
- * No residual kernel modules or userspace libraries
- * Proper registration of new DOCA/OFED versions

Incorrect Options:

- * `A` and `C` may not resolve conflicts.
- * `D` installs but doesn't remove conflicting packages.

Reference: DOCA SDK Installation - Uninstall OFED Requirement

NEW QUESTION # 34

You need to configure a bond in Cumulus Linux. Which command should you use?

- A. `nv set bond bond1 interface member swp1-4`
- B. `nv set interface bond1 bond mlag enable`

- C. nv set interface bond1 bond mode lacp
- D. nv set interface bond1 bond member swp1-4

Answer: C

Explanation:

In Cumulus Linux, configuring a bond interface with Link Aggregation Control Protocol (LACP) involves setting the bond mode to 'lacp'. The correct command to achieve this is:

```
nv set interface bond1 bond mode lacp
```

This command sets the bonding mode of 'bond1' to LACP, enabling dynamic link aggregation for increased bandwidth and redundancy.

Reference Extracts from NVIDIA Documentation:

* "To reset the link aggregation mode for bond1 to the default value of 802.3ad, run the nv set interface bond1 bond mode lacp command."

NEW QUESTION # 35

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