

Latest NCP-AIN Test Sample - NCP-AIN Exam Bible

NCP Exam 1 review Questions with Latest Update

What's the recommended AMDR for carbohydrates? - Answer-45-65% of energy intake

What's the recommended AMDR for Protein? - Answer-10-35% of energy intake

What's the recommended AMDR for Fat? - Answer-20-35% of energy intake

What is the current RDA/AI for males & females 19-50 for Protein? - Answer-0.8 g/kg body weight

What is the current RDA/AI for males 19-50yrs for Calcium (Ca)? - Answer-1000mg

What is the current RDA/AI for Females 19-50yrs for Calcium (Ca)? - Answer-1000mg

What is the current RDA/AI for males 19-50yrs for Iron (Fe) ? - Answer-8mg

What is the current RDA/AI for Females 19-50yrs for Iron (Fe) ? - Answer-18mg

What is the current RDA/AI for Males 19-50yrs for VitaminD IU? - Answer-600 (15)mcg

What is the current RDA/AI for Females 19-50yrs for VitaminD IU? - Answer-600 (15)mcg

What is the current RDA/AI for Males 19-50yrs for Potassium (K)? - Answer-3400mg

What is the current RDA/AI for Females 19-50yrs for Potassium (K)? - Answer-2600mg

What is the current RDA/AI for Females 19-50yrs for Vitamin C? - Answer-75mg/d

What is the current RDA/AI for males 19-50yrs for Vitamin C? - Answer-90mg/d

What's the difference between MNT and NCP? - Answer-NCP: systematic method used to critically think and make decision to address nutrition-related problems & provide safe & effective nutrition care. used in MNT.

MNT: nutrition care provided for clients w/ medical diagnosis or problem

Describe the standardized nutrition care process (NCP) and model - Answer-
Screening & referral
- assessment

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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<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.

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"> • 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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NVIDIA-Certified Professional AI Networking Sample Questions (Q58-Q63):

NEW QUESTION # 58

Which of the following NCCL environment variables enable SHARP aggregation with NCCL when using the NCCL-SHARP plugin?

Pick the 2 correct responses below

- A. NCCL_ALGO=CollNet
- B. NCCLSPECTRUM_ENABLE=1
- C. NCCL_COLLNET_ENABLE=1
- D. NCCL_SHARP_AUTOINIT

Answer: C,D

Explanation:

To enable SHARP (Scalable Hierarchical Aggregation and Reduction Protocol) aggregation using the NCCL- SHARP plugin, the following two environment variables are required:

* NCCL_COLLNET_ENABLE=1

Enables NCCL's support for CollNet (Collective Network) operations, including SHARP.

* NCCL_SHARP_AUTOINIT=1

Automatically initializes the SHARP plugin when available, activating SHARP-based collectives.

From the NVIDIA NCCL User Guide - SHARP Plugin Section:

"NCCL_COLLNET_ENABLE must be set to enable collective network acceleration features."

"NCCL_SHARP_AUTOINIT enables automatic SHARP plugin integration at NCCL runtime." Incorrect Options:

* B. NCCL_ALGO=CollNet- This variable controls the algorithm used for collectives but does not enable SHARP.

* C. NCCLSPECTRUM_ENABLE- This is not a documented NCCL variable.

Reference: NCCL SHARP Plugin Guide & NCCL User Guide - Environment Variables Section

NEW QUESTION # 59

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

- A. nv set bondbond1 interface member swp1-4
- B. nv set interface bond1 bond mode lacp
- C. nv set interface bond1 bond mlag enable
- D. nv set interface bond1 bond member swp1-4

Answer: B

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 # 60

What is the basic functionality of an IB Router?

- A. Connecting Ethernet switches to an InfiniBand fabric
- B. Connecting SAN to an InfiniBand fabric
- C. Connecting NVLink domains to an InfiniBand fabric
- D. Connecting two (or more) InfiniBand fabrics

Answer: D

Explanation:

An InfiniBand (IB) Router connects two or more InfiniBand subnets, making it possible for nodes in different subnets to communicate through route-managed communication.

From the official NVIDIA InfiniBand Routers Documentation:

"An InfiniBand router provides connectivity between two or more InfiniBand subnets, enabling communication between hosts that are not on the same subnet while preserving isolation and scalability."

* Ensures fabric scalability by allowing subnet segmentation.

* Uses LID routing across subnet managers (SMs).

* Essential in large clusters with thousands of nodes.

Incorrect Options:

* A and B are incorrect: InfiniBand does not connect directly to Ethernet or SANs without a gateway.

* C is unrelated: NVLink is a GPU interconnect, not tied to InfiniBand routers.

Reference: NVIDIA InfiniBand Routers Guide

NEW QUESTION # 61

What is the purpose of WJH (What Just Happened)?

- A. Provide contextual information regarding dropped packets in order to aid debugging.
- B. Send notifications of failed login attempts to a pre-defined Slack channel.
- C. Collate operating system logs and diagnose system crashes.
- D. Identify potential cyberattacks or unusual traffic patterns across the cluster.

Answer: A

Explanation:

NVIDIA's What Just Happened (WJH) is a feature that provides real-time visibility into network problems by analyzing all packets passing through the switch and alerting on performance issues caused by packet drops, congestion, high latency, or misconfigurations.

WJH retains the last packets that were dropped from the switch with complete packet headers and the actual drop reason. This enhances the ability to debug network problems, identify affected flows, and decrease time-to-repair.

NEW QUESTION # 62

You are investigating a performance issue in a Spectrum-X network and suspect there might be congestion problems.

Which component executes the congestion control algorithm in a Spectrum-X environment?

- A. NVIDIA NetQ

- B. Spectrum-4 switches
- C. NVIDIA DOCA software
- D. BlueField-3 SuperNICs

Answer: D

Explanation:

In the Spectrum-X architecture, BlueField-3 SuperNICs are responsible for executing the congestion control algorithm. They handle millions of congestion control events per second with microsecond reaction latency, applying fine-grained rate decisions to manage data flow effectively. This ensures optimal network performance by preventing congestion and packet loss.

Reference:NVIDIA Spectrum-X Networking Platform

NEW QUESTION # 63

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