

Perfect NCP-AIN Frenquent Update—Find Shortcut to Pass NCP-AIN Exam



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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<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 3	<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.

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NVIDIA-Certified Professional AI Networking Sample Questions (Q11-Q16):

NEW QUESTION # 11

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. NetQ**
- C. GPU Cloud
- D. DOCA

Answer: B

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 # 12

What command sequence is used to identify the exact name of the server that runs as the master SM in a multi-node fabric?

- A. `sminfo`
`smpquery ND <lid>`
- B. `ibis`
`ibsim <lid>`
- C. `ibstat`
`sminfo <lid>`
- D. `sminfo`
`smpquery NI <lid>`

Answer: A

Explanation:

To identify the activeSubnet Manager (SM) node in an InfiniBand fabric, the correct command sequence is:

* `sminfo`
* Displays general information about the active SM in the fabric, including its LID.
* `smpquery ND <lid>`
* Resolves the Node Description (ND) at the given LID, revealing the exact hostname or label of the SM server.

From the InfiniBand Tools Guide:

"The `sminfo` utility provides the LID of the master SM. Use `smpquery ND <lid>` to resolve the node name hosting the SM." This two-step approach is standard for locating and validating the SM identity in fabric diagnostics.

Incorrect Options:

* B (NI) is an invalid query type.
* C and D do not identify SMs.

Reference: InfiniBand SM Tools - `sminfo` & `smpquery` Usage

NEW QUESTION # 13

What are the necessary steps to upgrade the MLNX-OS on InfiniBand Switches?

- A. Restart the switches, connect to the switches using Telnet, and use the 'update' command to perform the upgrade.
- B. Remove the switches from the switch fabric, fetch the MLNX-OS software image, and use the 'upgrade' command to perform the upgrade.
- **C. Connect to the switches using SSH, fetch the MLNX-OS software image, and use the 'install' command to perform the upgrade.**
- D. Power off the switches, insert the installation media, and power on the switches to start the upgrade process.

Answer: C

Explanation:

To upgrade the MLNX-OS on InfiniBand switches, the recommended procedure is as follows:

- * Connect to the switch via SSH: Establish a secure shell connection to the switch using its management IP address.
- * Fetch the MLNX-OS software image: Obtain the appropriate MLNX-OS software image from the official source or repository.
- * Use the 'install' command to perform the upgrade: Execute the 'install' command on the switch to initiate the upgrade process with the fetched software image.

This method ensures a smooth and efficient upgrade without the need for physical intervention or service disruption.

Reference Extracts from NVIDIA Documentation:

- * "Click on Systems # MLNX-OS Upgrade. Select the desired upgrade method (e.g. 'Install from local file'). Select your image and click 'Install Image'."

NEW QUESTION # 14

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

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

Answer: C

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 # 15

You are concerned about potential security threats and unexpected downtime in your InfiniBand data center.

Which UFM platform uses analytics to detect security threats, operational issues, and predict network failures in InfiniBand data centers?

- A. Host Agent
- B. Enterprise Platform
- C. Telemetry Platform
- D. **Cyber-AI Platform**

Answer: D

Explanation:

The NVIDIA UFM Cyber-AI Platform is specifically designed to enhance security and operational efficiency in InfiniBand data centers. It leverages AI-powered analytics to detect security threats, operational anomalies, and predict potential network failures. By analyzing real-time telemetry data, it identifies abnormal behaviors and performance degradation, enabling proactive maintenance and threat mitigation.

This platform integrates with existing UFM Enterprise and Telemetry services to provide a comprehensive view of the network's health and security posture. It utilizes machine learning algorithms to establish baselines for normal operations and detect deviations that may indicate security breaches or hardware issues.

Reference: NVIDIA UFM Cyber-AI Documentation v2.9.1

NEW QUESTION # 16

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