

NCP-AIN真題 & NCP-AIN考試備考經驗



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NVIDIA NCP-AIN 考試大綱：

主題	簡介
主題 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.
主題 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.
主題 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.

>> NCP-AIN真題 <<

NVIDIA NCP-AIN考試備考經驗 - NCP-AIN考題套裝

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最新的 NVIDIA-Certified Professional NCP-AIN 免費考試真題 (Q75-Q80):

問題 #75

When upgrading Cumulus Linux to a new version, which configuration files should be migrated from the old installation? Pick the 2 correct responses below.

- A. All files in /etc
- **B. All files in /etc/network**
- C. All files in /etc/mix
- **D. All files in /etc/cumulus/acl**

答案: B,D

解題說明:

Before upgrading Cumulus Linux, it's essential to back up configuration files to a different server.

The /etc directory is the primary location for all configuration data in Cumulus Linux. Specifically, the following files and directories should be backed up:

/etc/frr/ - Routing application (responsible for BGP and OSPF) /etc/hostname - Configuration file for the hostname of the switch

/etc/network/ network configuration files, most notably

/etc/network/interfaces and /etc/network/interfaces.d/

/etc/cumulus/acl access control list configurations

Cumulus Linux is a network operating system used on NVIDIA Spectrum switches, including those in the Spectrum-X platform, to provide a Linux-based environment for Ethernet networking in AI and HPC data centers. When upgrading Cumulus Linux to a new version, it's critical to migrate specific configuration files to preserve network settings and ensure continuity. The question asks for the two configuration file locations that should be migrated from the old installation during an upgrade. According to NVIDIA's official Cumulus Linux documentation, the key directories containing configuration files that should be migrated during an upgrade are /etc/cumulus/acl (for access control list configurations) and /etc/network (for network interface configurations). These directories store critical network settings that define the switch's behavior, such as ACL rules and interface settings, which must be preserved to maintain network functionality after the upgrade.

問題 #76

When creating a simulation in NVIDIA AIR, what syntax would you use to define a link between port 1 on spine-01 and port 41 on gpu-leaf-01?

- A. "spine-01":"eth1" - "gpu-leaf-01":"eth41"
- **B. "spine-01":*swp01" - *gpu-leaf-01":*swp41"**
- C. "spine-01 'eth1' to 'gpu-leaf-01':"eth41"
- D. "spine-01":*swp1" to "gpu-leaf-01":*swp41"

答案: B

解題說明:

NVIDIA AIR (AI-Ready Infrastructure) is a cloud-based simulation platform designed to model and validate data center network deployments, including Spectrum-X Ethernet networks, using realistic topologies and configurations. When creating a custom topology in NVIDIA AIR, users can define network links between devices (e.g., spine and leaf switches) using a DOT file format, which is based on the Graphviz graph visualization software. The question asks for the correct syntax to define a link between port 1 on a spine switch (spine-01) and port 41 on a leaf switch (gpu-leaf-01) in a NVIDIA AIR simulation.

According to NVIDIA's official NVIDIA AIR documentation, the DOT file format is used to specify network topologies, including nodes (devices) and links (connections between ports). The syntax for defining a link in a DOT file uses a double dash (--) to indicate a connection between two ports, with each port specified in the format "<node>:<port>". For Spectrum-X networks, which typically use Cumulus Linux or SONiC on NVIDIA Spectrum switches, ports are commonly labeled as swpX (switch port X) rather than ethX (Ethernet interface), especially for switch-to-switch connections in a leaf-spine topology. The correct syntax for the link between port 1 on spine-01 and port 41 on gpu-leaf-01 is:

"spine-01":*swp01" -- "gpu-leaf-01":*swp41"

This syntax uses swp01 and swp41 to denote switch ports, consistent with Cumulus Linux conventions, and the double dash (--) to indicate the link, as required by the DOT file format.

問題 #77

A cloud service provider is deploying the NVIDIA Spectrum-X Ethernet platform in a multi-tenant environment. To ensure the security and isolation of each tenant's AI workload, the provider wants to implement a feature that prevents unauthorized access to the network. Which of the following features of the Spectrum-X platform should the provider implement?

- A. Traffic Isolation
- B. Streaming Telemetry
- C. Adaptive Routing
- D. Congestion Control

答案： A

解題說明：

In multi-tenant AI cloud environments, ensuring that each tenant's workloads are isolated and secure is paramount. The NVIDIA Spectrum-X platform addresses this need through its Traffic Isolation capabilities. This feature ensures that network resources are partitioned effectively, preventing unauthorized access and interference between tenants. By implementing Traffic Isolation, the provider can maintain strict boundaries between different tenant environments, ensuring both security and performance consistency.

問題 #78

You are tasked with configuring multi-tenancy using partition key (PKey) for a high-performance storage fabric running on InfiniBand. Each tenant's GPU server is allowed to access the shared storage system but cannot communicate with another tenant's GPU server.

Which of the following partition key membership configurations would you implement to set up multi-tenancy in this environment?

- A. Assign limited membership PKey to the shared storage system and full membership PKey to each tenant's GPU servers.
- B. Assign full membership to both GPU servers and storage system.
- C. Assign full membership PKey to the shared storage system and limited membership PKey to each tenant's GPU servers.
- D. Assign limited membership to both GPU servers and storage system.

答案： C

解題說明：

To enforce strict multi-tenancy, where:

* Tenant A's GPU cannot talk to Tenant B's GPU

* But both can access shared storage

The correct solution is:

* Storage system # Full PKey membership

* Each tenant's GPU # Limited PKey membership

From the NVIDIA InfiniBand P_Key Partitioning Guide:

"A port with limited membership can only communicate with full members of the same PKey. It cannot communicate with other limited members, even within the same partition." This isolates tenants from each other, while allowing shared access to storage.

Incorrect Options:

* A permits tenant-to-tenant communication.

* B isolates everything, including access to storage.

* C prevents GPU access to storage.

Reference: NVIDIA InfiniBand - Multi-Tenant PKey Partitioning Design

問題 #79

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. NetQ
- D. Spectrum-X Manager

答案： C

解題說明：

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.

問題 #80

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NewDumps 應一些考友的需要，在第一時間內及時更新了 NCP-AIN 這門題目，更新之後的 NCP-AIN 擬真試題覆蓋率100%。考生可在反復練習這份真題的基礎上，多思考，多總結，通過 NCP-AIN 考試就沒有問題了。建議的是，一定要瞭解這門考試的最新動態資訊，這樣才能在考試中做到隨機應變。而我們就是一個可以滿足很多參加 NVIDIA NCP-AIN 認證考試的IT人士的需求的網站。

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